

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: P401111

Luminaire Tested: **ENV-SA1B-735-U-SL4-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1B-735-U-SL4-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2642 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

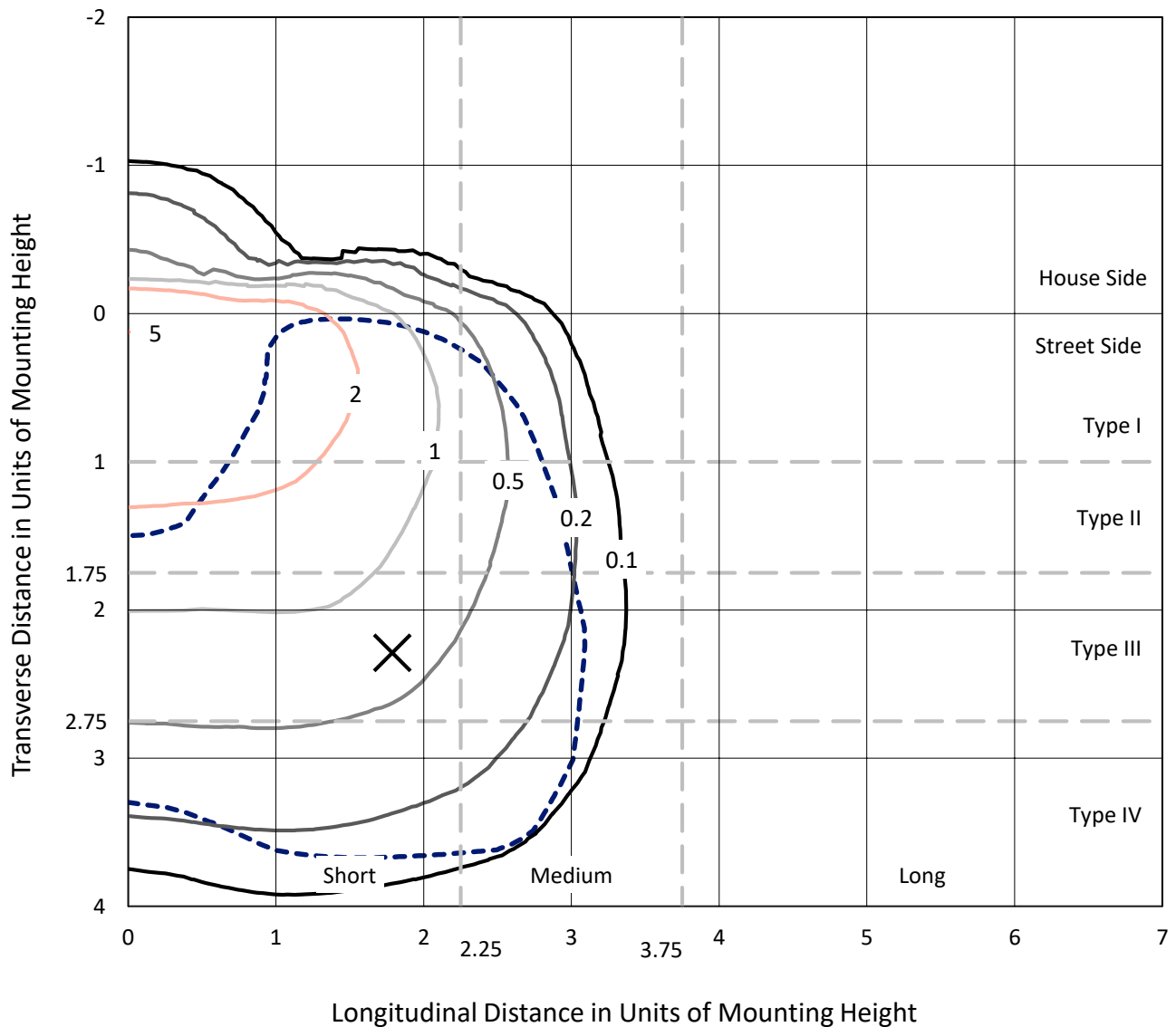
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

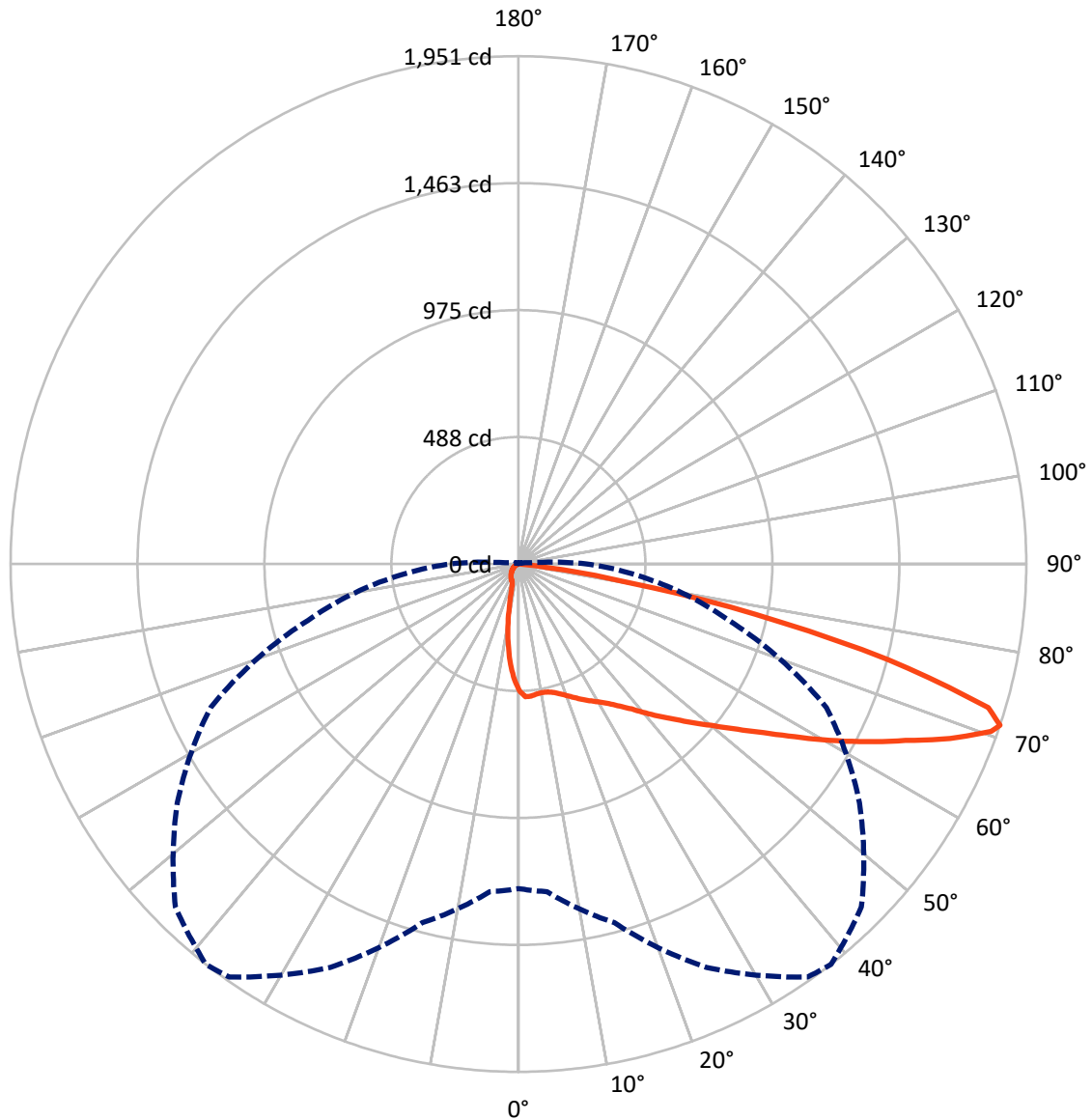


Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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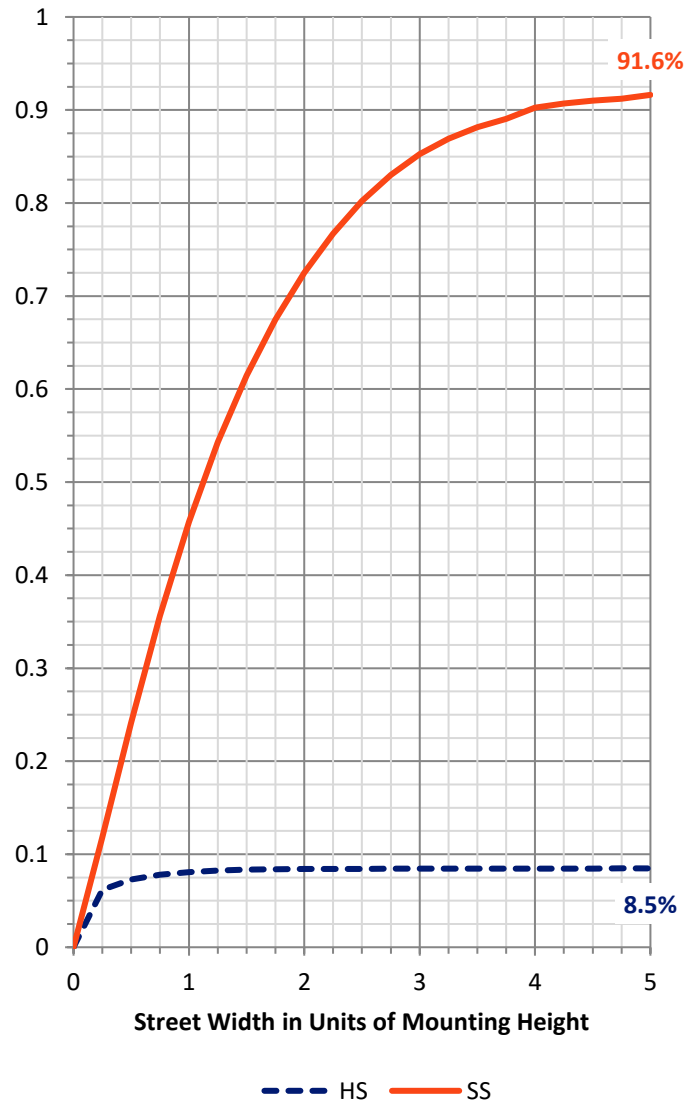
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	225.7	0.0	225.7
	% Fixture	8.5	0.0	8.5
Street Side	Lumens	2416.3	0.0	2416.3
	% Fixture	91.5	0.0	91.5
Total	Lumens	2642.0	0.0	2642.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	1.6
10°-20°	99.6	3.8
20°-30°	159.7	6.0
30°-40°	243.0	9.2
40°-50°	378.7	14.3
50°-60°	553.7	21.0
60°-70°	710.2	26.9
70°-80°	434.1	16.4
80°-90°	21.8	0.8
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°	2642.0	100.0
0°-180°	2642.0	100.0



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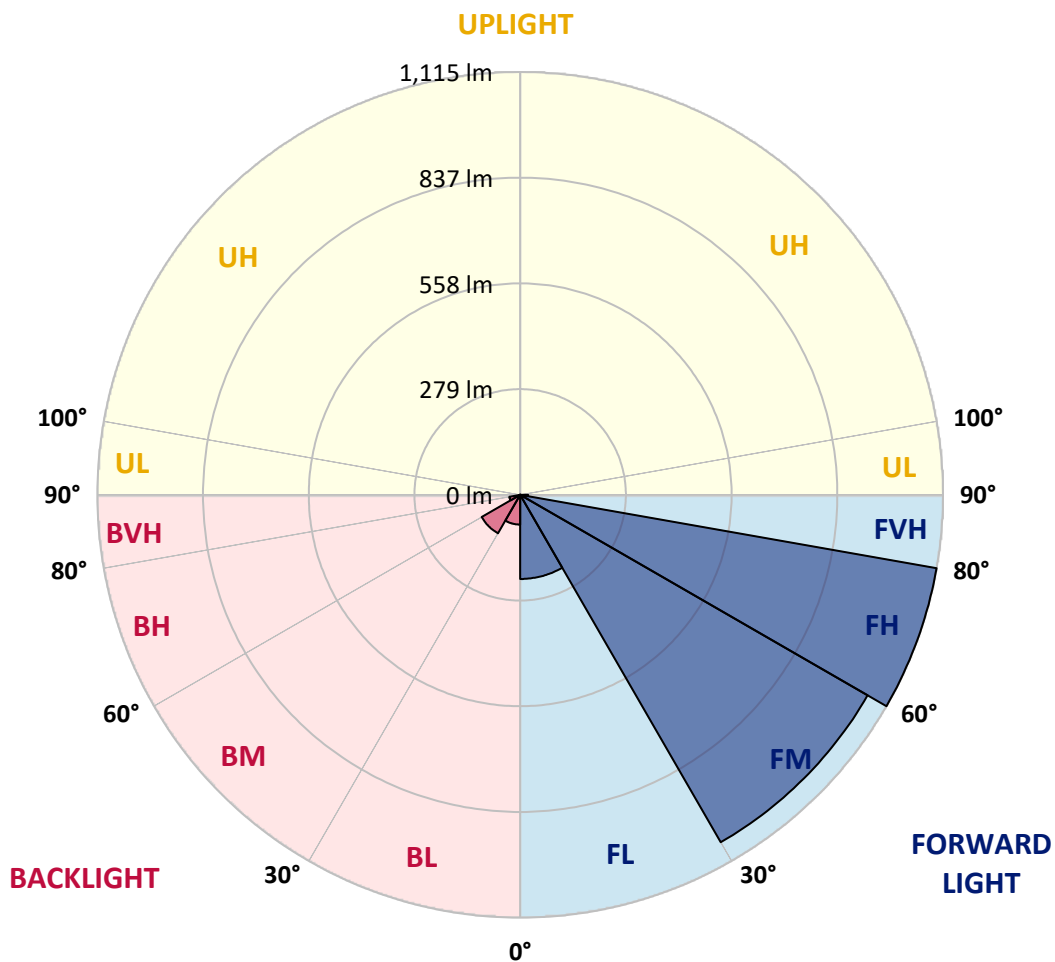
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.0	8.4			
FM (30°-60°)	1058.2	40.1			
FH (60°-80°)	1115.3	42.2			G1/1800
FVH (80°-90°)	20.8	0.8			G1/100
BL (0°-30°)	78.5	3.0	B0/110		
BM (30°-60°)	117.2	4.4	B0/220		
BH (60°-80°)	29.0	1.1	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: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1
2.5°	515.9	514.5	515.9	514.5	511.8	510.4	508.6	503.5	499.0	493.5	485.2
5°	516.8	515.9	515.9	514.1	510.9	509.5	507.7	502.6	496.7	488.4	476.1
7.5°	511.8	511.3	510.4	508.6	504.9	504.0	502.6	496.7	490.7	482.0	466.9
10°	503.5	504.5	504.0	504.0	502.6	501.7	500.8	493.9	487.5	477.4	461.4
12.5°	495.8	496.7	499.0	502.6	504.0	504.5	504.5	497.6	489.8	478.8	462.3
15°	490.7	492.6	499.0	506.3	510.4	511.8	513.2	505.8	496.7	484.8	467.4
17.5°	489.3	492.1	504.5	515.9	523.7	524.6	524.6	515.4	505.8	492.1	473.3
20°	493.9	497.6	513.6	529.6	539.2	540.2	538.3	526.4	515.0	499.9	478.4
22.5°	507.7	510.9	529.2	547.9	557.1	558.0	553.9	537.4	525.1	512.7	485.2
25°	531.5	533.3	553.0	570.8	575.9	577.2	570.4	550.7	536.5	525.1	494.8
27.5°	563.0	564.0	581.8	595.1	596.0	595.5	588.2	567.6	553.4	543.8	509.5
30°	596.0	597.4	612.0	620.7	617.1	615.2	608.8	586.8	574.0	566.7	530.5
32.5°	626.7	628.0	644.1	648.6	640.4	639.0	634.5	611.1	600.1	603.8	560.8
35°	656.9	656.9	675.2	677.5	670.2	670.2	670.2	642.2	640.4	652.8	602.9
37.5°	683.9	688.5	707.7	706.8	705.4	706.3	709.1	688.0	694.4	715.5	658.3
40°	706.8	712.7	738.4	740.7	746.6	751.6	755.8	744.8	759.9	794.2	729.2
42.5°	727.4	734.2	767.2	777.7	794.2	801.1	808.9	806.1	839.5	902.2	819.9
45°	753.9	761.3	795.1	820.3	843.2	852.4	869.7	881.6	937.0	1008.4	917.8
47.5°	789.2	794.2	825.3	865.2	896.3	912.8	939.8	970.5	1037.7	1121.1	1005.2
50°	837.2	837.7	861.0	912.8	959.0	976.9	1023.6	1063.4	1147.6	1220.4	1068.4
52.5°	890.3	887.6	905.9	971.4	1030.0	1054.2	1109.2	1164.5	1249.2	1292.3	1096.8
55°	940.7	942.1	953.5	1033.6	1119.2	1142.6	1212.2	1268.5	1342.2	1336.2	1112.4
57.5°	998.8	998.4	1013.0	1101.8	1223.6	1250.6	1323.4	1369.6	1398.5	1367.8	1115.1
60°	1053.8	1052.4	1074.8	1183.3	1334.8	1374.7	1440.1	1438.3	1454.8	1387.9	1112.8
62.5°	1102.7	1106.0	1145.3	1278.1	1459.3	1502.4	1535.3	1512.4	1517.0	1411.3	1084.4
65°	1162.3	1168.2	1231.8	1393.0	1613.2	1633.7	1646.6	1609.5	1563.7	1392.5	998.4
67.5°	1237.3	1255.2	1344.9	1562.3	1773.4	1787.6	1788.0	1668.1	1561.9	1297.8	839.5
70°	1267.1	1285.9	1428.7	1696.5	1908.4	1926.3	1870.4	1658.9	1438.7	1016.2	566.7
71°	1246.5	1263.4	1426.4	1709.3	1936.3	1950.5	1863.1	1599.0	1304.6	837.2	439.0
72.5°	1097.7	1141.7	1338.5	1628.7	1886.4	1886.9	1744.5	1457.5	1037.7	522.8	220.6
75°	592.8	645.9	981.0	1239.6	1455.2	1466.7	1342.2	1012.1	502.2	135.5	53.6
77.5°	195.5	220.2	439.9	643.6	912.8	930.6	820.8	449.5	158.4	45.8	27.9
80°	122.7	125.4	148.8	270.5	406.0	421.1	337.8	182.2	71.4	25.2	19.2
82.5°	20.6	24.7	70.0	79.7	143.3	113.5	76.9	92.9	33.4	11.4	16.5
85°	0.0	0.0	0.5	0.5	2.3	0.5	0.5	18.8	1.8	1.8	8.7
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1
2.5°	481.6	477.9	470.6	462.8	453.2	444.9	442.2	436.2	433.5	431.2	431.2
5°	468.3	461.9	446.3	430.3	414.7	398.3	383.1	369.0	362.1	352.5	357.1
7.5°	457.3	446.3	424.3	399.2	367.1	334.6	309.4	287.5	269.2	263.2	259.1
10°	449.5	435.8	403.7	365.3	318.6	272.4	233.5	197.3	176.2	163.4	163.4
12.5°	448.6	431.2	389.6	330.5	263.2	200.5	152.4	118.1	101.2	93.4	92.9
15°	451.8	430.8	376.7	298.9	212.4	139.2	95.2	80.1	76.0	75.1	75.1
17.5°	454.6	430.3	361.6	263.2	156.6	91.6	75.5	72.8	71.9	71.4	71.4
20°	457.3	428.0	344.2	222.9	110.8	74.6	70.5	69.1	68.7	68.2	68.2
22.5°	461.0	425.7	326.4	177.2	81.9	69.6	67.3	65.9	65.5	65.5	65.5
25°	466.0	424.3	304.4	134.1	70.5	65.9	63.6	62.7	62.7	62.3	62.3
27.5°	475.6	425.7	280.6	96.1	65.9	62.3	60.9	60.0	60.0	59.5	59.5
30°	488.9	429.8	250.9	75.1	62.3	58.6	57.2	56.8	56.3	56.3	56.3
32.5°	507.7	436.2	218.4	64.1	57.7	54.9	53.6	53.1	53.1	53.1	52.6
35°	536.5	449.5	178.5	58.6	53.6	50.8	49.4	49.4	49.4	49.0	49.4
37.5°	580.4	471.0	138.2	54.0	49.0	46.7	45.8	45.3	45.3	45.3	45.3
40°	635.8	505.8	100.7	49.9	44.9	42.6	41.7	41.2	40.7	40.7	40.7
42.5°	707.2	544.3	73.2	45.3	41.2	38.9	38.0	37.1	36.2	35.7	35.7
45°	781.4	590.1	57.2	41.7	37.5	35.7	34.8	33.4	32.0	30.7	30.7
47.5°	853.3	625.3	49.0	37.5	34.3	32.5	31.6	29.8	27.5	26.1	26.1
50°	898.6	636.3	43.9	33.9	31.1	29.8	28.4	26.1	22.9	21.5	21.5
52.5°	912.8	616.1	39.4	30.7	28.4	27.0	25.2	22.0	18.8	16.9	16.9
55°	918.3	577.2	34.8	28.4	25.6	23.8	21.5	18.3	15.1	13.3	13.3
57.5°	911.4	522.3	31.1	25.6	22.9	21.1	18.3	14.6	11.4	10.1	10.1
60°	888.1	442.7	27.9	22.9	20.1	17.9	15.1	11.4	8.7	6.9	7.3
62.5°	824.9	342.4	24.3	19.2	17.4	15.1	11.9	8.7	5.5	4.6	4.6
65°	724.2	237.1	20.6	16.0	14.6	12.4	9.2	6.0	3.2	2.7	2.7
67.5°	588.2	153.4	16.0	13.3	12.4	10.1	6.9	3.7	1.8	1.8	1.4
70°	369.4	76.0	12.8	10.1	10.1	7.8	5.0	2.3	1.4	1.4	1.4
71°	261.4	51.7	11.4	9.2	9.2	7.3	4.6	1.8	1.4	1.4	1.4
72.5°	118.1	32.5	9.6	8.2	7.8	6.0	4.1	1.8	1.8	1.8	1.8
75°	37.1	17.9	6.9	6.4	6.4	5.0	3.7	2.3	2.3	2.3	2.3
77.5°	24.7	13.7	4.6	4.1	5.0	5.0	3.7	2.7	2.7	2.7	2.7
80°	20.1	7.3	2.7	2.7	3.7	4.6	3.7	2.7	3.2	2.7	2.7
82.5°	19.7	3.7	0.9	1.4	2.3	2.7	2.7	2.3	2.7	2.7	2.7
85°	8.2	0.9	0.5	0.9	0.9	1.4	1.4	1.8	2.3	2.3	2.3
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.9	1.4	1.8	1.8
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)