

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: McGRAW-EDISON

Report Number: P938721

Luminaire Tested: **GALN-SB1A-727-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

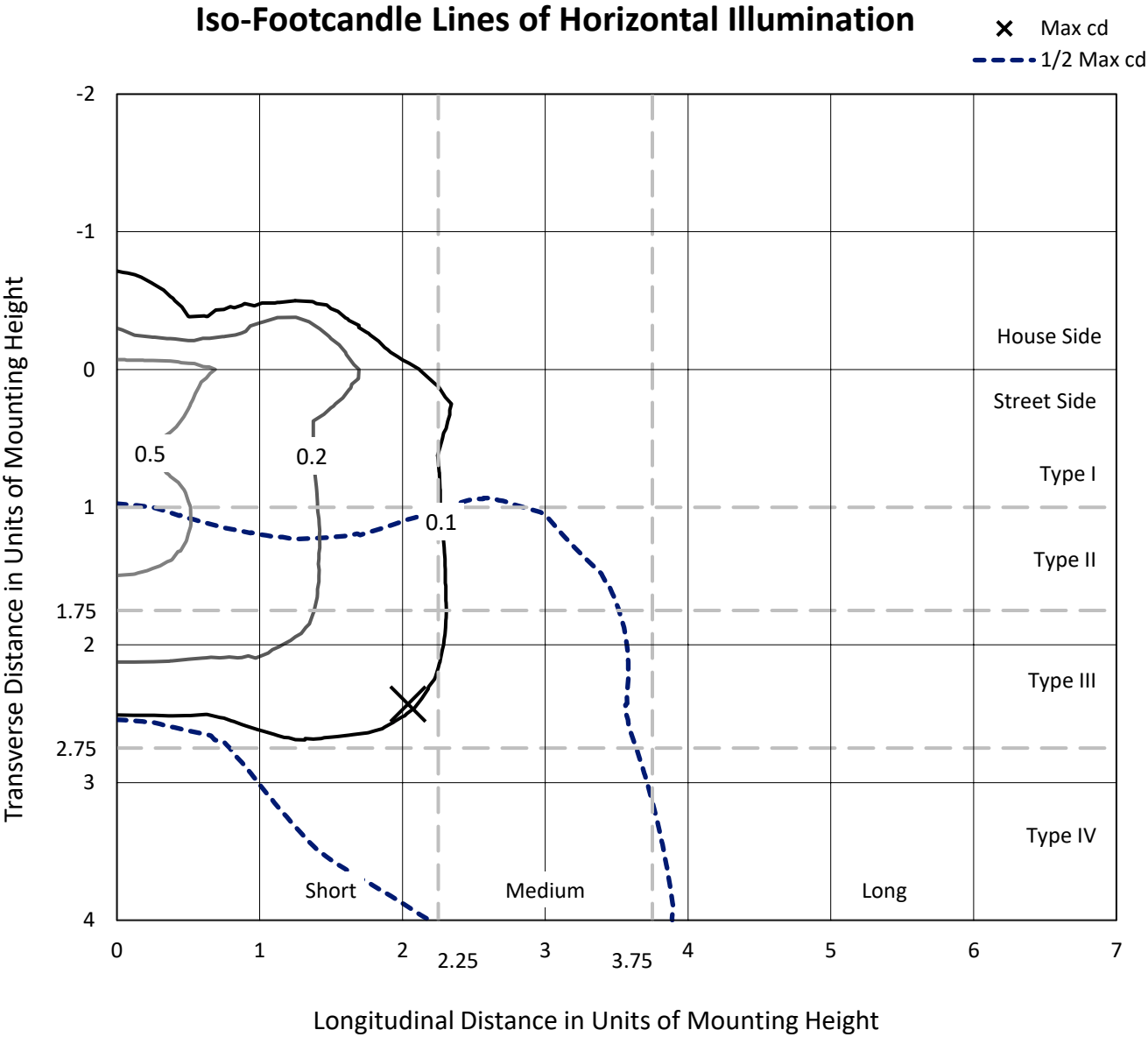
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2905 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 30.9
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: 24 FT



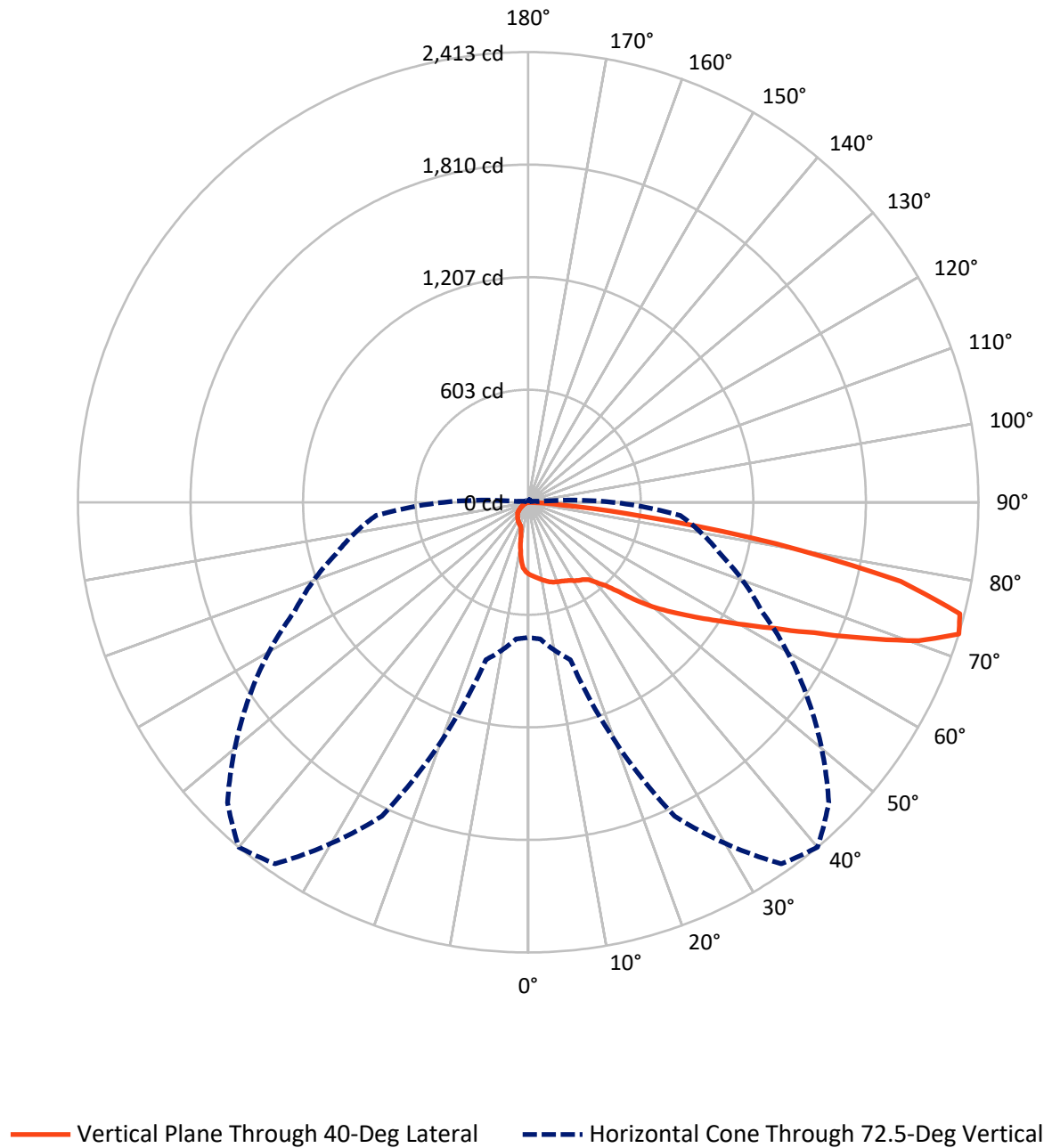
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Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	375.1	0.0	375.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	2529.9	0.0	2529.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	2905.0	0.0	2905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	1.2
10°-20°	95.4	3.3
20°-30°	154.4	5.3
30°-40°	227.9	7.8
40°-50°	383.5	13.2
50°-60°	595.5	20.5
60°-70°	745.2	25.7
70°-80°	610.1	21.0
80°-90°	57.8	2.0
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°	2905.0	100.0
0°-180°	2905.0	100.0

Coefficient of Utilization



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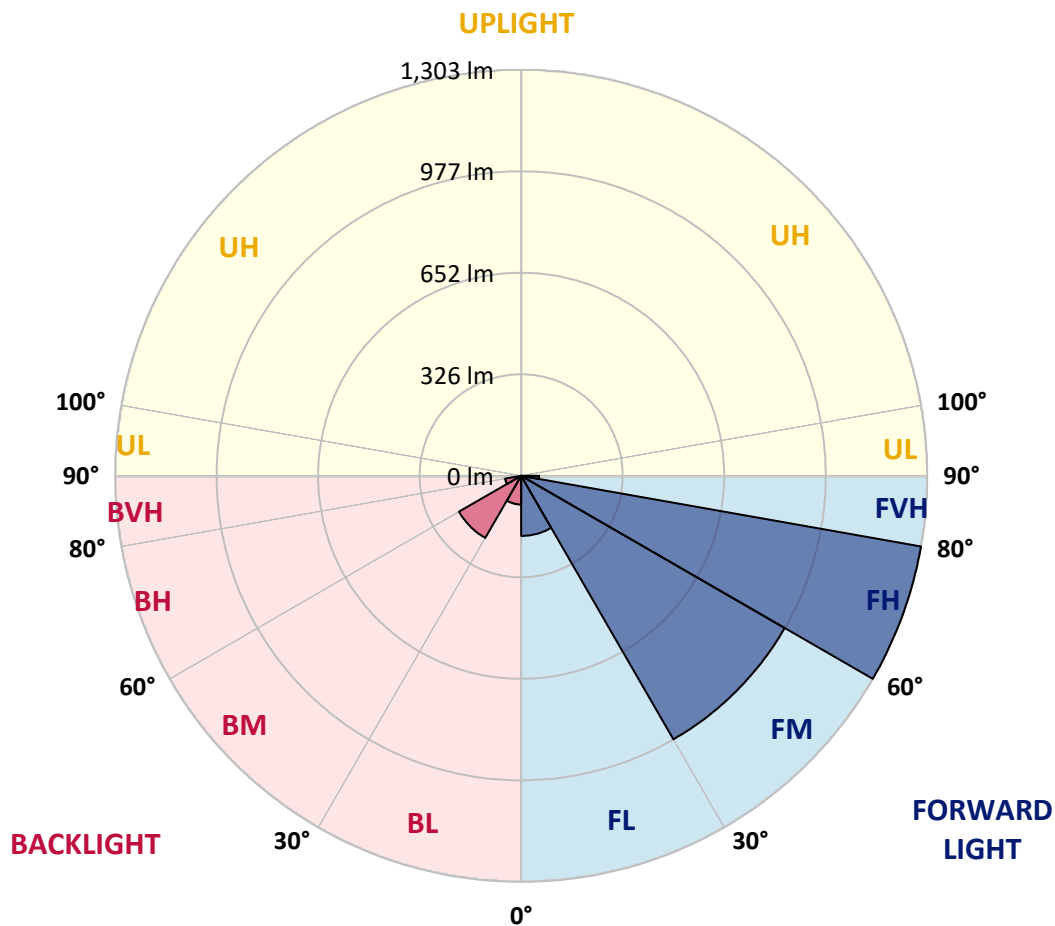
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	192.8	6.6			
FM	(30°-60°)	976.6	33.6			
FH	(60°-80°)	1303.0	44.9			G1/1800
FVH	(80°-90°)	57.4	2.0			G1/100
BL	(0°-30°)	92.1	3.2	B0/110		
BM	(30°-60°)	230.4	7.9	B1/1000		
BH	(60°-80°)	52.3	1.8	B0/110		G0/110
BVH	(80°-90°)	0.4	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	384.6	384.6	384.6	384.6	384.6	384.6	384.6	384.6	384.6	384.6	384.6
2.5°	396.2	397.8	396.9	395.1	394.7	393.8	392.7	392.3	390.8	389.5	387.9
5°	407.4	408.9	407.8	405.4	404.3	403.2	401.7	400.4	397.3	394.5	391.0
7.5°	419.7	421.0	419.7	416.2	414.4	413.1	410.9	408.9	405.4	401.3	396.9
10°	433.2	434.3	432.3	427.7	424.9	422.9	421.0	418.8	415.5	410.9	405.7
12.5°	445.9	447.2	444.2	438.7	435.4	433.4	431.2	429.5	426.2	421.8	416.4
15°	457.5	459.5	454.2	448.3	444.6	443.1	440.9	439.8	437.6	434.5	429.5
17.5°	466.3	467.6	462.1	455.1	450.9	449.8	448.3	449.0	448.5	447.0	443.7
20°	473.7	474.6	467.4	458.8	454.2	454.4	454.0	456.2	457.1	457.1	456.8
22.5°	482.9	483.1	473.9	463.2	457.7	459.3	459.9	462.3	464.1	465.8	469.8
25°	494.9	494.5	483.5	468.9	464.1	466.3	467.8	468.7	470.6	473.5	482.4
27.5°	512.9	511.5	497.5	478.1	472.4	474.4	477.2	476.8	475.9	478.1	493.2
30°	535.6	533.9	515.3	491.0	485.7	487.5	488.4	484.4	478.1	480.0	502.6
32.5°	571.7	568.7	542.8	505.4	497.3	499.3	498.2	490.1	480.7	482.7	512.0
35°	634.5	627.1	590.5	535.6	510.5	508.3	505.6	497.8	486.2	484.2	519.9
37.5°	768.0	754.9	692.5	594.5	540.2	526.0	517.9	510.0	492.1	484.2	528.8
40°	918.5	905.2	833.2	692.9	589.7	565.6	546.3	524.5	498.2	487.0	542.8
42.5°	1075.6	1060.9	987.0	815.0	660.3	610.9	575.0	536.1	508.3	495.8	561.4
45°	1251.1	1232.7	1136.0	942.4	762.9	686.1	621.2	559.9	525.8	511.3	586.8
47.5°	1436.2	1412.3	1284.6	1066.0	873.4	790.3	705.6	602.6	551.6	534.5	621.2
50°	1600.3	1576.7	1437.9	1195.3	976.7	889.4	801.9	661.6	590.3	567.3	667.3
52.5°	1718.2	1700.3	1577.5	1328.8	1084.1	982.4	889.2	730.3	639.3	609.4	721.8
55°	1797.2	1780.8	1676.4	1455.2	1209.1	1084.8	975.2	805.0	698.4	659.7	782.0
57.5°	1845.1	1835.7	1748.0	1568.1	1332.9	1196.8	1073.6	887.0	768.0	719.0	849.2
60°	1862.2	1854.5	1792.4	1675.8	1482.6	1331.4	1189.4	979.6	852.4	786.4	918.1
62.5°	1816.7	1818.2	1824.3	1803.3	1640.3	1488.9	1328.1	1090.7	946.1	862.7	982.8
65°	1602.5	1615.2	1731.6	1944.7	1849.3	1686.3	1504.7	1226.4	1053.3	949.6	1034.3
67.5°	1326.8	1345.2	1490.0	2027.4	2072.0	1942.5	1750.6	1399.2	1181.1	1038.0	1053.7
70°	1015.7	1035.3	1210.8	2010.1	2280.5	2222.5	2054.7	1619.1	1313.4	1099.2	1004.1
72.5°	724.9	734.9	873.2	1856.3	2366.1	2413.3	2278.8	1827.4	1381.0	1065.3	819.0
75°	509.4	507.6	599.3	1494.8	2232.8	2390.1	2200.2	1714.7	1249.8	846.3	505.0
77.5°	221.9	222.3	299.3	907.8	1782.1	2041.4	1828.9	1074.1	871.3	448.5	213.1
80°	57.5	59.3	109.8	361.5	1073.0	1347.4	1115.4	472.2	402.6	109.4	40.7
82.5°	20.3	21.7	50.5	113.6	395.8	617.9	496.7	151.0	105.0	31.3	10.9
85°	5.9	7.0	27.1	34.8	81.8	174.6	120.6	29.3	25.8	16.2	2.8
87.5°	0.0	0.9	5.5	4.8	4.8	3.3	6.1	3.3	4.2	2.0	0.9
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°	384.6	384.6	384.6	384.6	384.6	384.6	384.6	384.6	384.6	384.6	384.6
2.5°	386.6	385.1	381.8	378.3	375.0	372.0	371.1	367.8	366.3	366.5	366.3
5°	388.6	385.7	379.4	371.7	363.9	354.9	347.5	336.9	328.0	326.9	326.2
7.5°	393.8	389.2	379.0	364.1	344.4	319.7	296.7	273.9	261.0	254.0	253.6
10°	401.9	395.8	380.1	351.6	309.8	265.6	230.8	202.2	187.5	180.7	179.4
12.5°	411.6	404.8	381.8	330.4	265.2	207.2	169.6	152.1	149.0	148.6	148.3
15°	425.1	417.7	383.8	301.7	216.8	157.8	140.5	140.7	143.1	144.4	144.2
17.5°	440.2	432.8	380.9	266.7	169.1	134.8	134.3	136.3	139.8	141.1	140.9
20°	455.5	448.5	370.9	225.6	136.7	128.4	130.2	132.4	135.9	137.6	137.6
22.5°	471.3	465.2	354.9	181.8	123.4	123.8	126.0	128.2	132.2	134.1	134.1
25°	488.1	482.9	333.7	145.7	117.7	119.0	121.9	124.5	128.7	131.1	131.1
27.5°	505.2	501.3	309.6	121.7	112.5	114.0	117.3	120.8	124.9	127.8	128.0
30°	523.8	521.6	290.3	112.7	107.4	108.7	112.5	116.4	121.0	124.5	124.9
32.5°	542.8	542.4	280.9	119.2	102.8	103.7	107.0	110.9	116.6	121.0	121.4
35°	561.7	562.5	275.5	137.8	101.3	98.9	101.1	104.6	111.4	116.8	117.7
37.5°	585.7	587.9	275.2	158.0	105.0	94.1	95.6	98.0	103.9	110.3	111.4
40°	621.6	633.2	289.2	175.3	111.6	89.7	90.1	90.6	93.6	98.9	100.6
42.5°	669.3	703.2	339.8	187.1	114.2	85.8	84.2	81.8	81.4	84.2	85.8
45°	728.6	787.9	428.6	193.6	111.6	81.4	77.2	70.9	68.5	70.5	70.5
47.5°	798.4	880.7	533.9	195.2	107.2	75.9	68.5	60.2	58.2	58.9	58.6
50°	866.4	950.2	626.4	182.5	100.0	68.9	58.9	51.9	50.5	50.8	50.8
52.5°	926.6	974.1	652.7	152.5	90.4	60.4	50.5	45.7	44.9	44.9	44.6
55°	966.4	948.3	582.0	116.6	78.3	51.6	43.3	40.9	40.5	40.3	39.8
57.5°	974.7	864.2	439.6	84.2	61.3	43.5	38.5	37.2	36.3	35.4	35.0
60°	945.0	724.2	279.8	58.9	45.9	37.2	34.1	33.3	31.5	29.8	29.1
62.5°	880.7	547.0	154.9	40.9	37.0	31.7	30.2	29.1	25.8	23.0	22.1
65°	794.2	363.6	68.5	31.9	30.2	26.7	25.8	24.3	20.3	17.1	16.4
67.5°	707.4	209.4	30.9	25.6	24.3	21.9	21.2	20.1	17.3	14.2	13.8
70°	608.3	106.1	21.2	20.3	18.8	16.6	17.3	17.1	14.2	11.6	11.2
72.5°	452.9	52.7	16.0	15.3	13.6	11.8	14.2	14.0	11.2	8.8	8.3
75°	256.4	26.0	11.6	10.7	8.1	8.8	11.4	10.7	7.7	5.7	5.3
77.5°	101.7	13.3	7.7	6.6	4.8	5.9	8.3	7.2	3.9	2.4	2.2
80°	23.4	6.6	3.9	2.8	2.2	3.5	4.4	2.6	1.1	0.2	0.0
82.5°	6.6	2.8	1.3	1.1	1.1	1.3	1.1	0.4	0.0	0.0	0.0
85°	2.2	1.3	0.4	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	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)