

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: P647235

Luminaire Tested: **GALN-SA1D-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA 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: 4582.1 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

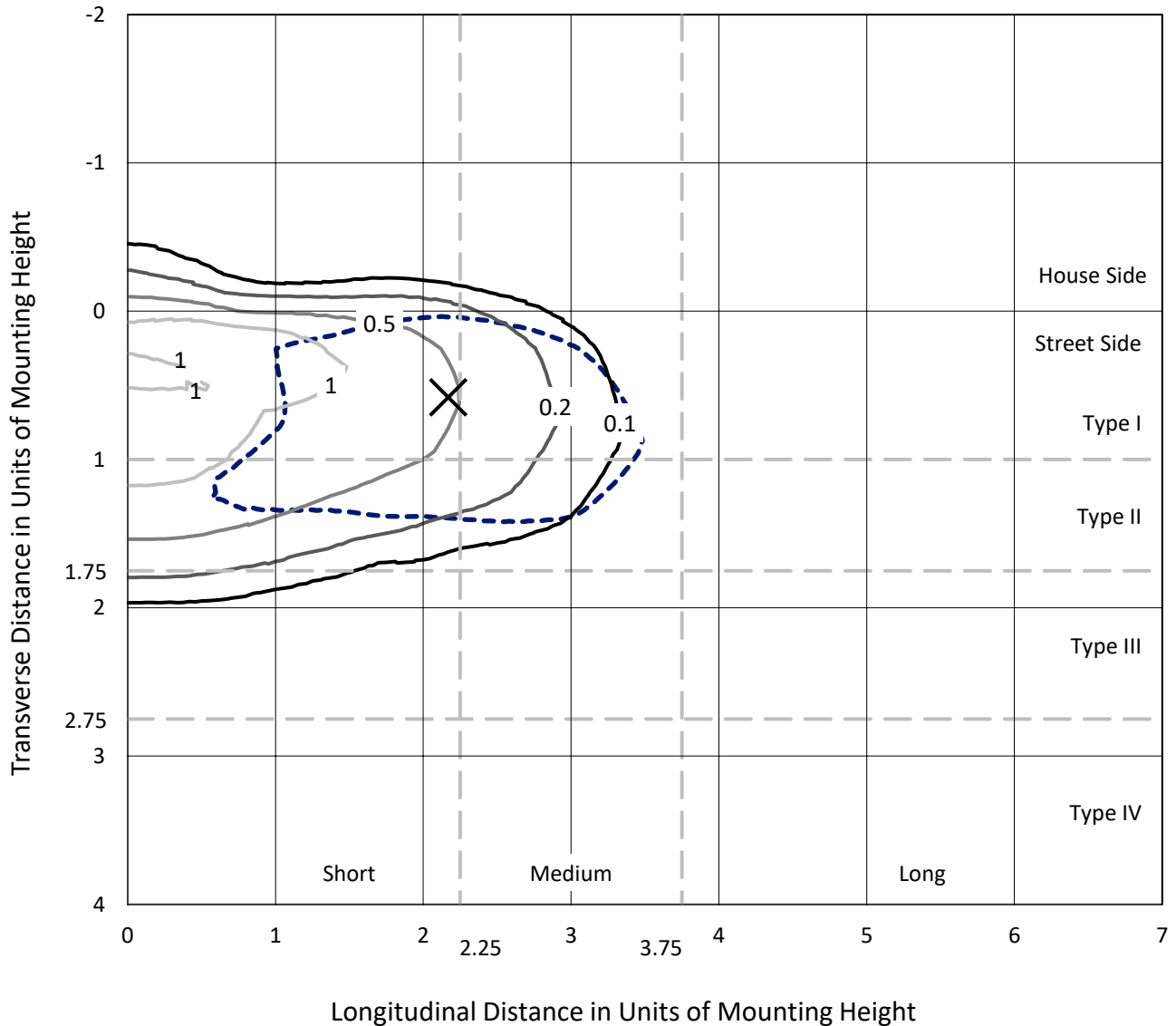
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

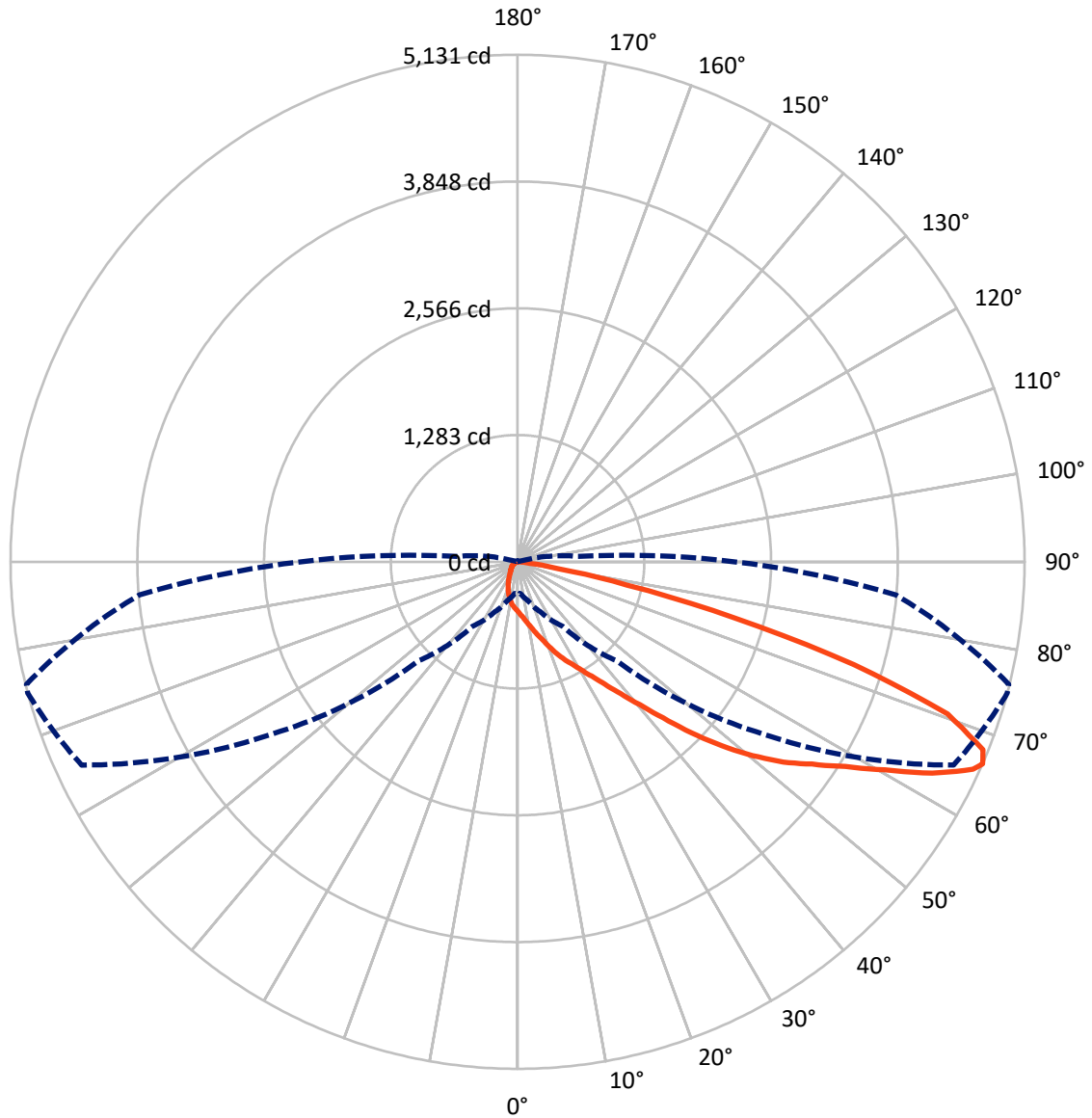
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	282.9	0.0	282.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4299.2	0.0	4299.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	4582.1	0.0	4582.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	1.1
10°-20°	142.2	3.1
20°-30°	245.6	5.4
30°-40°	443.0	9.7
40°-50°	800.4	17.5
50°-60°	1247.8	27.2
60°-70°	1185.4	25.9
70°-80°	444.2	9.7
80°-90°	25.1	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°	4582.1	100.0
0°-180°	4582.1	100.0

Coefficient of Utilization



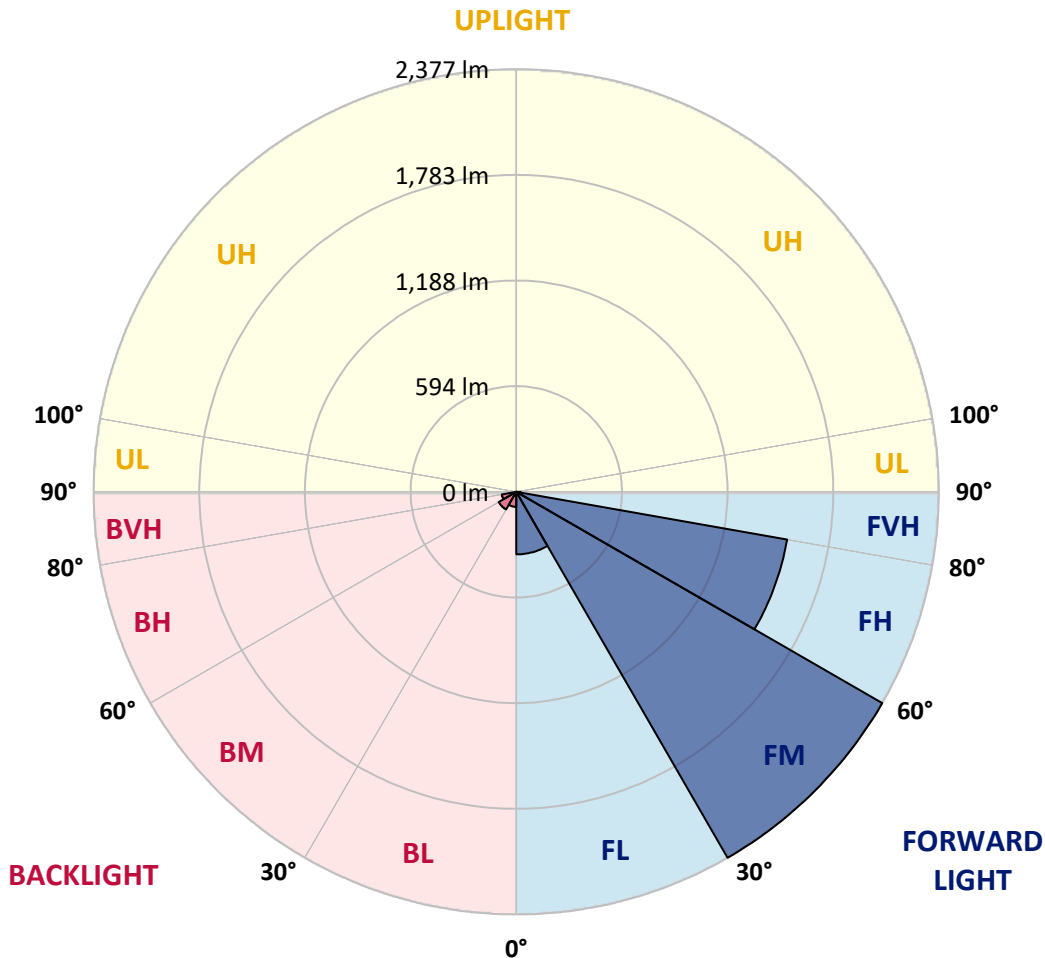
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.7	7.7			
FM (30°-60°)	2376.7	51.9			
FH (60°-80°)	1547.0	33.8			G1/1800
FVH (80°-90°)	23.8	0.5			G1/100
BL (0°-30°)	84.5	1.8	B0/110		
BM (30°-60°)	114.5	2.5	B0/220		
BH (60°-80°)	82.6	1.8	B0/110		G0/110
BVH (80°-90°)	1.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1
2.5°	598.7	591.2	593.6	590.2	582.4	570.9	560.7	546.1	531.6	529.2	512.9
5°	677.6	675.6	672.9	663.0	657.6	640.0	619.0	593.9	563.8	558.4	528.9
7.5°	731.5	730.5	731.8	726.8	722.0	706.1	683.7	649.5	602.8	599.7	550.5
10°	749.1	751.8	756.9	765.1	772.5	767.4	750.4	707.8	653.3	644.4	575.3
12.5°	738.9	742.0	754.2	775.9	799.9	813.9	807.0	775.9	706.7	699.6	603.1
15°	712.8	716.6	733.8	767.4	810.4	849.7	866.7	844.3	769.1	757.6	636.7
17.5°	674.2	679.6	704.4	748.8	807.7	875.5	923.2	915.8	835.5	824.7	673.2
20°	645.1	649.2	670.2	721.0	796.2	889.7	977.1	998.2	917.5	898.9	716.2
22.5°	664.4	665.8	672.9	703.4	775.6	893.4	1024.6	1083.8	1004.6	988.0	761.0
25°	759.0	745.4	738.3	731.5	771.1	890.0	1067.6	1173.3	1091.3	1073.6	805.3
27.5°	908.0	901.9	866.0	817.9	808.8	894.4	1096.0	1258.0	1172.9	1154.0	848.7
30°	1070.3	1059.8	1037.8	967.3	896.5	925.7	1116.7	1340.3	1269.6	1244.4	888.4
32.5°	1219.4	1226.2	1193.3	1120.8	1038.8	992.1	1143.5	1430.1	1380.3	1349.1	934.4
35°	1393.2	1406.7	1356.2	1286.8	1190.9	1111.9	1195.6	1531.4	1520.9	1481.6	1005.6
37.5°	1569.7	1577.8	1547.0	1449.4	1363.0	1264.5	1293.9	1656.4	1694.0	1660.5	1090.6
40°	1718.1	1729.3	1706.5	1619.9	1527.7	1441.0	1436.6	1792.7	1900.0	1865.5	1217.3
42.5°	1831.6	1840.0	1840.8	1779.4	1696.4	1657.1	1618.5	1966.4	2158.2	2118.2	1364.4
45°	1975.0	1987.1	1980.0	1938.3	1876.3	1869.2	1849.2	2176.5	2467.2	2416.7	1555.1
47.5°	2196.5	2204.6	2187.0	2137.9	2074.9	2086.1	2074.2	2412.0	2782.3	2738.9	1752.7
50°	2350.3	2363.9	2388.9	2408.6	2362.9	2321.5	2286.3	2631.9	3081.5	3042.5	1954.6
52.5°	2348.6	2371.0	2450.2	2549.2	2649.1	2636.6	2535.3	2874.8	3367.1	3319.0	2144.3
55°	2190.4	2233.7	2350.3	2525.8	2802.7	2940.6	2894.4	3156.0	3613.8	3581.2	2364.2
57.5°	1863.8	1890.2	2052.2	2297.5	2716.9	3083.5	3310.5	3537.2	3909.5	3894.3	2705.7
60°	1253.6	1265.5	1473.8	1777.0	2313.1	2940.9	3615.4	3998.3	4273.8	4266.3	3104.5
62.5°	718.2	723.3	874.5	1130.3	1645.9	2492.3	3641.2	4567.2	4710.4	4714.5	3565.9
65°	386.6	389.3	511.3	663.4	1001.5	1776.4	3274.3	4878.9	5063.5	5071.3	3851.9
66°	333.7	320.9	406.9	565.5	796.9	1413.9	3042.2	4867.7	5131.3	5122.8	3841.8
67.5°	253.8	265.3	324.9	434.7	590.5	1005.2	2511.6	4651.2	5079.8	5053.3	3685.6
70°	181.6	186.4	231.4	310.0	402.1	551.5	1604.9	3863.1	4617.0	4581.4	3210.9
72.5°	117.2	122.3	164.0	224.3	290.7	301.2	898.5	2791.1	3559.5	3554.4	2418.1
75°	83.7	88.4	108.4	160.6	218.5	186.4	432.7	1881.1	2262.9	2247.7	1495.8
77.5°	60.7	63.0	72.5	105.0	156.2	133.5	200.6	1004.6	1126.6	1179.7	661.0
80°	34.9	37.0	50.5	64.0	105.7	91.1	95.9	403.2	415.7	395.7	206.7
82.5°	17.3	19.7	30.1	43.7	66.1	61.3	44.1	121.3	128.1	124.7	52.1
85°	4.1	5.1	16.9	28.8	32.2	27.4	21.4	35.5	44.1	43.1	20.0
87.5°	0.3	0.7	6.1	5.1	5.4	9.2	7.4	9.2	14.3	13.2	7.1
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°	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1
2.5°	505.5	499.1	480.4	462.1	446.9	431.0	416.4	407.9	404.6	400.8	402.5
5°	512.6	497.0	459.5	426.9	395.0	367.9	346.2	332.4	325.6	324.6	322.9
7.5°	522.1	495.3	437.1	386.3	344.6	314.5	289.7	269.7	263.6	258.2	253.8
10°	533.6	492.3	409.3	343.6	299.2	261.2	228.7	205.0	192.8	189.4	191.8
12.5°	545.8	486.6	380.1	304.3	253.1	204.7	174.5	162.6	159.3	157.9	158.2
15°	558.0	479.4	349.7	266.3	201.6	163.3	149.4	146.3	145.0	144.3	143.7
17.5°	569.2	467.9	315.5	229.3	163.3	139.6	134.5	131.8	129.1	128.1	126.4
20°	582.4	454.7	284.6	188.1	138.2	126.4	120.3	115.2	111.1	108.4	108.1
22.5°	594.9	437.8	252.4	155.8	126.1	113.5	103.7	98.3	93.5	90.1	91.1
25°	601.7	417.1	223.6	135.9	114.9	100.6	89.8	83.0	77.9	76.3	75.9
27.5°	601.7	391.7	195.5	124.3	104.7	89.1	77.9	71.5	68.1	65.7	66.1
30°	597.0	363.5	169.4	115.6	95.9	78.9	68.4	62.7	60.0	58.3	57.9
32.5°	593.3	336.8	147.0	107.0	86.8	70.2	61.0	56.6	53.9	52.1	52.1
35°	599.0	313.7	129.7	98.6	78.3	63.3	55.2	51.1	48.5	47.1	46.7
37.5°	614.3	292.8	116.6	89.4	70.5	57.6	51.1	46.4	43.7	42.0	41.3
40°	651.8	280.9	106.7	81.0	63.0	52.9	46.4	42.0	38.6	37.0	36.6
42.5°	712.2	281.2	97.2	73.2	57.2	48.8	42.4	37.3	33.5	31.9	31.5
45°	803.0	294.1	89.8	65.7	52.1	44.4	38.0	32.5	29.1	27.4	27.4
47.5°	911.7	319.2	83.3	59.3	47.4	40.3	33.5	28.1	24.7	23.4	23.4
50°	1029.6	351.7	76.9	52.5	43.4	35.9	28.8	24.4	21.7	20.7	20.7
52.5°	1149.9	391.0	70.5	47.1	39.0	31.2	24.7	21.7	19.3	18.6	18.3
55°	1307.8	441.1	63.7	41.3	34.2	26.8	22.0	18.9	16.3	15.3	14.9
57.5°	1550.7	516.7	56.2	36.3	28.1	22.4	18.9	15.9	12.8	11.2	10.8
60°	1843.8	608.9	48.5	31.9	22.7	18.3	15.3	12.2	9.5	7.4	7.1
62.5°	2118.2	667.4	41.0	26.8	17.9	13.9	10.8	9.2	6.8	4.8	4.4
65°	2239.5	647.8	33.9	21.7	14.3	9.8	7.1	6.4	4.1	2.0	1.7
66°	2199.2	618.6	31.2	19.7	12.8	8.5	6.1	5.4	3.1	1.0	1.0
67.5°	2080.3	549.9	27.1	16.9	11.2	6.8	4.8	4.1	1.7	0.3	0.0
70°	1782.5	444.8	21.4	12.5	8.1	4.8	2.7	2.0	1.0	0.0	0.0
72.5°	1369.2	331.4	16.9	9.5	5.8	2.7	1.3	0.7	1.0	0.0	0.0
75°	838.9	189.4	13.2	7.1	3.8	1.7	1.0	0.0	1.0	0.3	0.0
77.5°	372.3	85.0	8.8	4.8	2.7	1.3	0.7	0.0	0.7	0.3	0.0
80°	94.2	27.8	5.1	3.4	2.0	1.0	0.3	0.0	0.7	0.7	0.3
82.5°	25.8	10.2	3.8	2.7	1.7	1.0	0.3	0.0	0.7	0.7	0.7
85°	10.2	4.8	3.4	2.7	2.0	1.0	0.3	0.0	0.7	0.7	0.7
87.5°	4.8	3.4	3.4	3.1	2.3	1.0	0.3	0.0	0.7	0.3	0.7
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)