

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: P401281

Luminaire Tested: **ENV-SA1C-730-U-T3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-730-U-T3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3157 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 33.3
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

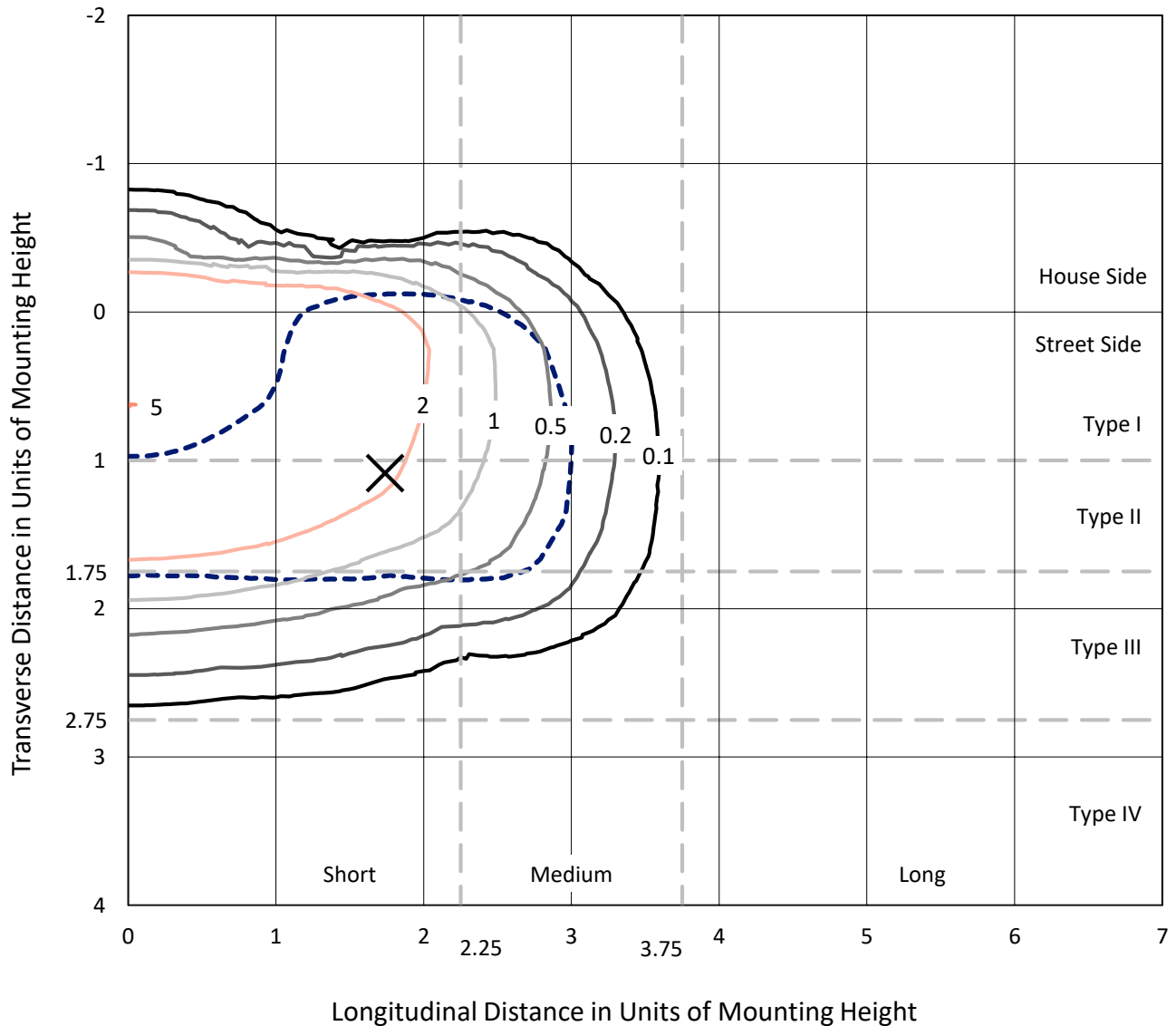


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

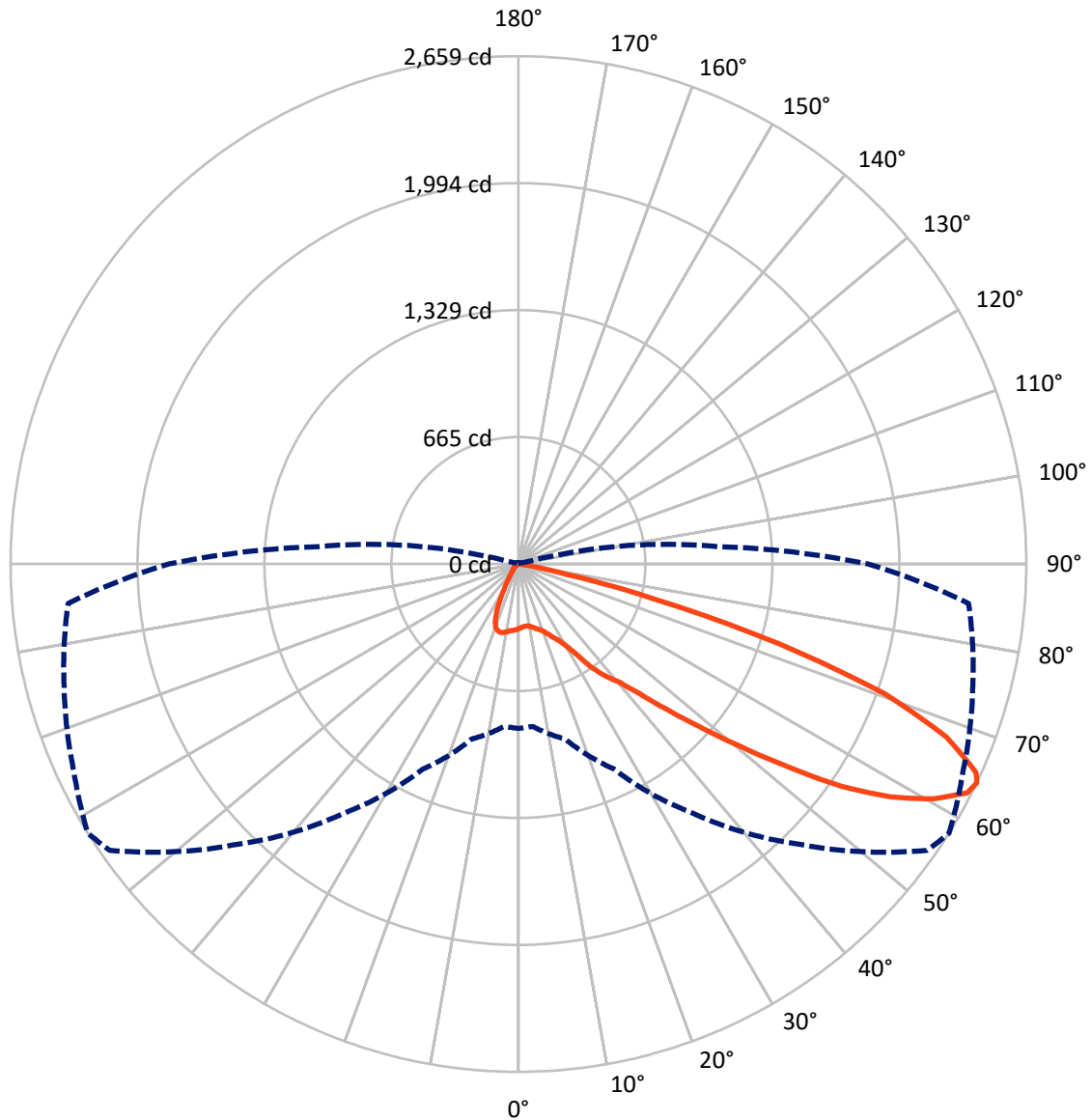


Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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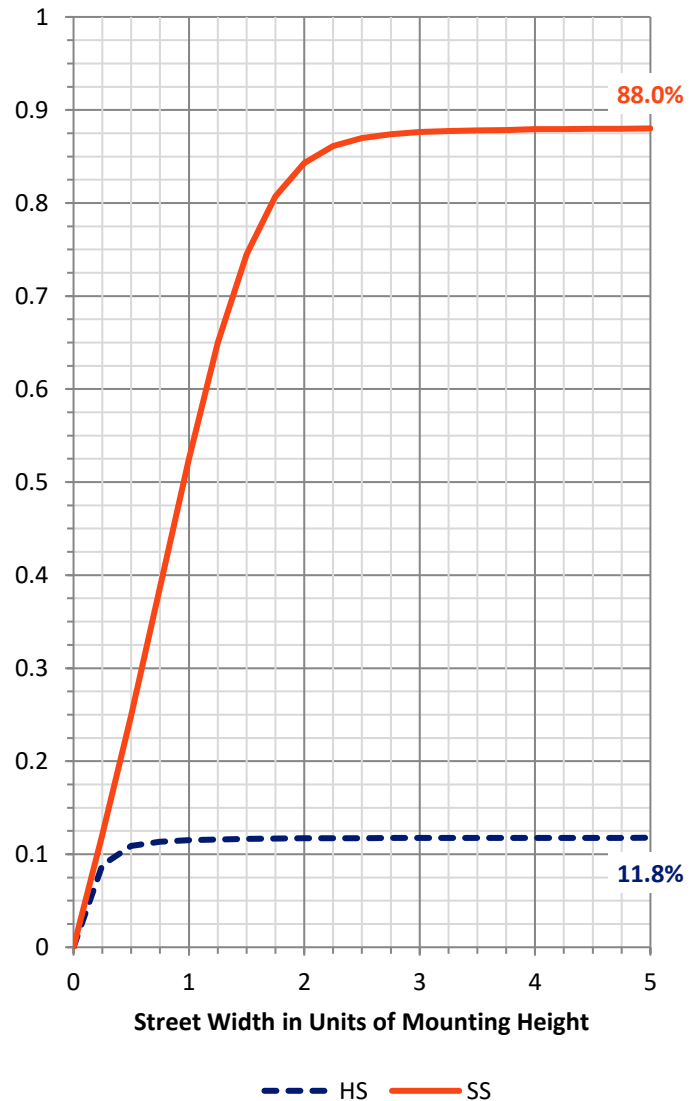
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	376.4	0.0	376.4
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	2780.6	0.0	2780.6
	% Fixture	88.1	0.0	88.1
Total	Lumens	3157.0	0.0	3157.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.0	1.0
10°-20°	93.1	3.0
20°-30°	167.4	5.3
30°-40°	293.4	9.3
40°-50°	536.4	17.0
50°-60°	917.7	29.1
60°-70°	890.2	28.2
70°-80°	220.5	7.0
80°-90°	6.3	0.2
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°	3157.0	100.0
0°-180°	3157.0	100.0



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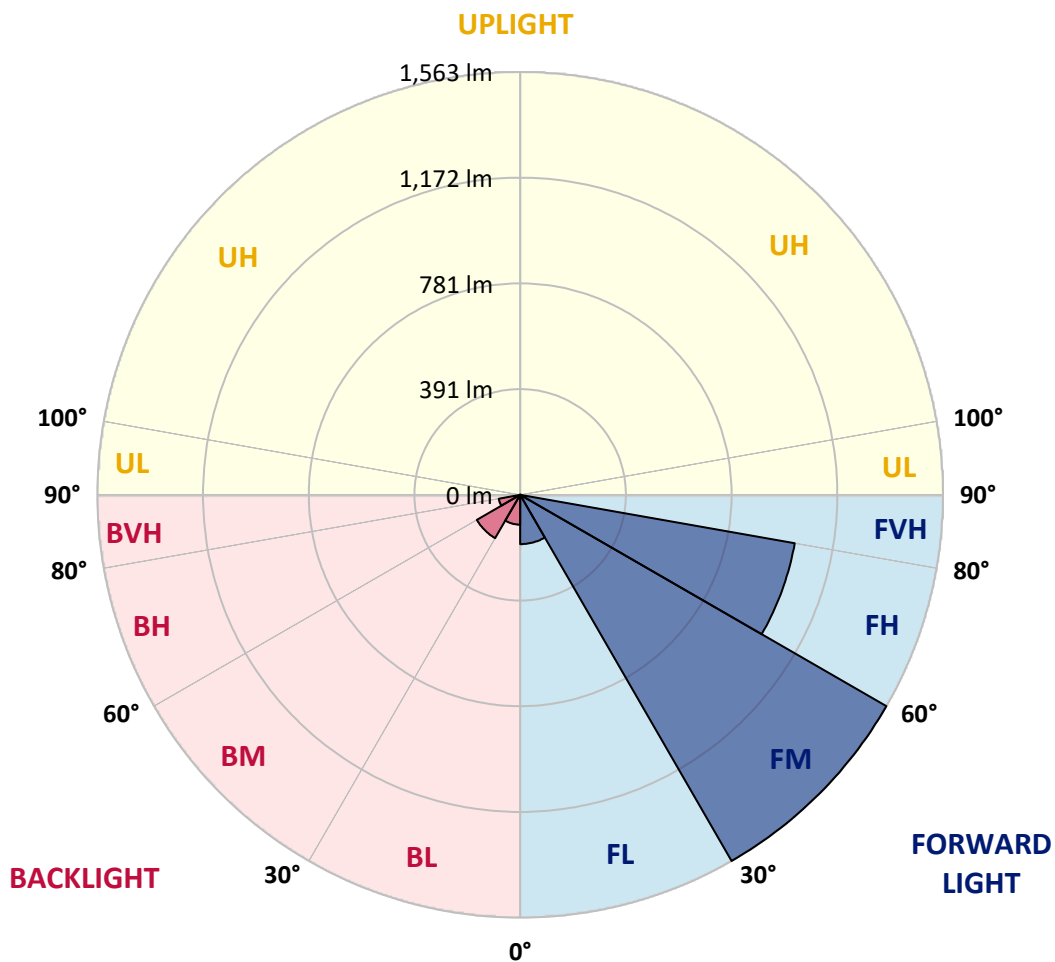
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	182.3	5.8			
FM	(30°-60°)	1562.7	49.5			
FH	(60°-80°)	1030.4	32.6			G1/1800
FVH	(80°-90°)	5.3	0.2			G0/10
BL	(0°-30°)	110.2	3.5	B1/500		
BM	(30°-60°)	184.9	5.9	B0/220		
BH	(60°-80°)	80.4	2.5	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	338.2	338.2	338.2	338.2	338.2	338.2	338.2	338.2	338.2	338.2	338.2
2.5°	324.1	324.1	325.3	325.9	327.7	329.4	331.7	332.3	333.5	336.4	337.6
5°	306.6	307.2	308.4	311.3	315.4	320.1	325.9	327.7	332.3	338.2	342.3
7.5°	299.6	300.2	302.0	305.5	310.7	317.7	324.7	327.1	333.5	342.8	348.7
10°	298.5	298.5	300.8	306.0	312.5	321.2	328.8	331.7	340.5	351.6	360.9
12.5°	298.5	298.5	301.4	307.8	315.4	326.5	337.0	341.1	351.0	365.0	376.7
15°	303.7	304.9	306.6	310.7	319.5	331.7	346.3	351.0	363.3	380.2	394.8
17.5°	341.1	339.9	334.1	328.8	327.1	337.6	355.1	361.5	379.6	401.2	417.0
20°	413.5	412.9	402.4	376.7	353.9	348.1	368.5	376.1	402.4	431.0	442.7
22.5°	501.1	504.0	487.7	453.2	406.5	376.7	388.4	398.9	432.8	467.2	474.3
25°	588.1	591.6	576.5	533.2	476.0	424.0	415.8	425.2	463.7	498.2	495.3
27.5°	690.9	688.0	672.8	623.8	557.2	487.7	452.6	454.4	484.2	522.7	513.4
30°	766.3	762.2	747.6	714.3	651.8	572.4	505.2	499.9	508.7	551.3	541.4
32.5°	835.2	838.1	827.0	782.6	723.6	659.4	584.1	570.0	566.5	602.7	586.4
35°	903.5	902.9	898.9	859.7	801.9	741.2	678.1	668.2	667.0	702.0	657.6
37.5°	985.3	981.2	973.6	933.9	887.8	829.9	762.8	747.0	744.1	751.1	699.1
40°	1072.9	1078.2	1065.9	1024.4	974.2	931.0	836.9	813.0	793.1	813.6	780.3
42.5°	1203.2	1207.2	1185.6	1157.0	1092.2	1051.9	956.7	924.0	914.6	945.6	908.2
45°	1366.7	1359.1	1344.5	1324.6	1270.9	1209.6	1110.3	1079.3	1069.4	1122.6	1061.2
47.5°	1494.0	1492.8	1493.4	1489.3	1481.2	1407.6	1289.6	1268.6	1258.6	1335.1	1267.4
50°	1574.6	1579.3	1599.1	1650.0	1687.3	1656.4	1518.0	1492.3	1484.7	1564.1	1472.4
52.5°	1635.3	1646.4	1679.7	1780.2	1899.9	1910.4	1796.0	1759.8	1742.2	1764.4	1637.1
55°	1666.3	1671.6	1722.4	1870.7	2058.2	2133.5	2085.7	2055.3	1984.6	1942.6	1830.4
57.5°	1593.9	1585.7	1673.3	1862.0	2140.0	2313.4	2333.9	2299.4	2186.1	2153.4	2065.2
60°	1404.1	1400.6	1499.3	1725.9	2068.7	2355.5	2517.9	2496.2	2392.3	2314.6	2231.7
62.5°	1071.2	1077.0	1181.5	1412.2	1814.7	2234.6	2620.1	2637.6	2527.2	2411.6	2354.9
64°	860.3	853.3	949.1	1183.9	1592.1	2073.4	2612.5	2658.6	2568.1	2462.4	2366.0
65°	722.5	707.3	799.0	1011.6	1404.1	1956.6	2558.7	2632.9	2571.0	2474.6	2325.7
67.5°	380.2	388.4	427.5	614.4	947.9	1479.4	2304.1	2416.2	2441.3	2307.0	2026.7
70°	170.5	171.7	196.8	313.6	524.5	959.6	1853.2	2034.8	2048.9	1895.3	1468.3
72.5°	56.7	57.2	87.0	125.6	220.2	444.5	1251.6	1416.9	1447.3	1228.8	796.6
75°	35.0	36.2	46.1	67.8	102.2	155.4	634.3	746.4	752.8	544.9	289.7
77.5°	22.2	23.4	28.0	40.3	56.1	59.0	207.9	251.7	285.0	196.2	89.9
80°	14.0	14.0	18.1	24.5	29.2	25.1	56.7	74.8	89.9	66.0	30.4
82.5°	5.3	5.3	9.3	13.4	12.3	8.8	15.2	19.9	34.5	32.7	14.6
85°	0.0	0.0	0.6	1.2	0.6	1.2	2.9	4.1	6.4	9.3	4.7
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	338.2	338.2	338.2	338.2	338.2	338.2	338.2	338.2	338.2	338.2	338.2
2.5°	339.3	340.5	342.8	343.4	344.0	342.3	344.0	342.3	343.4	343.4	343.4
5°	344.6	346.3	348.1	348.7	348.1	344.0	345.2	342.3	341.7	341.7	341.7
7.5°	351.6	353.4	356.3	354.5	351.0	345.2	344.6	340.5	338.8	338.8	339.3
10°	364.4	366.2	367.4	363.9	356.9	348.1	341.7	332.9	328.8	327.1	327.1
12.5°	380.8	382.6	382.0	376.1	363.3	345.2	327.1	310.1	297.9	293.2	288.5
15°	398.3	400.7	399.5	387.2	362.7	330.6	295.5	255.8	231.3	215.5	212.6
17.5°	418.8	421.1	415.3	393.1	353.9	299.6	233.0	179.3	143.7	130.2	129.7
20°	443.9	442.7	428.7	393.7	338.2	242.4	155.9	112.1	97.0	93.4	92.9
22.5°	472.5	467.2	441.5	390.1	294.9	164.7	100.5	88.8	87.0	85.9	85.9
25°	488.9	479.5	446.2	380.2	227.2	105.1	85.3	82.9	80.6	78.3	77.7
27.5°	501.7	487.7	448.0	347.5	151.3	80.6	77.1	74.8	71.3	67.8	67.2
30°	525.1	504.0	450.9	290.3	92.9	68.9	67.2	63.1	57.8	54.3	53.1
32.5°	567.1	536.7	462.6	217.3	67.8	60.7	56.1	50.8	45.0	41.5	41.5
35°	612.1	567.7	468.4	143.1	59.0	53.1	46.1	39.7	34.5	31.5	31.0
37.5°	653.6	612.1	466.7	87.6	52.6	45.6	38.0	31.5	26.9	24.5	24.5
40°	738.2	689.8	442.7	60.2	46.1	38.5	31.0	24.5	21.6	19.9	19.9
42.5°	859.1	775.0	389.6	51.4	40.3	32.1	24.5	20.4	18.1	16.4	16.4
45°	994.6	869.1	310.7	46.1	35.0	26.9	20.4	16.9	14.6	14.0	14.0
47.5°	1172.2	983.0	228.4	41.5	30.4	22.8	16.9	14.0	12.8	12.3	12.3
50°	1327.6	1075.2	155.9	36.2	26.9	19.3	14.6	12.8	11.7	11.1	11.1
52.5°	1468.9	1139.5	102.8	31.5	23.9	15.8	13.4	11.7	11.1	10.5	10.5
55°	1635.3	1188.5	69.5	27.5	21.0	14.6	12.8	11.7	10.5	10.5	9.9
57.5°	1776.7	1217.8	49.6	23.4	18.7	13.4	12.3	11.1	9.9	9.3	9.3
60°	1859.0	1183.3	36.2	20.4	16.4	12.3	11.1	9.9	9.3	8.8	8.8
62.5°	1881.8	1116.7	28.0	17.5	14.0	11.1	9.9	8.8	8.2	7.6	7.6
64°	1829.3	1045.5	23.9	15.2	12.3	9.9	9.3	8.2	7.0	5.8	5.8
65°	1755.1	979.5	21.6	14.0	11.1	9.3	8.8	7.6	5.8	4.7	4.7
67.5°	1462.5	780.9	17.5	11.7	8.8	8.2	7.0	5.8	4.1	2.9	2.9
70°	1038.4	546.1	13.4	9.3	7.6	7.6	6.4	4.7	2.3	1.2	1.2
72.5°	549.6	283.8	11.1	7.6	5.8	5.8	5.3	2.9	1.8	1.2	0.6
75°	192.2	93.4	9.3	6.4	5.3	4.1	3.5	2.3	1.8	1.2	0.6
77.5°	58.4	31.0	8.2	6.4	4.7	3.5	4.1	3.5	3.5	2.3	1.8
80°	18.7	11.1	4.7	4.1	4.7	4.7	4.1	3.5	4.1	2.9	2.3
82.5°	7.0	4.1	1.8	2.3	2.3	2.9	2.9	2.3	1.8	0.6	0.0
85°	2.3	1.8	1.2	1.8	1.8	1.8	1.2	1.2	0.6	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.0	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)