

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P401639

Luminaire Tested: **ENV-SA1E-730-U-T2-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1E-730-U-T2-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4848 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 57.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

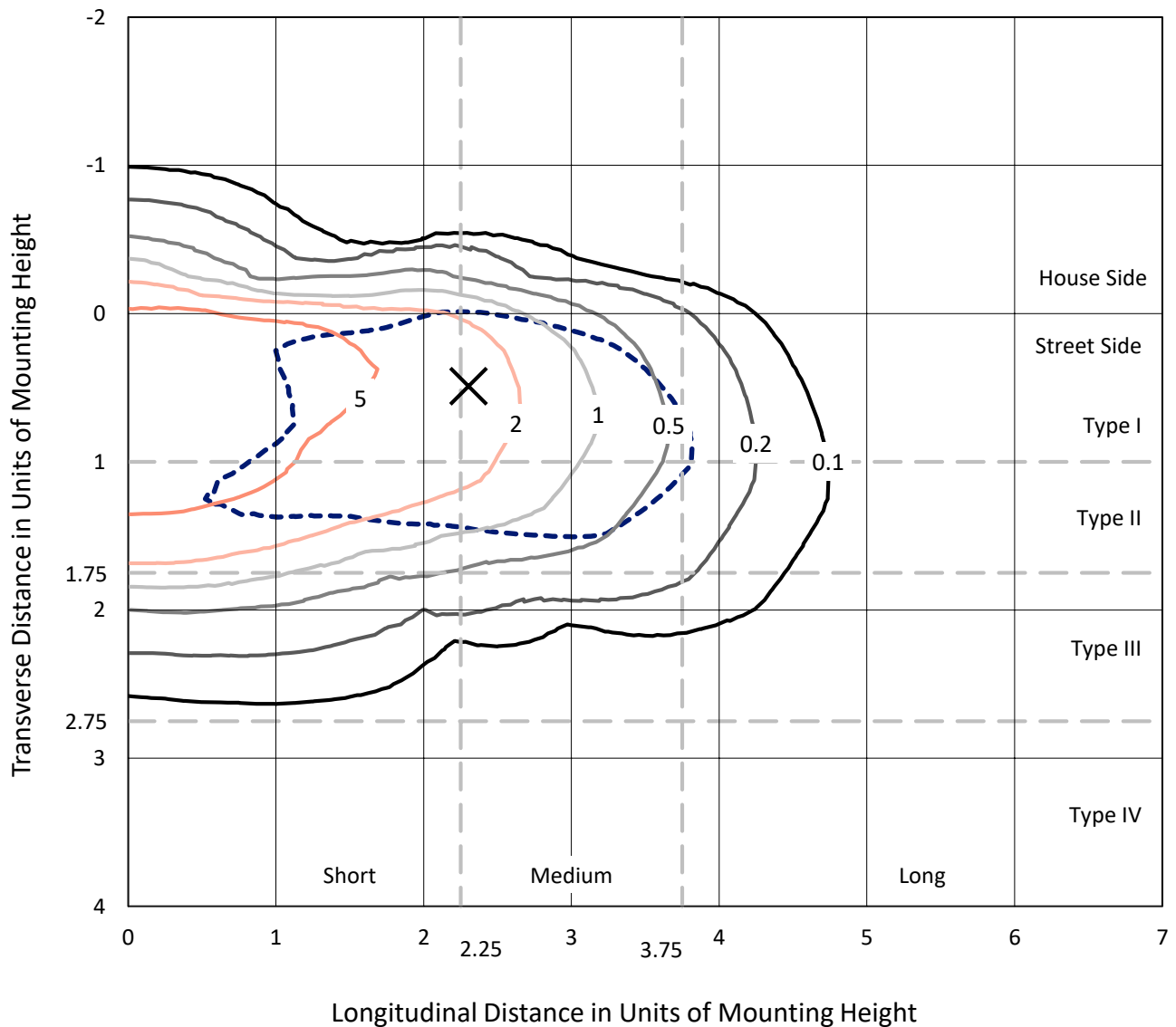


REPORT NUMBER: P401639

CATALOG NUMBER: ENV-SA1E-730-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

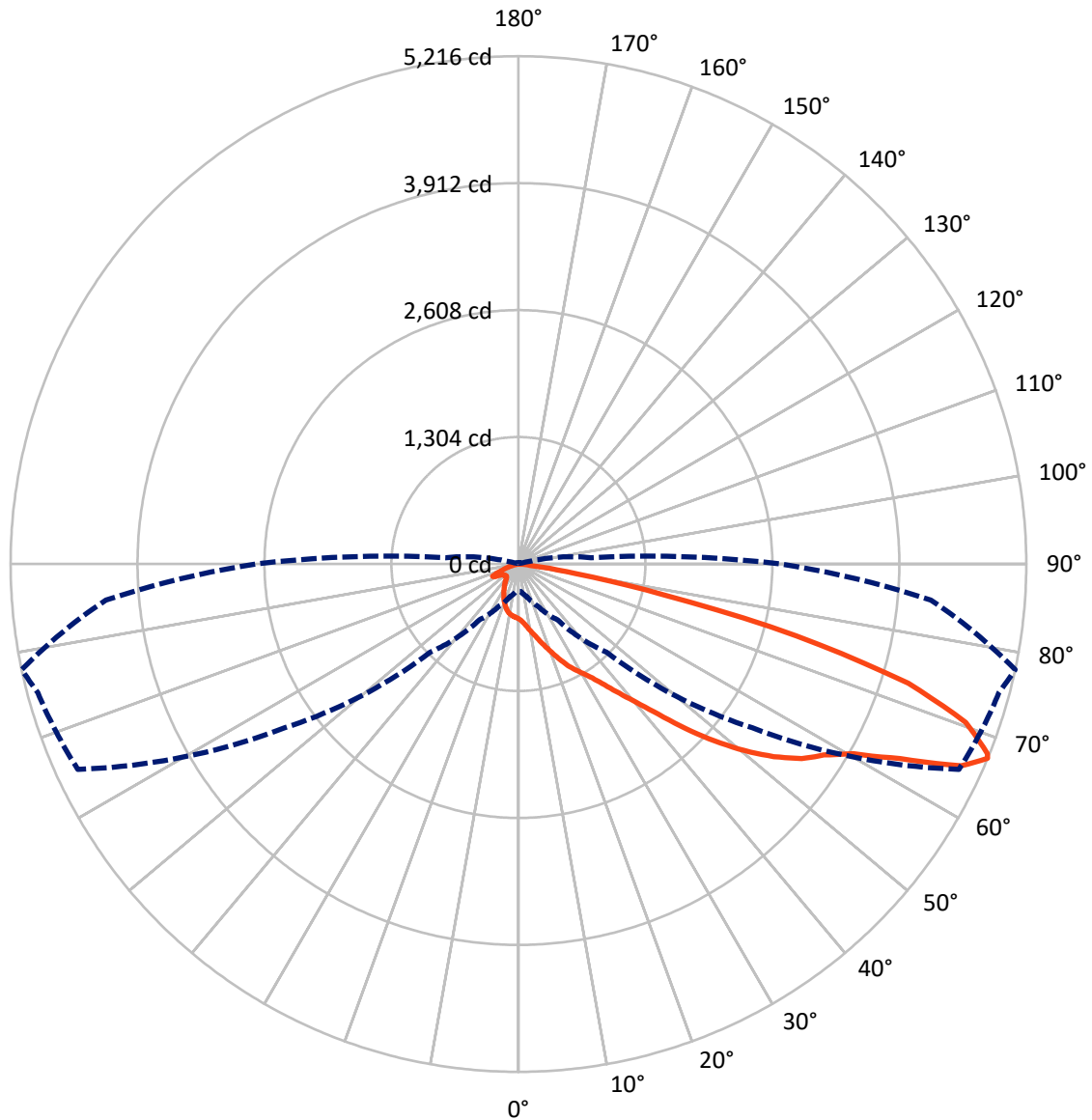


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P401639

CATALOG NUMBER: ENV-SA1E-730-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P401639

CATALOG NUMBER: ENV-SA1E-730-U-T2-HSS

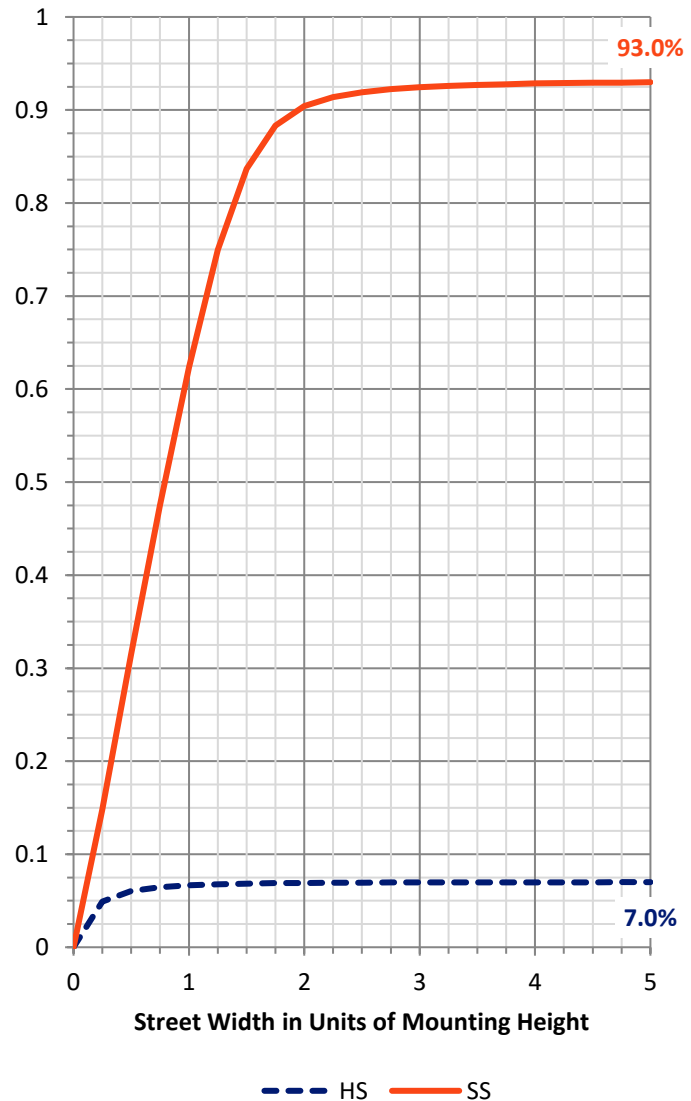
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	342.0	0.0	342.0
	% Fixture	7.1	0.0	7.1
<b>Street Side</b>	Lumens	4506.0	0.0	4506.0
	% Fixture	92.9	0.0	92.9
<b>Total</b>	Lumens	4848.0	0.0	4848.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.3	1.1
10°-20°	155.4	3.2
20°-30°	274.6	5.7
30°-40°	484.1	10.0
40°-50°	832.1	17.2
50°-60°	1252.5	25.8
60°-70°	1232.6	25.4
70°-80°	538.6	11.1
80°-90°	23.9	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4848.0	100.0
0°-180°	4848.0	100.0



REPORT NUMBER: P401639

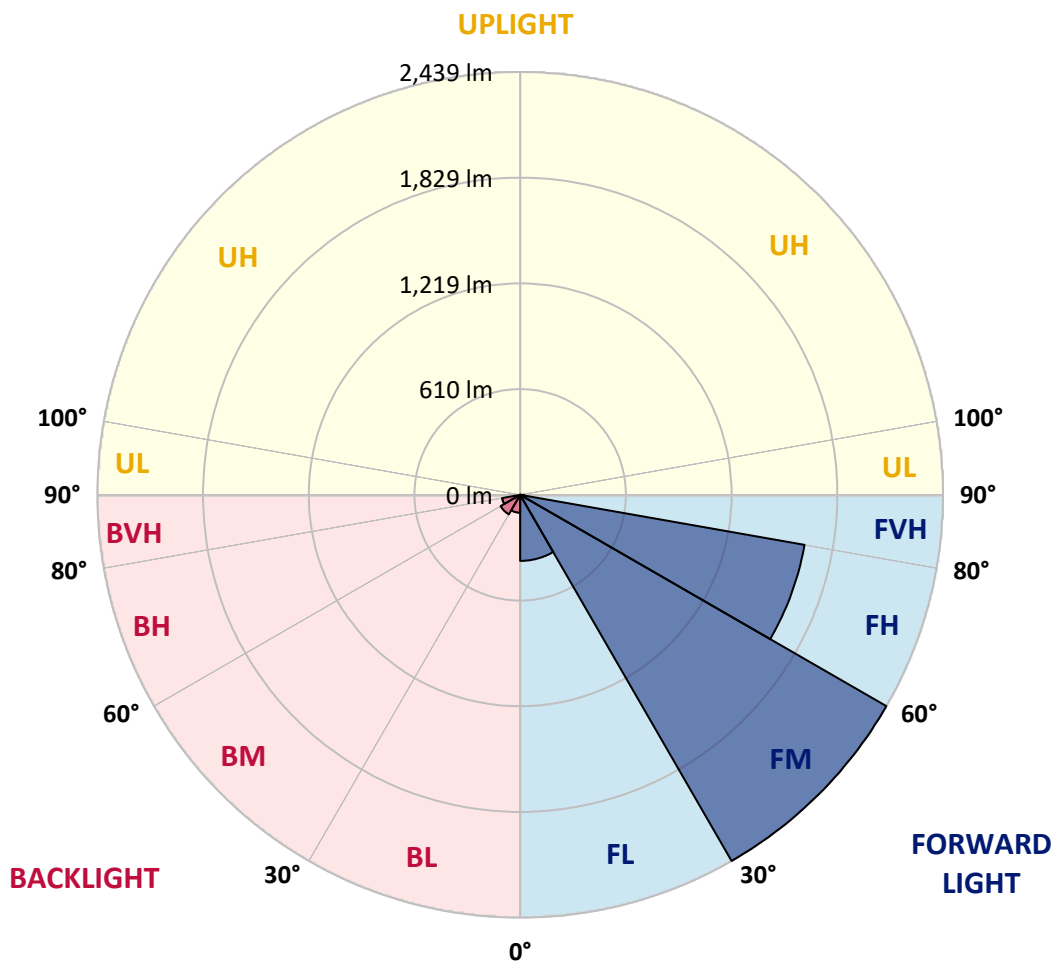
CATALOG NUMBER: ENV-SA1E-730-U-T2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.9	7.9			
FM (30°-60°)	2438.6	50.3			
FH (60°-80°)	1665.0	34.3			G1/1800
FVH (80°-90°)	21.4	0.4			G1/100
BL (0°-30°)	103.3	2.1	B0/110		
BM (30°-60°)	130.1	2.7	B0/220		
BH (60°-80°)	106.1	2.2	B0/110		G0/110
BVH (80°-90°)	2.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium





REPORT NUMBER: P401639

CATALOG NUMBER: ENV-SA1E-730-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	562.9	562.9	562.9	562.9	562.9	562.9	562.9	562.9	562.9	562.9	562.9
2.5°	645.8	648.5	644.9	642.1	634.8	625.7	616.6	603.0	588.4	582.9	573.8
5°	725.0	725.0	725.0	717.7	711.3	694.0	673.1	652.1	624.8	614.8	593.8
7.5°	766.9	767.8	770.5	770.5	766.9	755.1	732.3	708.6	667.6	654.0	620.3
10°	771.5	775.1	782.4	793.3	801.5	807.9	794.2	768.7	719.5	703.1	654.0
12.5°	759.6	761.4	773.3	793.3	819.7	846.1	847.1	831.6	776.9	754.2	694.9
15°	732.3	735.0	752.3	784.2	825.2	872.6	899.9	895.3	844.3	817.9	740.5
17.5°	688.6	691.3	713.2	760.5	820.6	889.9	948.2	970.9	910.8	885.3	786.9
20°	686.8	687.7	695.9	731.4	802.4	899.9	995.5	1049.3	991.9	964.5	841.6
22.5°	803.3	796.0	777.8	755.1	786.0	897.1	1038.3	1132.1	1092.1	1049.3	904.4
25°	933.6	936.3	916.3	862.5	823.4	892.6	1071.1	1225.9	1185.9	1143.1	969.1
27.5°	1070.2	1065.6	1048.3	999.2	933.6	925.4	1094.8	1301.5	1276.0	1224.1	1026.5
30°	1203.2	1199.5	1186.8	1136.7	1065.6	1010.1	1113.0	1369.9	1361.7	1304.3	1072.9
32.5°	1355.3	1361.7	1345.3	1279.7	1193.2	1124.9	1152.2	1441.8	1465.5	1395.4	1121.2
35°	1532.0	1532.0	1498.3	1438.2	1348.9	1253.3	1230.5	1521.1	1597.6	1522.0	1197.7
37.5°	1677.7	1689.6	1669.5	1583.0	1499.2	1399.0	1349.8	1618.5	1760.6	1684.1	1300.6
40°	1792.5	1812.5	1813.4	1727.8	1650.4	1584.8	1516.5	1756.0	1965.5	1867.2	1423.6
42.5°	1899.0	1902.7	1918.2	1869.0	1791.6	1774.3	1704.1	1919.1	2221.5	2105.8	1587.5
45°	2034.7	2042.0	2032.9	1996.5	1930.0	1952.8	1913.6	2125.8	2509.3	2411.8	1780.6
47.5°	2234.2	2251.5	2237.9	2172.3	2091.2	2134.0	2105.8	2331.7	2834.4	2716.0	1990.1
50°	2420.9	2434.6	2449.2	2428.2	2347.2	2306.2	2271.6	2549.4	3113.1	3013.0	2196.0
52.5°	2441.0	2453.7	2533.9	2607.6	2661.4	2553.9	2445.5	2769.8	3370.9	3287.1	2384.5
55°	2310.7	2318.9	2452.8	2598.5	2845.4	2881.8	2701.5	2987.5	3586.8	3529.4	2511.1
57.5°	1948.2	1982.8	2173.2	2396.3	2799.8	3076.7	3064.9	3240.7	3727.0	3700.6	2674.1
60°	1279.7	1317.9	1545.6	1883.6	2464.7	3024.8	3463.8	3620.5	3923.8	3952.9	2960.1
62.5°	663.1	707.7	908.1	1207.7	1786.1	2634.1	3599.5	4244.4	4300.8	4400.1	3470.2
65°	378.9	388.0	488.2	707.7	1105.7	1886.3	3436.5	4861.9	4797.2	4998.5	4121.4
67°	281.4	281.4	351.6	480.9	700.4	1282.4	2931.0	4992.1	5109.6	5216.2	4252.6
67.5°	252.3	266.0	326.1	443.6	628.5	1137.6	2742.4	4957.5	5129.7	5196.2	4207.0
70°	173.1	182.2	234.1	317.9	423.5	592.0	1797.9	4384.6	4942.1	4874.7	3812.6
72.5°	103.8	107.5	154.8	228.6	316.1	317.0	980.9	3328.1	4187.9	4187.0	3114.1
75°	64.7	68.3	91.1	153.0	221.3	198.6	453.6	2264.3	3007.5	2949.2	2086.7
77.5°	36.4	41.9	54.6	83.8	140.3	126.6	191.3	1268.8	1624.9	1524.7	1036.5
80°	14.6	17.3	31.0	40.1	79.2	75.6	78.3	446.3	657.6	592.9	347.0
82.5°	3.6	4.6	10.9	19.1	31.0	31.0	24.6	122.0	155.7	144.8	89.3
85°	0.0	0.0	0.9	0.9	0.9	1.8	6.4	13.7	16.4	19.1	14.6
87.5°	0.0	0.0	0.0	0.9	0.9	0.9	1.8	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P401639

CATALOG NUMBER: ENV-SA1E-730-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	562.9	562.9	562.9	562.9	562.9	562.9	562.9	562.9	562.9	562.9	562.9
2.5°	566.5	560.1	547.4	533.7	520.1	509.1	500.0	487.3	485.5	485.5	485.5
5°	578.4	563.8	534.6	505.5	476.4	449.9	430.8	415.3	401.7	397.1	400.8
7.5°	595.7	569.3	518.3	467.2	421.7	384.4	357.0	335.2	325.2	319.7	315.1
10°	618.4	577.5	496.4	421.7	364.3	319.7	290.5	269.6	259.6	253.2	254.1
12.5°	643.0	583.8	469.1	372.5	308.8	267.8	243.2	225.9	209.5	199.5	202.2
15°	667.6	588.4	435.4	327.0	266.0	229.5	194.9	163.9	153.0	151.2	150.3
17.5°	694.9	587.5	398.0	284.2	229.5	178.5	143.9	140.3	139.4	139.4	138.4
20°	723.2	582.9	355.2	248.7	193.1	135.7	130.2	128.4	125.7	124.8	123.9
22.5°	754.2	574.7	316.1	217.7	143.9	123.9	116.6	111.1	106.6	103.8	104.7
25°	782.4	559.2	277.8	188.5	123.0	111.1	101.1	92.9	88.3	84.7	85.6
27.5°	801.5	531.9	245.0	152.1	112.9	98.4	86.5	78.3	72.0	69.2	69.2
30°	803.3	492.7	215.9	124.8	102.9	86.5	73.8	64.7	61.0	59.2	58.3
32.5°	801.5	452.7	194.0	114.8	93.8	75.6	62.8	56.5	52.8	51.0	51.0
35°	810.6	411.7	174.0	105.7	83.8	66.5	55.6	49.2	46.5	44.6	44.6
37.5°	837.9	383.5	153.0	96.5	74.7	58.3	50.1	44.6	41.9	40.1	40.1
40°	875.3	359.8	127.5	87.4	65.6	52.8	45.5	41.0	37.3	35.5	35.5
42.5°	940.9	350.7	106.6	78.3	57.4	47.4	41.9	36.4	32.8	31.0	31.0
45°	1038.3	355.2	97.5	70.1	51.9	42.8	37.3	31.9	28.2	27.3	27.3
47.5°	1145.8	374.3	91.1	62.8	47.4	40.1	33.7	28.2	24.6	23.7	23.7
50°	1266.0	404.4	85.6	55.6	42.8	36.4	30.1	24.6	21.9	20.9	20.9
52.5°	1380.8	442.7	80.2	50.1	40.1	32.8	26.4	21.9	20.0	19.1	19.1
55°	1468.2	467.2	75.6	46.5	37.3	30.1	23.7	20.9	18.2	17.3	17.3
57.5°	1590.3	508.2	70.1	41.9	33.7	27.3	21.9	19.1	16.4	16.4	16.4
60°	1838.0	618.4	61.9	38.3	30.1	24.6	20.9	17.3	15.5	14.6	14.6
62.5°	2284.3	800.6	53.7	35.5	26.4	21.9	18.2	15.5	13.7	11.8	11.8
65°	2714.2	876.2	45.5	31.0	23.7	19.1	16.4	13.7	10.0	8.2	8.2
67°	2690.5	749.6	38.3	26.4	20.0	17.3	13.7	10.9	7.3	4.6	4.6
67.5°	2626.8	697.7	37.3	25.5	19.1	16.4	13.7	10.0	6.4	3.6	3.6
70°	2232.4	488.2	29.1	20.0	16.4	14.6	10.9	7.3	3.6	1.8	1.8
72.5°	1813.4	387.1	22.8	16.4	13.7	10.9	9.1	4.6	2.7	0.9	0.9
75°	1282.4	237.7	20.0	14.6	10.9	8.2	7.3	4.6	2.7	1.8	0.9
77.5°	633.0	109.3	16.4	12.8	10.0	8.2	6.4	5.5	4.6	3.6	1.8
80°	185.8	35.5	10.9	9.1	9.1	8.2	7.3	6.4	5.5	4.6	2.7
82.5°	41.9	12.8	3.6	4.6	6.4	6.4	6.4	4.6	3.6	1.8	0.9
85°	5.5	2.7	2.7	2.7	3.6	3.6	2.7	1.8	1.8	0.0	0.0
87.5°	1.8	1.8	1.8	2.7	2.7	2.7	1.8	0.9	0.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)