

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: P646721

Luminaire Tested: **GALN-SA1C-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4558.6 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

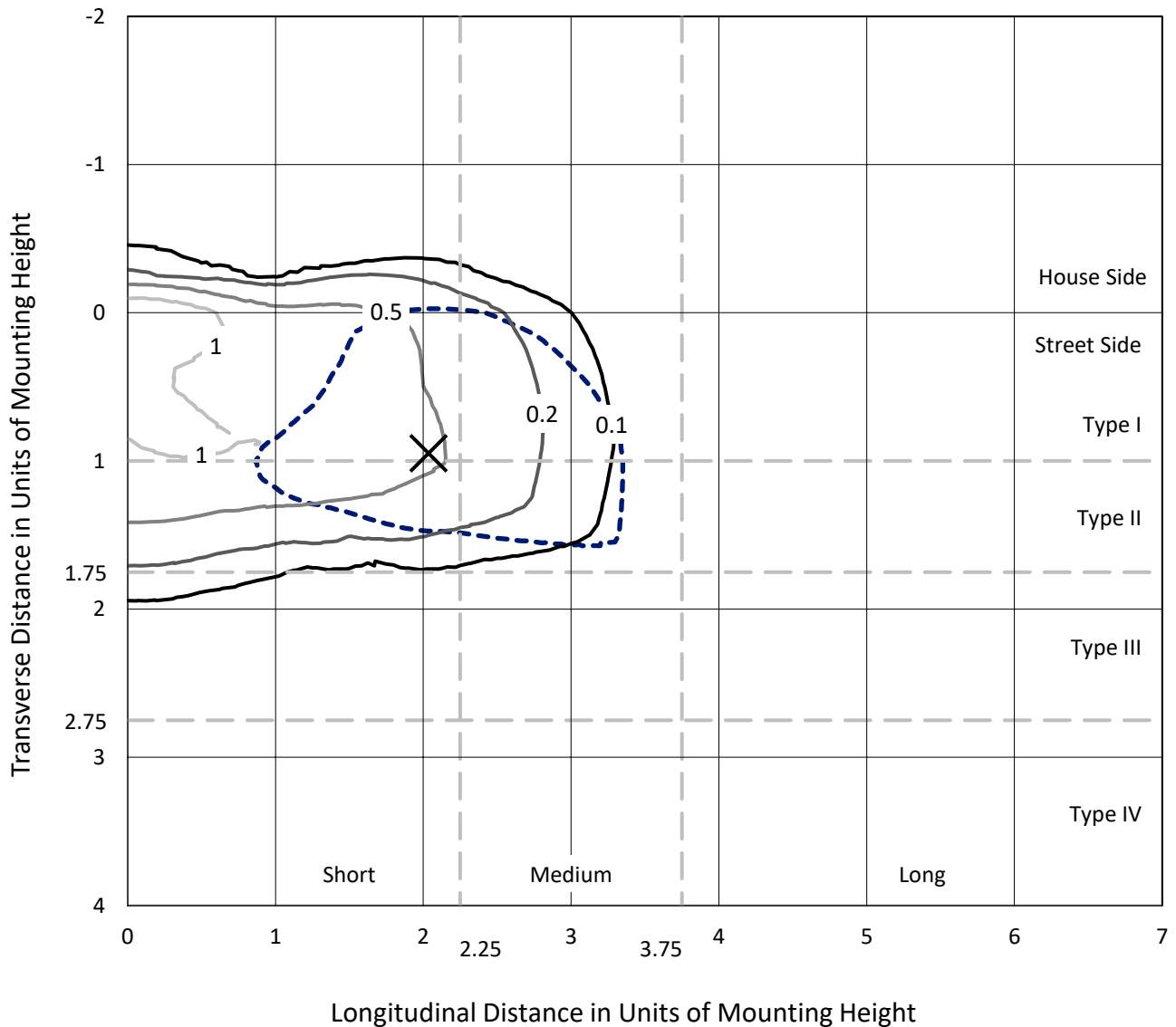
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

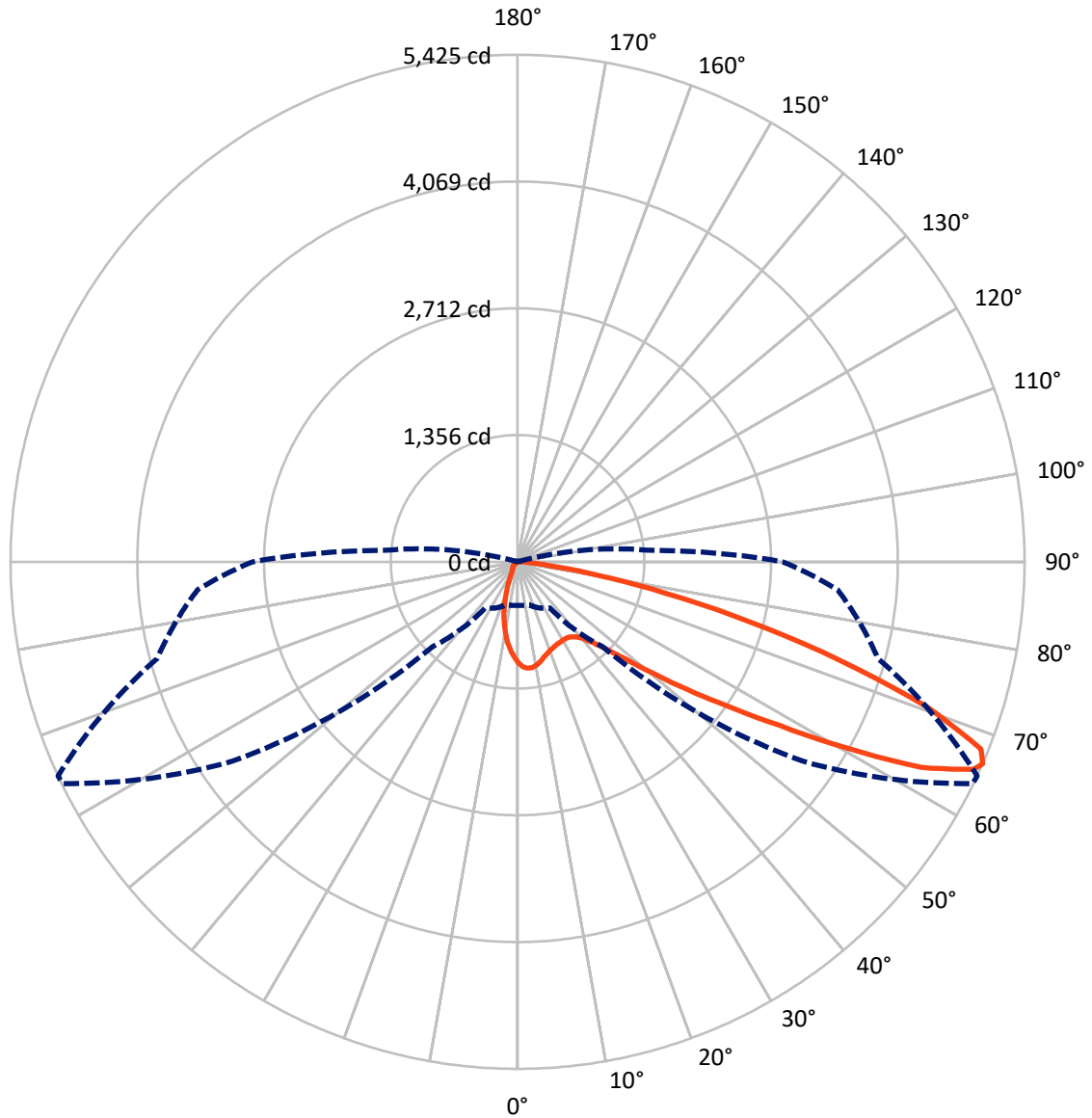
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	471.4	0.0	471.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4087.2	0.0	4087.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	4558.6	0.0	4558.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	1.9
10°-20°	192.6	4.2
20°-30°	275.9	6.1
30°-40°	403.0	8.8
40°-50°	675.8	14.8
50°-60°	1127.9	24.7
60°-70°	1197.2	26.3
70°-80°	542.2	11.9
80°-90°	55.5	1.2
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°	4558.6	100.0
0°-180°	4558.6	100.0

Coefficient of Utilization



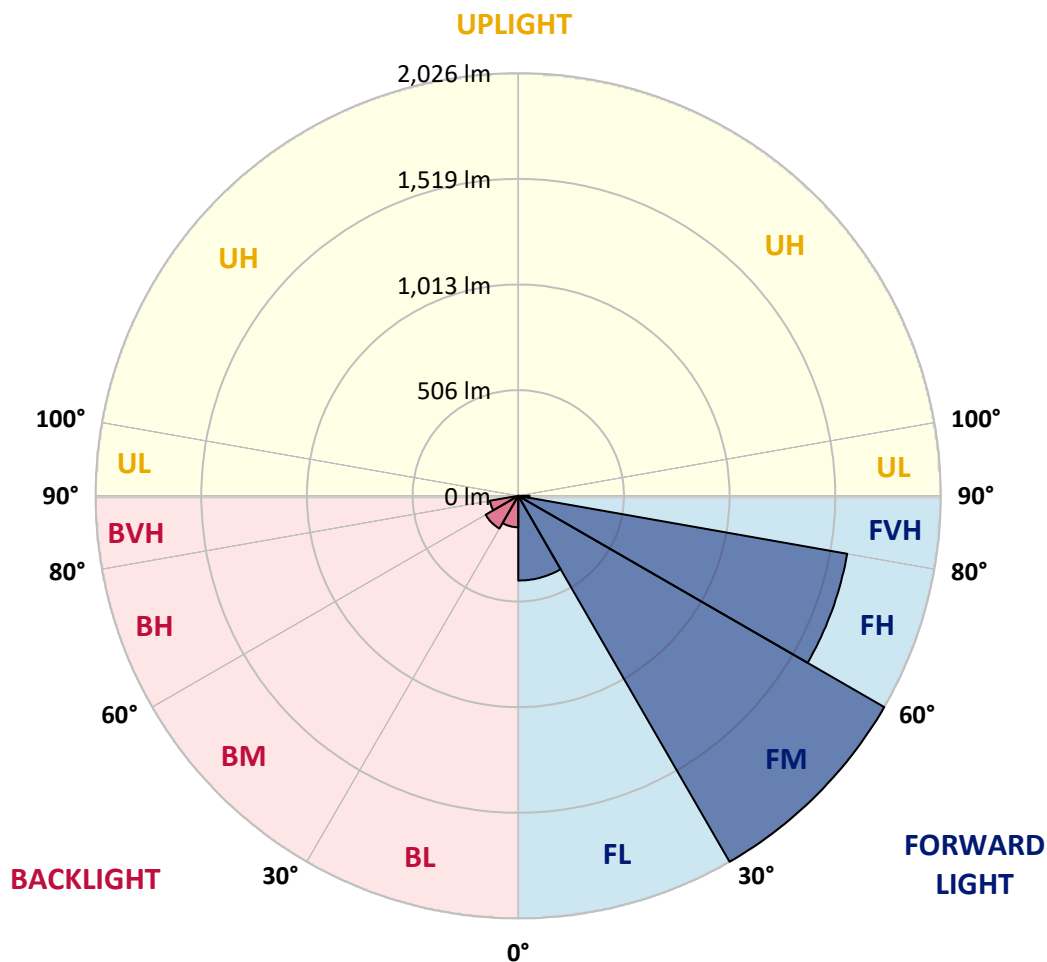
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.2	8.9			
FM (30°-60°)	2026.0	44.4			
FH (60°-80°)	1601.3	35.1			G1/1800
FVH (80°-90°)	53.7	1.2			G1/100
BL (0°-30°)	150.8	3.3	B1/500		
BM (30°-60°)	180.8	4.0	B0/220		
BH (60°-80°)	138.1	3.0	B1/500		G1/500
BVH (80°-90°)	1.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0
2.5°	1139.2	1140.4	1142.0	1144.1	1145.7	1141.1	1134.6	1127.2	1125.6	1110.0	1090.9
5°	1078.3	1080.1	1093.6	1101.1	1117.7	1132.8	1142.3	1143.5	1142.9	1128.1	1097.6
7.5°	991.4	996.7	1009.9	1022.8	1053.9	1082.6	1116.4	1140.1	1141.7	1137.7	1099.8
10°	920.9	924.3	931.1	956.6	982.5	1026.2	1073.6	1118.3	1122.0	1138.0	1097.9
12.5°	865.8	870.7	879.1	898.7	929.8	971.1	1024.9	1085.0	1092.8	1132.1	1092.8
15°	827.3	829.7	838.1	857.5	887.7	925.8	980.3	1050.2	1057.0	1124.5	1091.8
17.5°	809.2	811.9	817.8	833.2	858.1	893.5	946.8	1022.2	1030.8	1119.5	1095.2
20°	814.1	816.5	816.8	824.8	841.8	871.6	922.1	996.1	1007.1	1116.4	1100.7
22.5°	842.1	842.4	838.7	835.0	840.9	862.4	907.0	979.4	990.8	1115.8	1107.2
25°	883.9	884.9	878.8	865.8	854.1	865.2	903.7	968.6	978.8	1114.3	1111.2
27.5°	941.9	941.6	939.7	918.1	884.9	877.5	906.5	962.8	971.4	1110.0	1112.7
30°	1022.8	1020.3	1016.3	992.1	941.2	907.3	918.1	959.1	967.1	1103.8	1108.7
32.5°	1102.5	1111.8	1111.2	1088.1	1024.7	960.7	942.5	964.0	969.9	1099.8	1102.9
35°	1195.6	1195.2	1219.0	1210.4	1136.1	1028.7	984.0	980.3	984.9	1102.5	1100.1
37.5°	1281.8	1289.8	1326.7	1335.6	1267.9	1124.7	1042.9	1015.5	1017.0	1121.3	1106.8
40°	1389.2	1404.6	1459.7	1489.6	1429.8	1267.3	1129.6	1079.8	1080.1	1167.5	1132.5
42.5°	1527.8	1552.1	1603.5	1653.4	1621.4	1436.0	1259.9	1181.7	1181.1	1248.8	1190.9
45°	1696.2	1713.1	1771.6	1850.8	1830.4	1671.5	1449.6	1339.6	1331.6	1382.2	1294.7
47.5°	1841.5	1864.6	1924.1	2014.3	2106.6	1959.1	1676.2	1556.7	1551.5	1594.3	1472.7
50°	1905.0	1925.2	1987.8	2114.3	2338.1	2336.6	2013.6	1873.6	1864.6	1887.7	1747.9
52.5°	1835.4	1854.5	1917.6	2075.2	2447.1	2796.6	2502.5	2271.0	2260.3	2230.7	2076.8
55°	1597.1	1612.7	1706.1	1887.1	2405.3	3103.3	3176.2	2762.1	2720.2	2605.4	2449.0
57.5°	1271.6	1263.6	1321.5	1531.8	2159.6	3206.1	3867.8	3373.9	3299.1	2929.3	2764.0
60°	881.2	905.9	929.3	1067.8	1623.9	3027.9	4297.9	4143.0	4044.5	3248.0	3065.7
62.5°	647.8	664.1	679.5	743.5	1021.0	2417.6	4373.9	4933.1	4845.7	3586.4	3353.6
65°	512.3	513.6	519.8	582.9	672.8	1572.1	4008.5	5378.6	5356.1	3912.1	3470.3
66°	466.7	467.1	476.6	544.3	603.8	1280.2	3715.6	5412.5	5424.8	3990.3	3436.1
67.5°	407.9	406.7	420.5	489.2	549.9	923.1	3191.7	5275.1	5348.1	4050.4	3313.3
70°	316.2	314.7	331.6	410.4	506.5	615.8	2121.4	4529.4	4647.0	3927.5	2931.5
72.5°	210.6	211.8	240.8	323.9	483.4	542.2	1276.2	3445.7	3611.9	3243.3	2306.2
75°	122.9	125.0	157.9	240.8	419.7	516.9	722.3	2457.0	2563.2	2239.6	1436.6
77.5°	64.4	65.3	88.4	158.9	321.7	480.0	481.2	1569.7	1619.6	1088.4	568.7
80°	34.1	33.3	47.4	95.8	221.4	421.5	390.4	831.0	864.0	323.3	143.8
82.5°	12.9	14.2	25.2	62.8	130.8	302.6	336.2	367.3	356.0	71.1	60.4
85°	2.4	3.1	10.8	37.3	65.9	126.5	247.8	180.1	166.9	26.8	34.8
87.5°	0.3	0.6	3.1	8.9	9.6	42.8	73.3	49.9	43.1	9.9	14.5
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°	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0
2.5°	1081.6	1073.3	1045.6	1018.2	990.2	965.0	947.7	919.7	912.6	902.4	896.6
5°	1079.4	1060.1	1006.8	948.6	894.4	835.9	791.3	748.2	725.1	713.4	709.1
7.5°	1073.3	1042.6	959.4	868.3	781.4	694.0	617.9	560.1	522.8	497.3	480.0
10°	1061.0	1018.5	904.3	779.0	647.8	532.4	436.0	362.7	306.1	288.2	288.8
12.5°	1048.4	991.7	842.7	679.8	517.2	371.6	269.4	211.5	184.4	175.5	173.7
15°	1036.7	966.1	782.4	583.8	385.2	240.8	173.7	153.3	146.0	144.4	144.1
17.5°	1030.5	942.5	718.0	473.9	268.8	163.5	139.1	133.7	131.5	129.9	129.4
20°	1025.3	921.8	656.5	371.0	183.8	134.0	124.7	119.5	115.8	114.2	113.3
22.5°	1021.6	900.6	592.7	287.3	140.7	118.9	110.6	103.7	98.5	96.7	95.4
25°	1016.0	877.2	528.4	210.0	118.5	105.6	96.1	88.1	81.3	77.9	77.3
27.5°	1008.0	850.7	457.8	155.5	105.9	93.9	82.2	72.3	65.6	61.9	62.2
30°	995.1	823.0	387.4	123.5	95.8	81.9	69.3	59.7	53.2	50.5	50.2
32.5°	979.7	789.4	322.7	105.9	86.5	71.1	57.9	49.6	44.6	42.5	42.2
35°	965.3	755.6	256.7	95.1	77.0	61.3	48.6	41.6	37.9	36.0	36.3
37.5°	957.2	725.4	200.1	86.5	69.3	52.6	41.9	35.7	32.3	30.8	30.5
40°	962.5	700.8	159.2	78.8	60.7	45.3	36.0	30.8	27.4	25.2	25.2
42.5°	987.1	690.0	128.4	71.4	52.6	39.1	31.4	26.5	22.8	20.6	20.9
45°	1062.2	701.4	107.4	64.7	45.3	33.9	27.1	21.8	18.5	16.9	16.6
47.5°	1186.9	744.2	93.0	57.6	38.8	29.0	22.8	18.2	14.8	13.5	13.2
50°	1404.9	832.6	82.2	50.5	33.0	24.7	18.8	14.5	11.7	10.5	10.5
52.5°	1704.8	1025.3	74.5	42.5	27.7	20.9	15.4	11.7	9.2	8.3	8.0
55°	2018.3	1228.5	70.5	35.7	23.1	17.2	12.3	9.2	7.0	6.2	5.9
57.5°	2319.7	1388.0	65.9	29.0	18.5	13.2	9.6	7.0	4.9	4.3	4.0
60°	2608.8	1517.0	56.1	23.1	14.5	9.6	7.0	4.9	3.4	2.7	2.7
62.5°	2867.4	1592.2	44.0	18.5	11.1	6.8	4.6	3.7	2.4	1.9	1.9
65°	2897.6	1494.5	33.3	14.2	8.0	4.3	2.7	2.7	1.9	1.3	1.3
66°	2837.0	1411.7	29.3	12.9	7.0	3.7	2.4	2.2	1.6	0.9	0.9
67.5°	2701.5	1270.3	25.2	11.1	5.9	2.7	1.9	1.9	1.3	0.6	0.6
70°	2334.1	1037.6	20.0	8.3	4.3	2.2	1.3	1.3	0.9	0.6	0.6
72.5°	1779.1	774.7	16.3	6.2	3.1	1.6	0.9	0.9	0.9	0.6	0.6
75°	1073.0	417.2	12.6	4.6	2.7	1.3	0.6	0.9	1.3	0.9	0.6
77.5°	395.3	142.0	9.9	3.7	2.2	1.3	0.6	0.6	1.3	0.9	0.9
80°	97.0	37.0	7.0	3.1	2.2	1.3	0.6	0.6	1.3	1.3	1.3
82.5°	44.9	15.7	4.9	2.7	2.2	1.3	0.6	0.6	0.9	1.3	1.3
85°	25.8	7.4	4.0	3.1	2.2	1.3	0.6	0.6	0.9	1.3	1.3
87.5°	10.5	3.7	3.7	3.1	2.4	1.6	0.6	0.6	0.6	0.9	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

(END OF REPORT)