

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: P458590

Luminaire Tested: **GALN-SA1C-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5306 lumens
Efficiency: N/A
Efficacy: 93.1 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

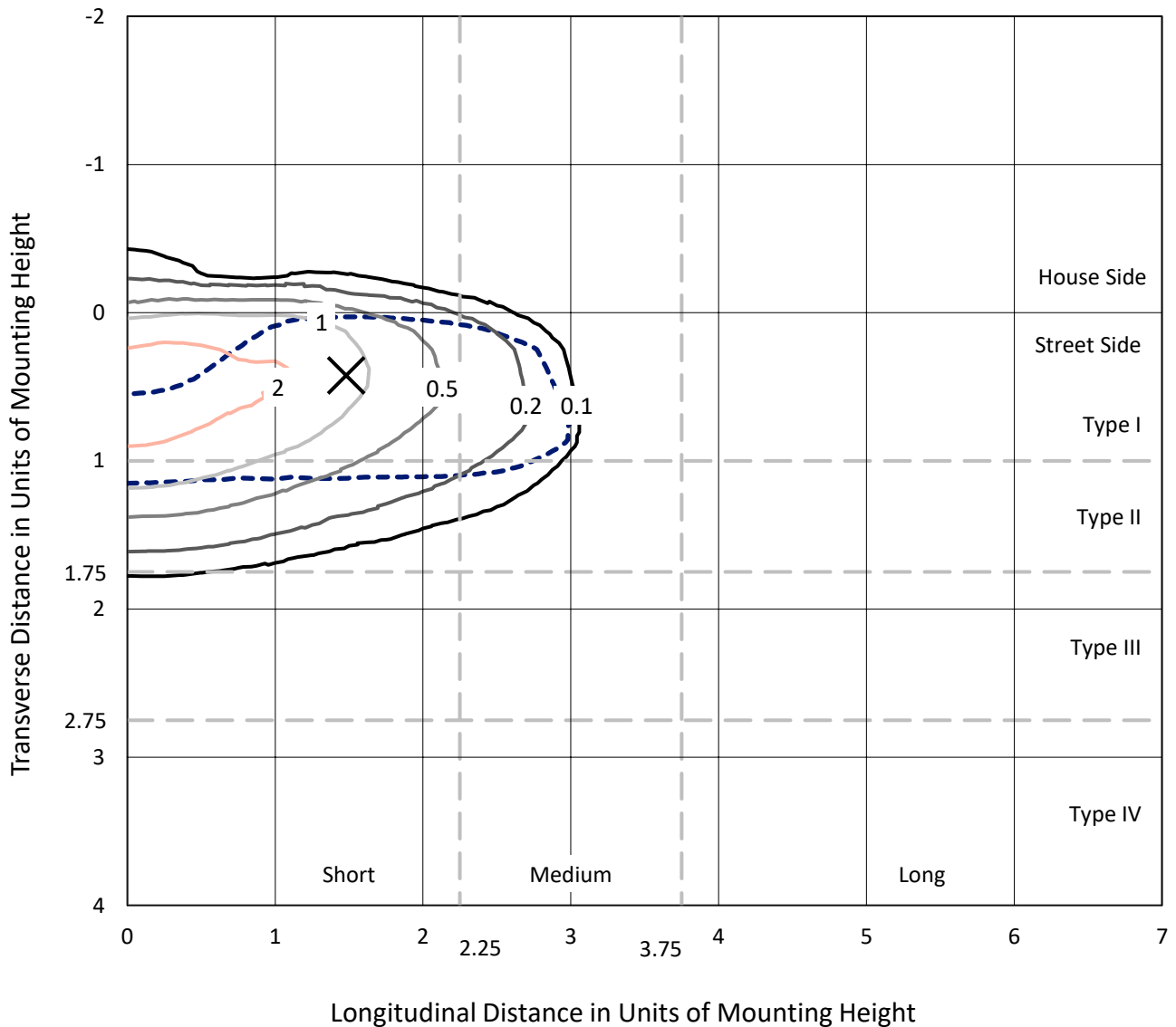
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

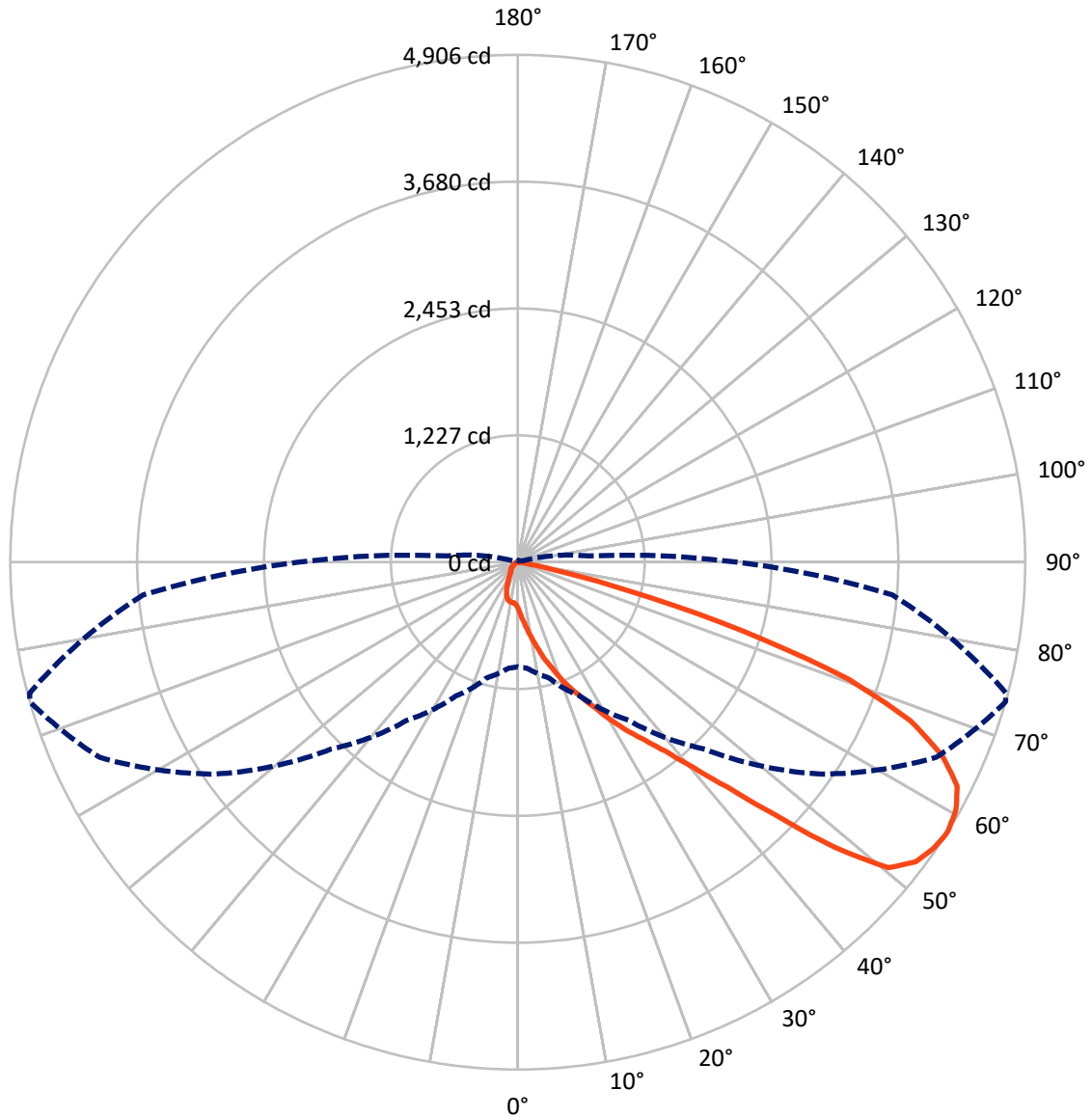
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	306.0	0.0	306.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	5000.0	0.0	5000.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	5306.0	0.0	5306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	1.0
10°-20°	211.4	4.0
20°-30°	452.4	8.5
30°-40°	831.5	15.7
40°-50°	1274.6	24.0
50°-60°	1348.4	25.4
60°-70°	880.5	16.6
70°-80°	240.6	4.5
80°-90°	13.0	0.2
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°	5306.0	100.0
0°-180°	5306.0	100.0

Coefficient of Utilization



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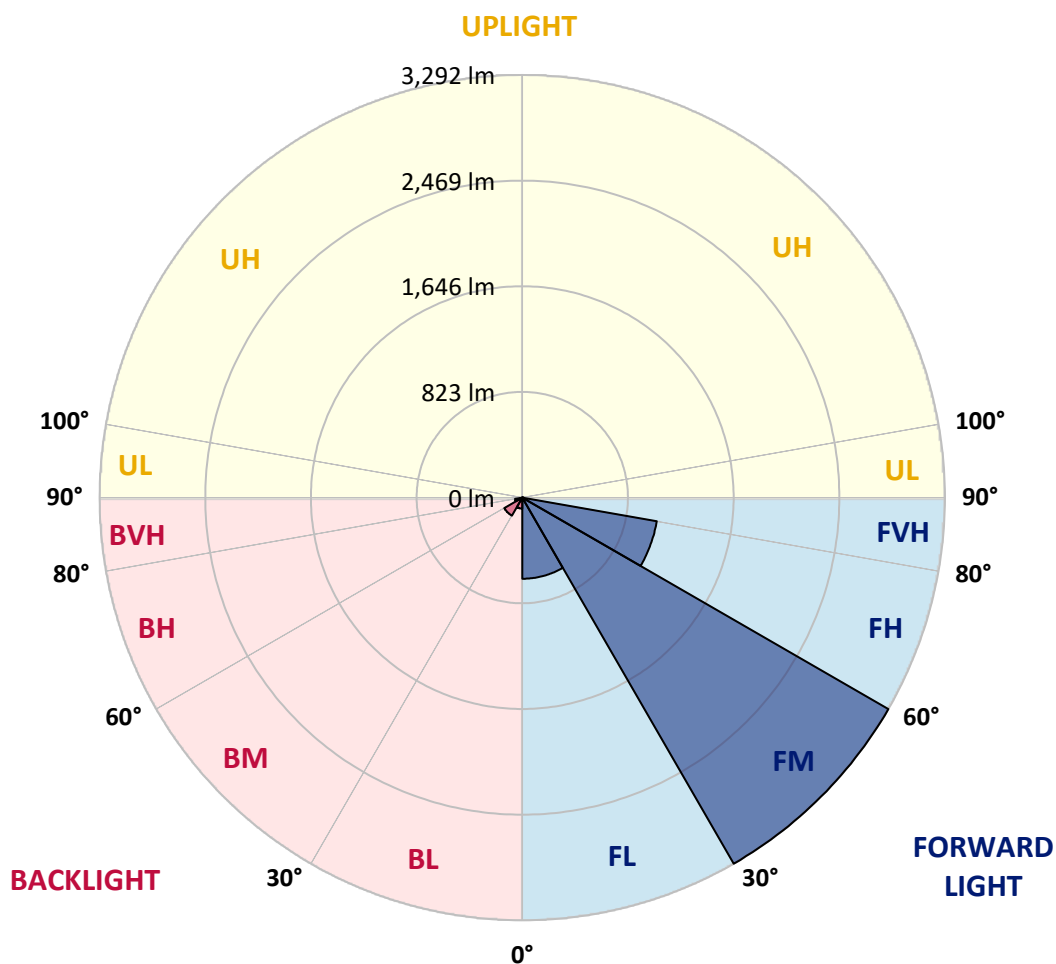
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	631.9	11.9			
FM (30°-60°)	3292.5	62.1			
FH (60°-80°)	1063.7	20.0			G1/1800
FVH (80°-90°)	11.9	0.2			G1/100
BL (0°-30°)	85.5	1.6	B0/110		
BM (30°-60°)	162.0	3.1	B0/220		
BH (60°-80°)	57.5	1.1	B0/110		G0/110
BVH (80°-90°)	1.1	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°	74°	75°	85°
0°	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4
2.5°	650.3	644.4	632.7	628.6	611.4	584.7	561.2	529.7	504.8	502.3	472.2
5°	870.8	857.6	852.1	825.7	784.3	745.5	678.8	628.3	570.0	565.6	505.2
7.5°	1083.3	1065.0	1059.5	1034.5	986.2	925.0	838.6	746.6	654.3	645.9	549.5
10°	1237.1	1239.7	1229.8	1213.3	1174.1	1111.8	1005.2	879.6	748.1	737.4	599.3
12.5°	1347.4	1347.0	1348.9	1348.5	1327.6	1280.4	1168.3	1023.6	851.4	830.5	656.5
15°	1419.2	1420.3	1425.8	1444.8	1447.0	1417.7	1324.3	1161.3	971.2	945.2	718.4
17.5°	1491.7	1499.4	1508.2	1526.2	1542.3	1530.6	1464.6	1304.9	1079.6	1060.2	784.7
20°	1611.5	1622.2	1617.0	1628.0	1636.4	1637.5	1586.6	1437.5	1211.1	1178.5	860.5
22.5°	1803.1	1802.8	1789.6	1769.8	1753.3	1752.6	1706.4	1573.8	1330.5	1299.0	936.7
25°	2045.3	2046.4	2020.7	1964.3	1923.3	1873.1	1820.0	1693.2	1458.4	1419.6	1017.0
27.5°	2323.0	2316.0	2277.2	2199.5	2118.2	2032.5	1955.9	1832.1	1593.9	1561.7	1108.9
30°	2572.4	2569.9	2524.4	2429.6	2322.6	2236.5	2125.5	2006.1	1769.4	1729.9	1211.9
32.5°	2804.7	2808.4	2745.4	2647.2	2543.9	2444.6	2327.4	2172.4	1941.6	1885.6	1324.0
35°	2986.0	2989.7	2924.5	2842.8	2736.6	2654.1	2542.4	2349.7	2111.6	2064.3	1452.9
37.5°	3082.8	3087.5	3049.8	2988.2	2921.9	2880.5	2776.5	2577.9	2318.2	2289.6	1605.3
40°	3101.1	3106.6	3090.1	3073.6	3069.9	3099.6	3069.2	2846.8	2604.7	2560.0	1832.4
42.5°	3046.1	3053.4	3060.8	3097.4	3172.1	3280.9	3386.8	3211.7	2973.6	2913.5	2110.1
45°	2901.8	2901.0	2930.0	3024.9	3192.3	3424.5	3718.7	3668.5	3476.2	3404.8	2502.5
47.5°	2654.9	2651.2	2713.8	2849.0	3109.9	3450.9	3989.4	4223.2	4117.7	4051.7	2924.1
50°	2278.6	2296.6	2395.1	2583.8	2905.1	3371.1	4073.0	4586.9	4644.1	4574.1	3264.8
52.5°	1837.9	1837.2	1991.8	2247.9	2601.7	3195.2	4014.7	4652.9	4815.2	4761.7	3432.6
55°	1360.2	1369.7	1530.6	1788.8	2207.9	2874.3	3824.6	4585.1	4880.4	4842.7	3543.2
57°	1011.8	1028.7	1157.6	1430.9	1865.0	2556.7	3571.5	4463.9	4906.0	4885.5	3635.2
57.5°	944.4	945.2	1070.8	1319.2	1764.7	2434.7	3498.9	4413.3	4905.3	4893.9	3650.2
60°	581.4	599.7	686.5	891.7	1291.7	1900.2	3012.8	4122.8	4867.2	4883.7	3714.3
62.5°	348.0	355.7	412.1	537.4	832.7	1387.0	2465.5	3751.0	4767.9	4818.1	3709.9
65°	223.8	225.7	251.3	325.3	520.6	937.5	1899.8	3259.7	4511.1	4603.4	3564.9
67.5°	172.9	175.8	186.1	213.6	301.9	583.9	1343.7	2735.5	4095.7	4214.7	3213.2
70°	153.5	155.0	158.6	167.4	199.7	329.7	836.0	2136.9	3396.3	3430.0	2514.6
72.5°	125.3	129.3	140.7	143.6	158.3	205.9	465.3	1434.2	2281.9	2290.4	1406.7
75°	97.1	97.8	114.7	123.1	133.3	141.8	207.7	723.2	1096.1	1037.5	542.2
77.5°	72.5	75.8	83.5	94.1	108.8	101.5	93.1	272.6	340.3	334.1	157.5
80°	46.5	48.4	58.2	70.7	84.6	66.3	52.4	79.9	74.7	76.9	37.7
82.5°	23.4	23.8	37.4	57.5	53.9	33.3	33.0	32.6	27.8	27.5	17.6
85°	2.6	5.5	24.2	33.0	24.2	11.0	15.4	15.0	14.7	15.0	10.3
87.5°	0.4	0.4	4.0	4.8	3.3	3.7	4.4	4.8	5.9	5.5	4.4
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°	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4
2.5°	457.6	442.9	415.8	389.8	370.4	357.9	341.8	335.9	327.5	326.4	322.4
5°	477.3	449.5	402.2	364.9	334.8	312.1	292.3	275.9	262.7	259.7	261.2
7.5°	505.5	464.2	398.2	347.3	305.5	266.7	235.2	215.8	201.9	196.7	197.5
10°	537.4	483.6	397.5	328.6	264.9	217.2	182.8	165.6	157.5	154.6	151.3
12.5°	575.2	505.9	395.6	299.7	220.2	173.3	148.7	138.5	130.8	128.6	128.6
15°	617.6	529.7	386.9	263.8	178.8	143.2	126.8	118.7	116.1	113.9	113.9
17.5°	662.0	553.2	368.5	219.4	148.4	122.7	112.5	107.7	104.0	101.5	101.5
20°	712.5	576.3	339.2	180.2	125.3	109.5	101.5	96.0	93.1	90.9	90.1
22.5°	760.5	594.9	301.9	148.0	109.2	98.5	91.2	85.4	82.4	81.3	81.3
25°	810.3	606.3	256.8	122.4	99.6	89.4	81.3	76.6	74.0	73.3	72.9
27.5°	858.7	612.9	217.2	107.0	90.9	81.0	73.3	69.6	67.0	66.3	66.7
30°	917.3	614.0	178.8	96.0	83.2	72.9	65.9	62.6	61.2	60.4	60.1
32.5°	976.7	612.5	150.2	89.4	75.8	65.9	60.1	57.5	56.4	55.3	55.3
35°	1043.3	604.8	127.9	82.8	68.9	60.1	55.0	52.8	51.3	50.2	49.8
37.5°	1126.1	600.8	115.0	75.5	62.6	54.6	49.8	47.6	46.5	45.1	44.7
40°	1256.5	618.7	111.0	68.9	56.4	49.5	45.1	42.5	41.0	39.6	39.2
42.5°	1419.2	650.3	104.4	62.3	50.9	44.7	40.3	37.4	34.8	33.0	32.2
45°	1629.8	691.7	94.1	55.3	46.2	39.6	35.5	31.9	28.6	27.1	26.7
47.5°	1850.8	731.6	85.0	49.8	41.0	35.2	30.8	26.7	23.8	22.7	22.3
50°	1986.3	739.6	79.1	43.6	35.9	30.4	26.0	22.3	20.5	19.4	19.4
52.5°	2048.2	726.8	71.1	38.1	31.1	26.7	22.3	19.4	18.3	17.6	17.2
55°	2091.4	707.0	60.4	33.0	26.7	22.7	19.8	17.6	16.1	15.4	15.0
57°	2116.7	680.3	52.4	28.9	23.1	19.8	17.6	15.8	14.3	12.8	12.8
57.5°	2117.8	670.0	50.2	28.6	22.0	19.0	17.2	15.4	13.6	12.1	11.7
60°	2085.2	599.7	40.3	24.2	17.6	16.1	14.3	12.1	9.5	8.1	7.7
62.5°	1980.4	510.3	33.3	20.5	14.3	12.5	10.3	9.2	6.6	4.8	4.8
65°	1821.8	414.0	28.6	16.5	11.7	9.2	7.0	6.6	4.0	2.2	1.8
67.5°	1592.5	322.4	24.2	13.6	9.9	6.6	4.8	4.4	2.2	0.7	0.0
70°	1213.3	219.8	20.1	11.0	7.3	4.8	3.3	2.6	1.5	0.4	0.0
72.5°	699.3	120.9	16.9	8.4	5.5	3.7	2.6	1.5	1.5	0.0	0.0
75°	249.8	52.0	12.8	6.2	4.4	2.9	1.8	0.7	1.1	0.4	0.0
77.5°	79.5	27.8	8.4	4.8	3.7	2.2	1.5	0.7	0.7	0.4	0.0
80°	23.4	14.7	5.1	4.0	2.6	1.8	1.1	0.4	0.7	0.4	0.0
82.5°	12.8	7.3	4.0	2.9	2.6	1.5	1.1	0.4	0.4	0.4	0.0
85°	6.6	4.4	3.3	2.9	2.6	1.5	1.1	0.4	0.0	0.4	0.4
87.5°	3.7	3.3	3.3	2.9	2.6	1.8	1.1	0.4	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)