

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: P650708

Luminaire Tested: **GALN-SA1C-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA 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: 4392.5 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

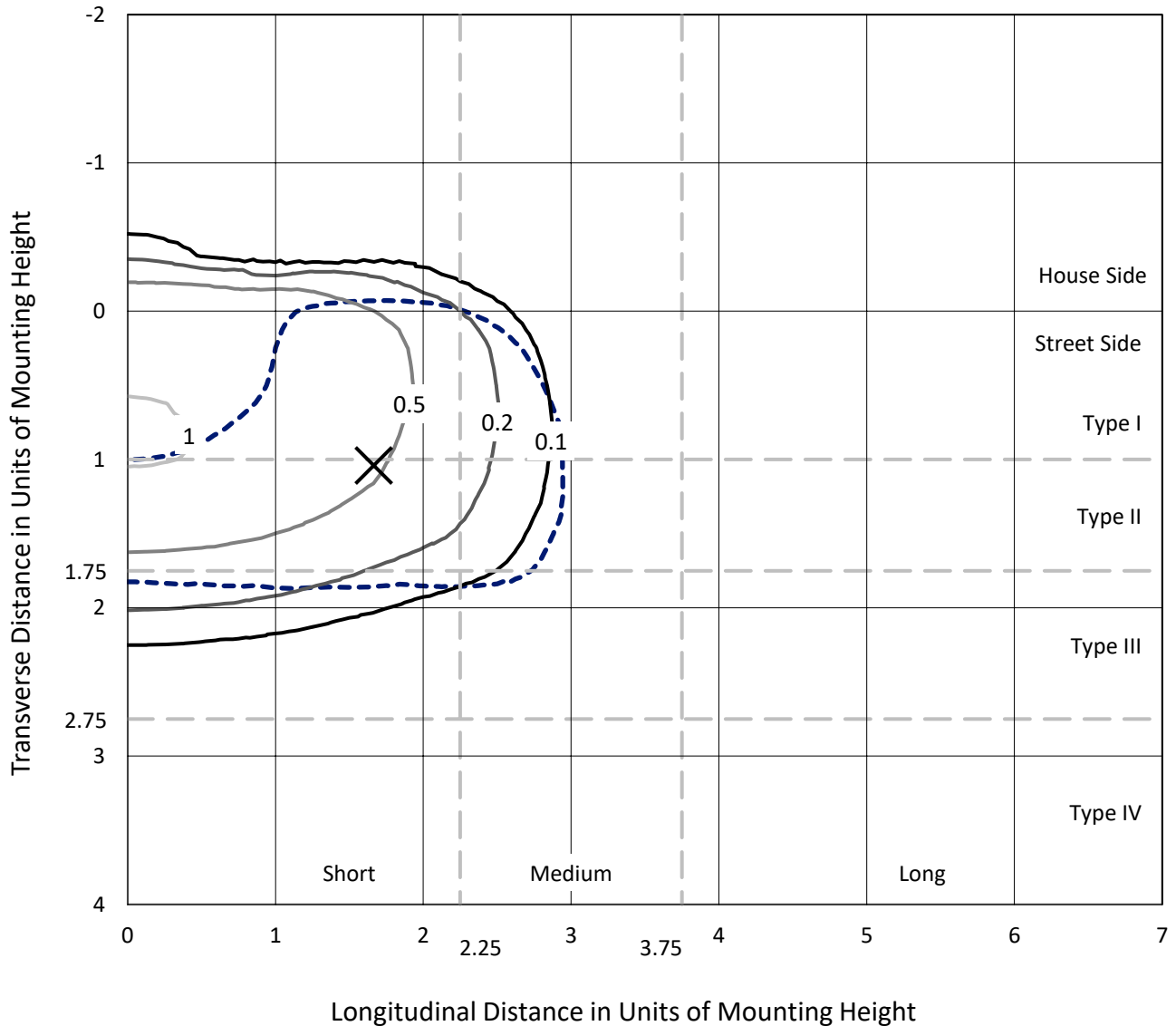
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

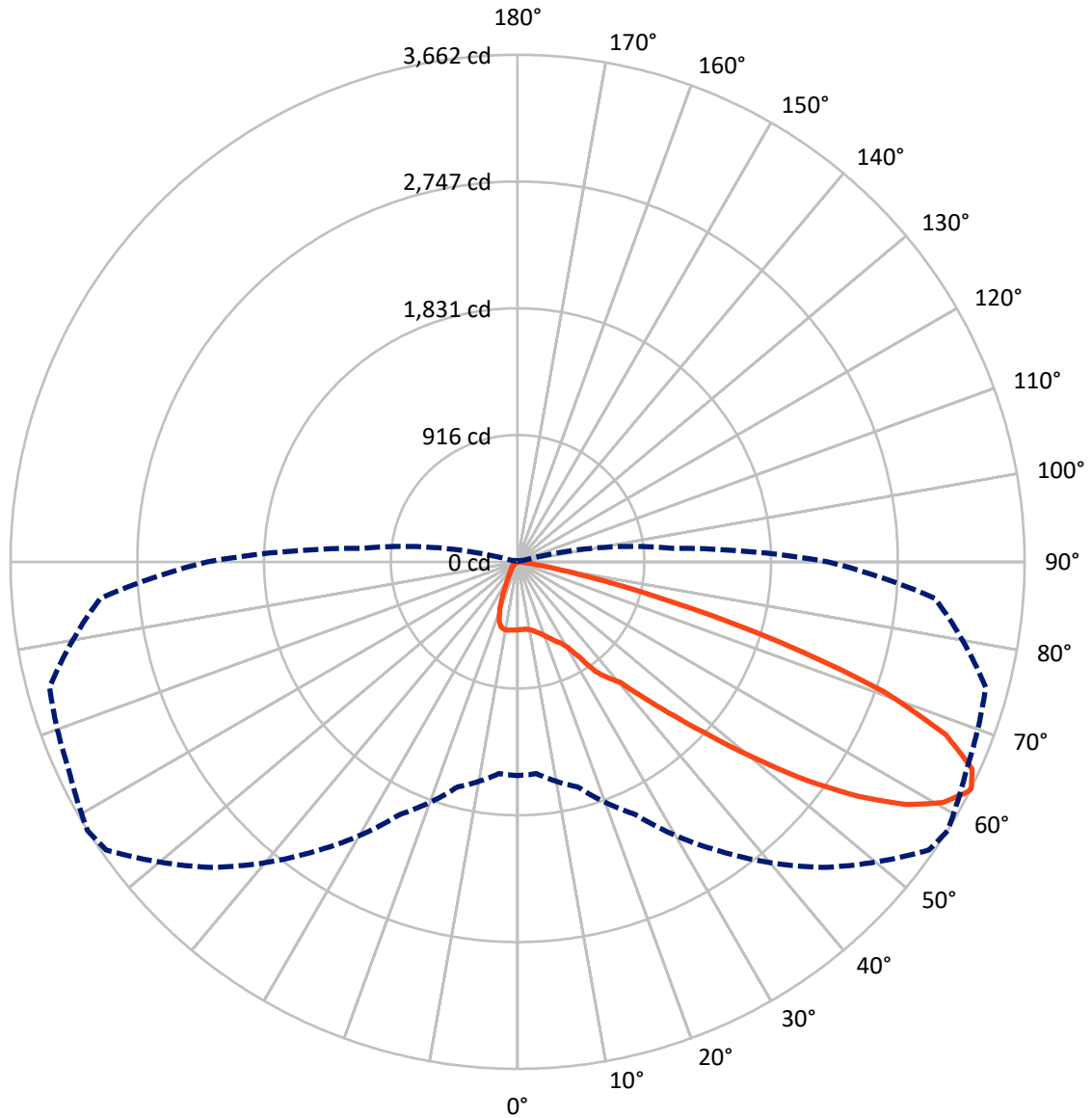
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	454.8	0.0	454.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3937.7	0.0	3937.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	4392.5	0.0	4392.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	1.0
10°-20°	125.4	2.9
20°-30°	217.6	5.0
30°-40°	399.9	9.1
40°-50°	752.8	17.1
50°-60°	1287.6	29.3
60°-70°	1232.8	28.1
70°-80°	314.4	7.2
80°-90°	16.1	0.4
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°	4392.5	100.0
0°-180°	4392.5	100.0

Coefficient of Utilization



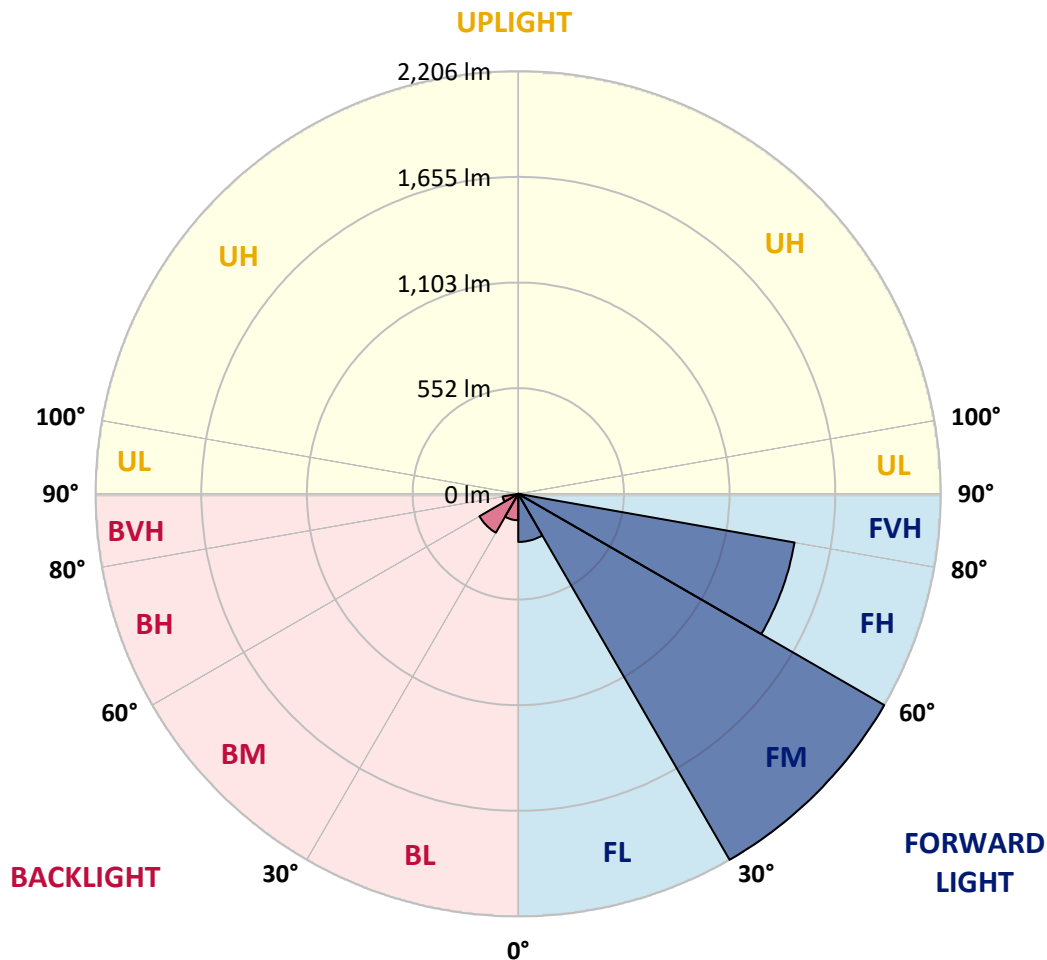
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.1	5.7			
FM (30°-60°)	2206.3	50.2			
FH (60°-80°)	1464.9	33.3			G1/1800
FVH (80°-90°)	15.4	0.4			G1/100
BL (0°-30°)	137.9	3.1	B1/500		
BM (30°-60°)	233.9	5.3	B1/1000		
BH (60°-80°)	82.3	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	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°	491.7	491.7	491.7	491.7	491.7	491.7	491.7	491.7	491.7	491.7	491.7
2.5°	479.5	481.2	482.8	483.5	485.8	488.1	489.8	489.5	492.1	493.4	493.4
5°	460.4	460.4	464.7	468.6	475.2	481.8	488.1	489.5	494.4	499.0	500.7
7.5°	444.1	445.1	448.4	455.7	464.7	476.3	488.8	491.7	500.4	510.6	514.9
10°	436.6	437.2	441.5	449.1	460.4	476.3	493.8	499.4	512.6	528.8	534.8
12.5°	434.9	435.9	440.2	448.8	461.7	480.9	504.7	510.6	529.8	550.6	559.5
15°	437.8	438.5	442.8	452.0	466.3	489.1	519.2	527.5	550.3	574.4	586.0
17.5°	448.4	447.7	450.8	458.3	474.2	499.4	536.7	546.6	573.5	606.5	614.1
20°	493.4	489.1	486.4	479.9	486.2	513.9	557.9	572.5	605.5	639.2	644.5
22.5°	590.3	580.7	561.9	536.1	516.2	533.8	583.4	600.2	642.9	676.0	676.0
25°	713.7	701.4	682.6	626.4	577.8	566.5	612.2	633.3	683.6	717.0	706.0
27.5°	868.1	858.5	821.8	756.3	681.9	623.7	645.6	665.1	719.6	759.9	737.1
30°	993.8	989.2	959.1	900.5	818.5	733.5	707.7	720.7	767.6	814.2	790.7
32.5°	1099.9	1099.9	1069.2	1014.6	937.9	862.4	813.2	822.5	867.4	921.3	877.7
35°	1216.7	1212.7	1187.9	1135.9	1050.0	983.5	963.4	975.9	1016.6	1056.6	949.2
37.5°	1339.4	1338.0	1312.2	1262.0	1191.9	1108.2	1060.9	1064.2	1085.1	1109.5	1032.8
40°	1472.7	1474.6	1440.9	1409.8	1343.7	1258.1	1167.4	1146.5	1166.0	1235.2	1187.2
42.5°	1630.0	1625.4	1610.9	1568.5	1515.3	1464.0	1355.3	1347.6	1364.9	1438.9	1387.0
45°	1812.9	1819.6	1794.4	1771.0	1735.2	1692.6	1601.6	1588.4	1607.2	1722.3	1648.6
47.5°	1996.1	1989.9	2006.0	2001.7	2020.9	1989.2	1908.8	1881.7	1927.1	2036.1	1927.7
50°	2135.7	2142.6	2176.4	2225.6	2308.0	2325.9	2248.8	2239.6	2259.7	2329.8	2177.3
52.5°	2226.3	2249.5	2302.4	2429.1	2577.5	2693.0	2634.4	2629.5	2621.2	2640.1	2416.1
55°	2285.5	2309.0	2378.1	2564.6	2820.3	3007.8	3010.8	2989.6	2935.0	2921.5	2639.4
57.5°	2249.2	2253.8	2352.4	2601.7	2954.9	3232.3	3329.6	3308.4	3207.6	3156.3	2836.4
60°	2021.6	2031.2	2168.4	2461.4	2896.3	3305.7	3540.9	3531.3	3420.9	3363.0	2989.9
62.5°	1618.5	1646.3	1787.5	2114.2	2624.2	3182.1	3626.6	3653.6	3567.7	3488.0	3038.2
63°	1544.4	1535.5	1684.6	2013.0	2552.1	3120.9	3627.8	3662.2	3574.2	3499.9	3025.0
65°	1143.3	1170.1	1267.0	1587.4	2123.8	2836.2	3546.2	3607.0	3549.8	3447.3	2878.5
67.5°	641.9	640.6	747.7	1038.7	1486.6	2224.7	3206.6	3335.2	3323.3	3093.5	2386.1
70°	314.2	319.2	363.1	538.4	862.2	1534.8	2664.5	2803.4	2807.7	2429.7	1649.9
72.5°	142.2	144.5	175.9	262.2	443.1	817.2	1836.1	1968.7	1944.2	1548.4	911.1
75°	75.1	80.1	96.9	132.0	213.6	337.0	998.8	1127.0	1075.8	707.4	335.3
77.5°	55.6	57.2	65.9	84.0	114.5	131.3	430.9	512.6	480.2	256.0	111.1
80°	40.7	42.0	48.9	59.5	72.1	66.8	162.4	186.2	167.0	87.0	34.1
82.5°	24.8	25.1	35.7	44.3	45.3	37.3	53.6	57.5	60.2	48.9	18.5
85°	8.9	11.3	24.1	32.0	26.8	18.8	22.5	24.8	27.1	31.1	10.9
87.5°	1.0	1.3	11.6	15.6	7.6	7.0	8.2	9.3	9.9	11.6	5.3
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°	491.7	491.7	491.7	491.7	491.7	491.7	491.7	491.7	491.7	491.7	491.7
2.5°	494.8	496.0	495.1	493.4	493.1	492.1	490.1	490.1	490.1	490.8	490.1
5°	502.0	503.0	500.7	497.4	493.8	489.1	484.2	481.2	480.9	480.2	478.5
7.5°	515.9	517.2	511.9	504.0	494.1	482.8	472.2	462.3	457.7	454.1	454.1
10°	536.1	537.4	526.8	512.6	492.7	470.0	444.8	422.0	404.1	395.9	393.8
12.5°	560.2	560.9	543.4	518.6	485.8	441.9	388.3	338.3	303.6	287.7	286.0
15°	586.7	582.1	558.9	520.8	466.0	383.9	291.3	230.2	194.1	183.5	187.5
17.5°	613.4	604.8	570.8	517.2	421.3	291.3	195.8	157.1	145.8	142.9	142.9
20°	638.6	626.7	579.4	501.3	344.0	200.7	145.2	135.9	134.0	132.0	132.3
22.5°	663.7	645.6	587.0	466.0	256.3	143.6	129.9	127.0	124.4	121.7	121.4
25°	688.2	663.0	590.0	400.5	174.6	123.4	118.7	114.8	109.5	106.5	105.8
27.5°	713.7	684.2	588.0	317.8	127.3	110.4	105.8	100.2	93.9	88.6	88.6
30°	762.6	724.6	581.0	228.5	107.1	97.2	91.2	82.3	75.4	70.1	69.8
32.5°	829.4	777.2	557.2	160.7	95.3	85.6	76.7	66.8	59.5	55.6	55.6
35°	888.9	830.1	512.6	118.4	85.6	74.4	63.5	53.9	48.3	45.7	44.7
37.5°	979.6	907.4	451.1	96.2	76.4	64.5	53.2	44.3	39.7	37.7	37.7
40°	1115.5	1002.1	375.7	84.4	67.4	54.9	44.3	37.3	33.7	31.5	31.5
42.5°	1284.1	1117.8	299.3	75.7	59.2	47.3	37.0	31.8	28.4	26.8	26.5
45°	1496.5	1239.8	230.5	67.8	52.6	40.4	31.5	26.8	23.5	22.5	22.8
47.5°	1718.0	1347.3	178.5	60.9	45.7	34.1	26.8	23.1	20.9	19.5	19.5
50°	1907.2	1421.4	135.6	52.9	40.4	28.8	23.5	20.9	18.8	18.2	17.8
52.5°	2065.2	1442.9	103.9	46.0	35.4	24.8	20.9	18.8	17.2	16.2	16.2
55°	2199.9	1424.1	81.3	38.7	29.8	21.5	18.5	16.9	14.9	13.9	13.5
57.5°	2278.6	1363.5	62.1	32.0	24.1	17.8	16.2	14.2	11.9	10.3	10.3
60°	2318.3	1275.5	47.6	26.5	18.5	14.2	13.2	10.6	8.2	7.0	6.6
62.5°	2270.6	1158.8	36.1	20.9	13.9	10.6	8.9	7.6	5.3	4.0	4.0
63°	2241.2	1125.1	34.7	19.8	12.9	9.9	8.2	7.0	4.6	3.6	3.3
65°	2043.1	977.9	28.4	15.9	10.3	7.0	5.6	5.0	3.3	1.7	1.3
67.5°	1622.5	748.1	22.5	11.9	7.3	5.0	3.3	2.9	1.0	0.0	0.0
70°	1096.9	483.2	17.5	8.6	5.0	2.9	1.7	1.3	0.3	0.0	0.0
72.5°	572.1	247.7	13.5	6.3	2.9	2.0	1.0	0.3	0.0	0.0	0.0
75°	202.4	84.4	9.9	4.0	2.0	1.0	0.3	0.0	0.0	0.0	0.0
77.5°	61.1	31.5	6.3	2.9	1.3	0.7	0.0	0.0	0.0	0.0	0.0
80°	21.5	11.6	3.6	2.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	10.6	5.6	2.4	1.7	1.0	0.3	0.0	0.0	0.0	0.0	0.0
85°	6.0	3.6	2.0	1.7	1.0	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.6	2.0	1.7	1.3	0.7	0.3	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)