

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: P646727

Luminaire Tested: **GALN-SA1C-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA 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: 4582.1 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

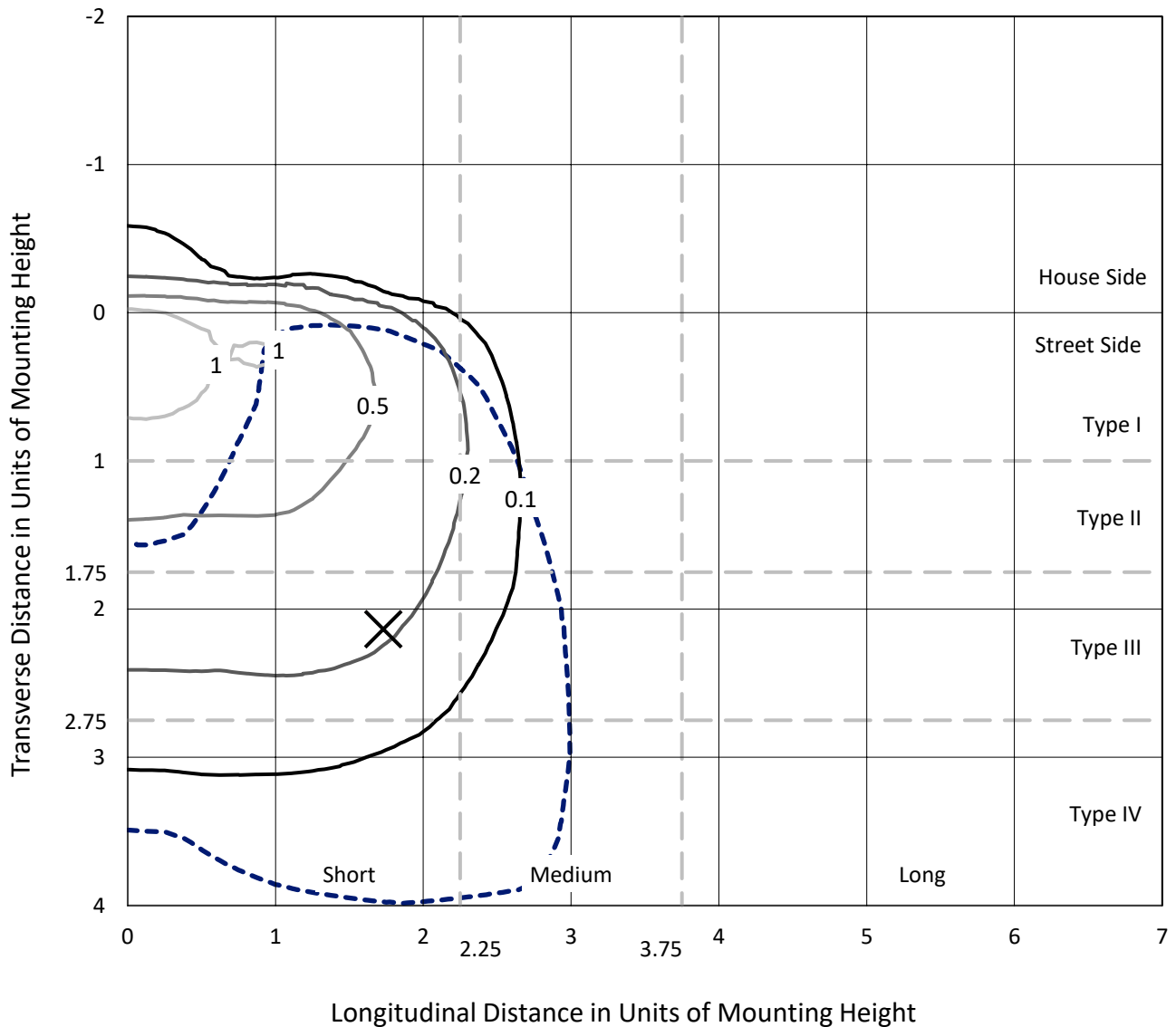
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

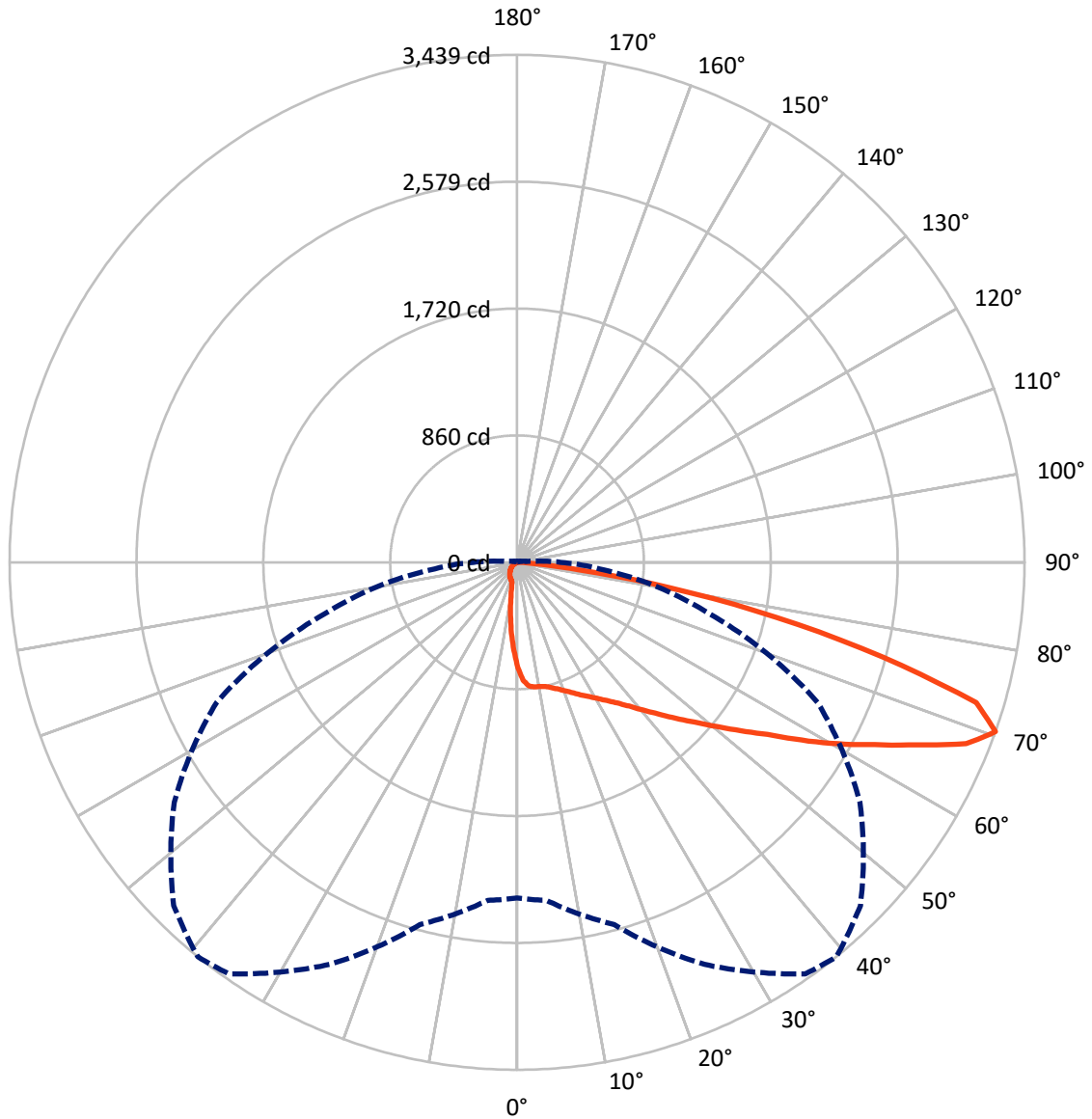
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	298.8	0.0	298.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	4283.3	0.0	4283.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	4582.1	0.0	4582.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	1.3
10°-20°	158.5	3.5
20°-30°	265.5	5.8
30°-40°	411.7	9.0
40°-50°	652.5	14.2
50°-60°	956.4	20.9
60°-70°	1225.9	26.8
70°-80°	770.3	16.8
80°-90°	80.3	1.8
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°	4582.1	100.0
0°-180°	4582.1	100.0

Coefficient of Utilization



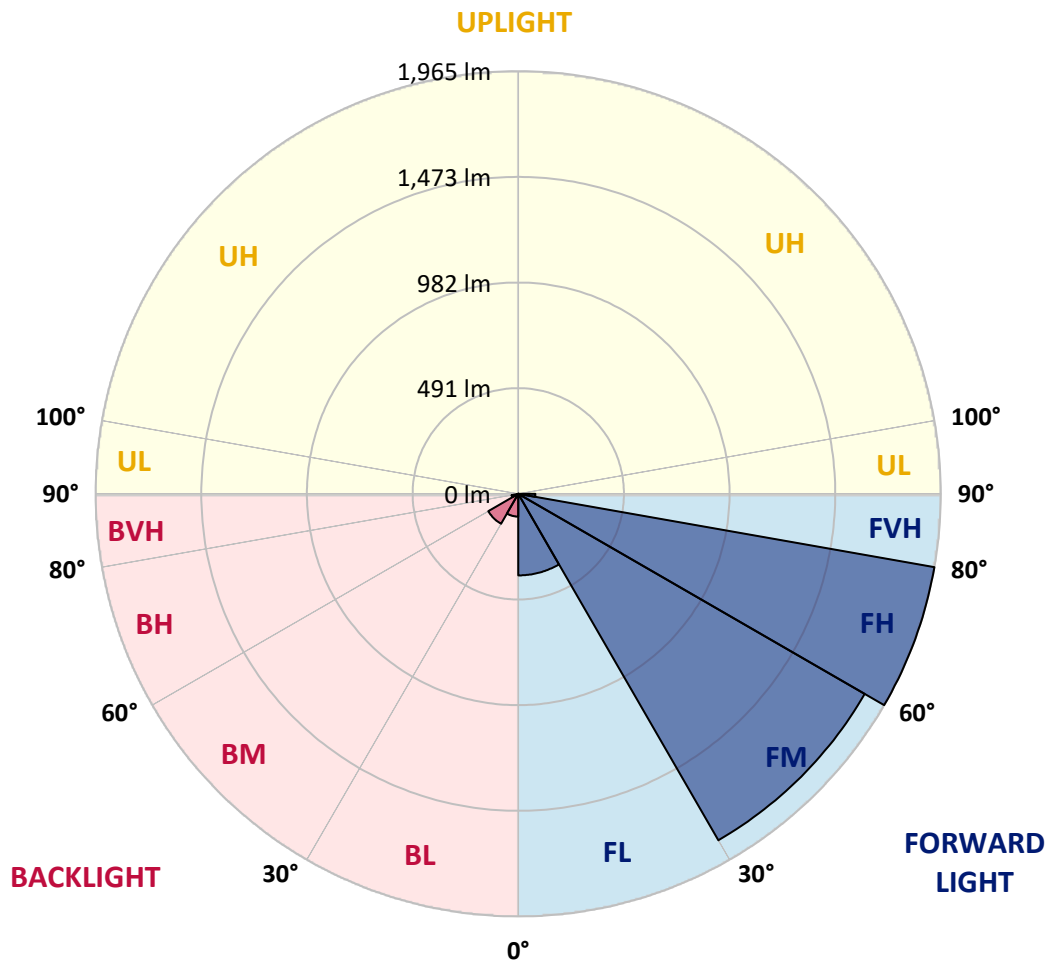
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.1	8.3			
FM (30°-60°)	1859.9	40.6			
FH (60°-80°)	1964.7	42.9			G2/5000
FVH (80°-90°)	79.7	1.7			G1/100
BL (0°-30°)	105.8	2.3	B0/110		
BM (30°-60°)	160.8	3.5	B0/220		
BH (60°-80°)	31.6	0.7	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: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0
2.5°	826.1	823.3	819.6	815.3	803.0	800.9	793.5	777.8	759.0	743.6	722.4
5°	865.2	866.8	864.0	856.3	847.4	842.1	832.9	808.6	784.3	753.2	718.3
7.5°	874.1	877.3	873.8	866.5	857.9	852.3	844.9	824.0	795.6	760.2	712.5
10°	873.2	877.0	874.8	868.0	860.9	855.7	847.7	831.1	808.3	771.0	714.3
12.5°	871.7	876.6	876.3	872.9	867.1	863.1	858.2	843.4	822.2	786.7	724.5
15°	867.4	873.5	879.1	881.9	882.1	882.1	876.0	860.3	840.0	807.4	737.7
17.5°	869.2	876.3	890.2	898.2	903.7	903.1	896.6	879.7	857.2	828.6	751.6
20°	880.6	890.2	909.5	925.6	931.1	929.3	920.7	900.9	875.4	846.7	765.1
22.5°	908.7	917.3	941.6	960.3	964.3	959.4	947.1	920.3	897.2	866.5	781.5
25°	950.5	960.7	983.1	997.3	997.3	994.6	977.3	945.9	921.9	893.9	802.7
27.5°	1001.3	1009.9	1032.2	1044.8	1037.3	1029.3	1012.1	974.2	951.1	928.3	828.3
30°	1052.7	1058.3	1081.7	1087.2	1079.5	1069.3	1050.9	1013.0	992.7	975.1	865.2
32.5°	1101.4	1113.4	1132.8	1131.6	1121.1	1116.2	1099.3	1058.9	1047.5	1045.7	917.0
35°	1150.1	1159.3	1176.5	1180.8	1171.6	1170.7	1158.4	1128.5	1128.8	1140.8	997.6
37.5°	1191.9	1200.3	1220.5	1230.1	1232.0	1236.6	1231.7	1211.9	1240.0	1272.9	1104.5
40°	1227.0	1238.7	1264.6	1281.2	1300.3	1317.2	1318.2	1322.5	1378.8	1435.5	1244.0
42.5°	1254.4	1270.7	1308.3	1339.1	1382.9	1404.4	1421.6	1445.3	1540.2	1624.8	1408.4
45°	1290.1	1308.9	1355.8	1404.1	1472.4	1507.8	1531.9	1595.3	1729.8	1845.3	1577.1
47.5°	1349.3	1359.1	1406.8	1477.4	1567.3	1617.8	1664.6	1760.7	1933.4	2036.8	1717.5
50°	1425.3	1431.8	1467.8	1565.7	1682.1	1748.6	1833.9	1946.9	2144.6	2195.7	1797.0
52.5°	1509.4	1511.5	1538.6	1663.0	1810.8	1894.5	1990.0	2129.5	2316.7	2309.0	1849.6
55°	1607.0	1603.9	1627.0	1768.6	1963.2	2059.0	2170.2	2316.4	2466.1	2389.4	1879.8
57.5°	1718.8	1710.5	1732.9	1908.7	2158.4	2273.0	2386.0	2477.7	2581.9	2456.8	1894.2
60°	1835.7	1819.1	1845.9	2066.1	2388.5	2497.1	2591.0	2615.7	2703.8	2510.4	1869.3
62.5°	1929.1	1929.4	1979.3	2233.6	2624.9	2720.1	2769.9	2792.1	2808.8	2498.7	1738.2
65°	2074.7	2079.6	2159.4	2466.1	2898.7	2981.2	3015.3	2943.3	2813.4	2353.4	1541.1
67.5°	2225.0	2240.6	2386.6	2786.3	3214.9	3281.4	3237.4	2972.6	2687.7	2021.7	1168.5
70°	2273.9	2299.7	2540.3	3006.7	3404.6	3439.0	3290.0	2836.2	2246.8	1351.7	588.1
72.5°	2083.6	2125.5	2451.9	2926.4	3283.6	3253.7	2943.6	2378.6	1428.4	513.3	179.5
75°	1469.4	1487.9	2037.8	2427.5	2641.0	2556.3	2239.1	1533.4	587.5	144.1	61.5
77.5°	758.7	749.7	1211.9	1610.7	1883.5	1795.7	1466.2	793.8	222.6	60.1	38.2
80°	392.3	398.8	524.4	844.0	1149.8	1058.0	781.7	367.9	118.5	33.3	29.3
82.5°	219.9	206.3	301.5	368.6	537.6	421.6	299.9	260.5	51.8	20.0	27.7
85°	40.0	41.9	165.4	199.2	186.6	118.5	96.7	174.0	15.1	11.1	19.4
87.5°	0.6	0.6	32.0	57.2	36.3	16.6	30.5	25.0	3.1	4.3	3.4
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°	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0
2.5°	711.6	699.8	678.0	656.5	629.1	606.6	591.5	575.8	559.8	561.0	564.7
5°	699.3	678.9	635.8	590.2	546.5	507.1	468.3	433.5	419.4	406.5	407.1
7.5°	686.9	658.3	595.2	523.7	457.6	390.4	341.8	301.8	280.5	264.5	259.9
10°	681.4	643.5	558.0	459.7	365.8	292.5	230.0	197.4	172.1	164.1	166.3
12.5°	683.9	636.1	524.4	401.8	290.0	203.8	160.1	143.5	138.0	137.0	136.4
15°	688.5	630.9	491.4	337.8	213.1	151.5	134.5	131.5	130.8	130.2	130.5
17.5°	694.7	626.3	456.3	277.7	163.5	132.4	127.5	125.9	125.6	125.6	125.6
20°	700.8	621.1	417.2	224.2	136.4	125.0	121.9	121.0	120.7	120.7	120.4
22.5°	707.9	616.5	377.5	176.1	125.6	119.8	117.0	116.4	116.1	115.8	115.8
25°	718.0	610.6	335.3	144.1	118.9	114.9	112.0	111.5	111.2	109.9	110.2
27.5°	731.6	606.3	291.9	124.4	112.7	108.7	106.9	105.9	105.3	104.4	104.7
30°	750.0	602.6	245.7	113.6	105.6	102.3	100.4	99.8	99.1	98.2	98.2
32.5°	782.1	604.1	197.1	105.0	99.1	95.1	93.3	92.7	92.1	91.1	91.1
35°	830.1	613.0	157.6	97.6	91.5	87.5	85.6	85.6	84.6	83.5	83.2
37.5°	908.7	635.8	126.5	90.5	84.1	80.3	78.2	77.6	76.7	74.9	74.5
40°	1001.3	671.3	106.6	83.5	77.3	73.6	71.7	69.9	67.4	65.6	65.3
42.5°	1117.7	707.6	92.4	76.3	70.8	67.4	65.3	62.2	58.5	56.1	55.7
45°	1239.0	740.8	82.8	69.9	64.7	61.9	59.4	54.5	49.9	46.8	46.5
47.5°	1329.5	747.0	75.2	63.7	59.4	56.7	53.2	47.1	41.0	38.2	37.3
50°	1372.4	717.1	67.1	57.6	54.2	51.1	46.8	39.7	33.0	29.6	29.0
52.5°	1387.5	665.4	60.7	52.1	48.9	45.3	40.0	32.0	25.8	22.5	22.2
55°	1381.3	600.1	54.8	46.8	42.8	38.5	33.3	25.5	19.1	16.3	15.7
57.5°	1349.0	517.0	48.9	41.6	36.6	32.3	26.5	19.1	12.9	10.5	10.2
60°	1261.8	403.6	43.1	35.7	31.1	26.5	20.9	13.5	8.0	5.9	5.9
62.5°	1114.6	299.6	37.6	29.8	26.2	21.2	14.8	8.6	4.3	3.1	2.7
65°	931.5	221.0	31.4	25.2	21.8	16.6	10.5	5.2	2.2	0.9	0.6
67.5°	650.0	136.4	26.2	20.6	17.9	12.0	6.5	2.2	0.9	0.0	0.0
70°	295.3	65.0	20.0	15.7	13.5	8.6	3.4	1.3	0.6	0.0	0.0
72.5°	91.8	34.2	14.2	11.4	9.2	5.6	1.9	0.9	0.6	0.0	0.0
75°	42.5	21.8	8.9	6.2	5.2	2.7	1.3	0.6	0.3	0.0	0.0
77.5°	31.7	16.9	5.2	3.4	2.7	1.9	0.9	0.6	0.3	0.0	0.0
80°	27.7	8.6	3.1	2.2	1.6	1.3	0.6	0.3	0.0	0.0	0.0
82.5°	25.0	4.3	1.9	1.3	0.9	0.6	0.3	0.3	0.0	0.0	0.0
85°	13.5	2.4	1.3	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.4	1.3	0.9	0.6	0.6	0.3	0.3	0.3	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)