

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: P450428

Luminaire Tested: **GALN-SA1B-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450428
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-SA1B-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 3941 lumens
Efficiency: N/A
Efficacy: 89.6 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

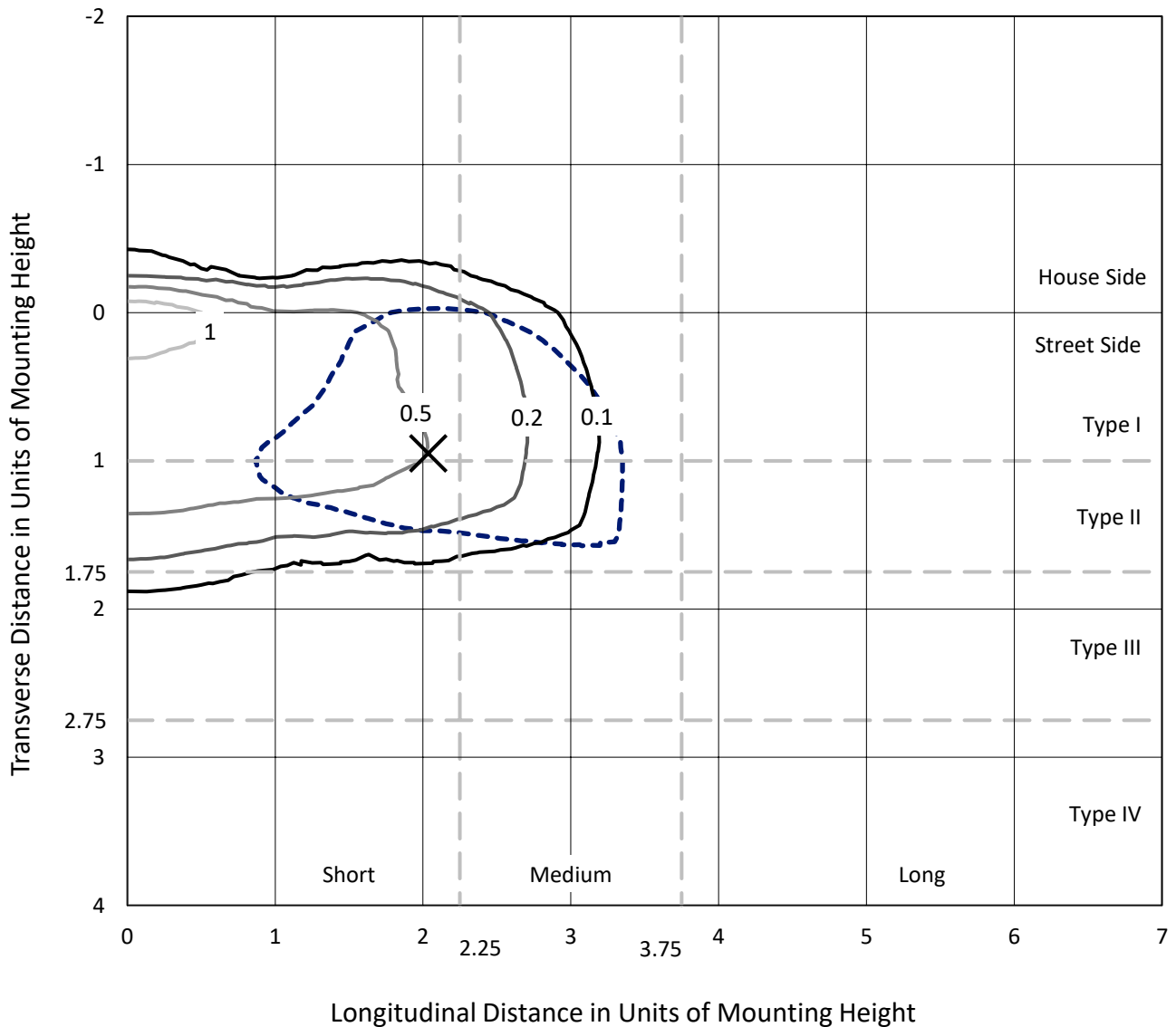
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

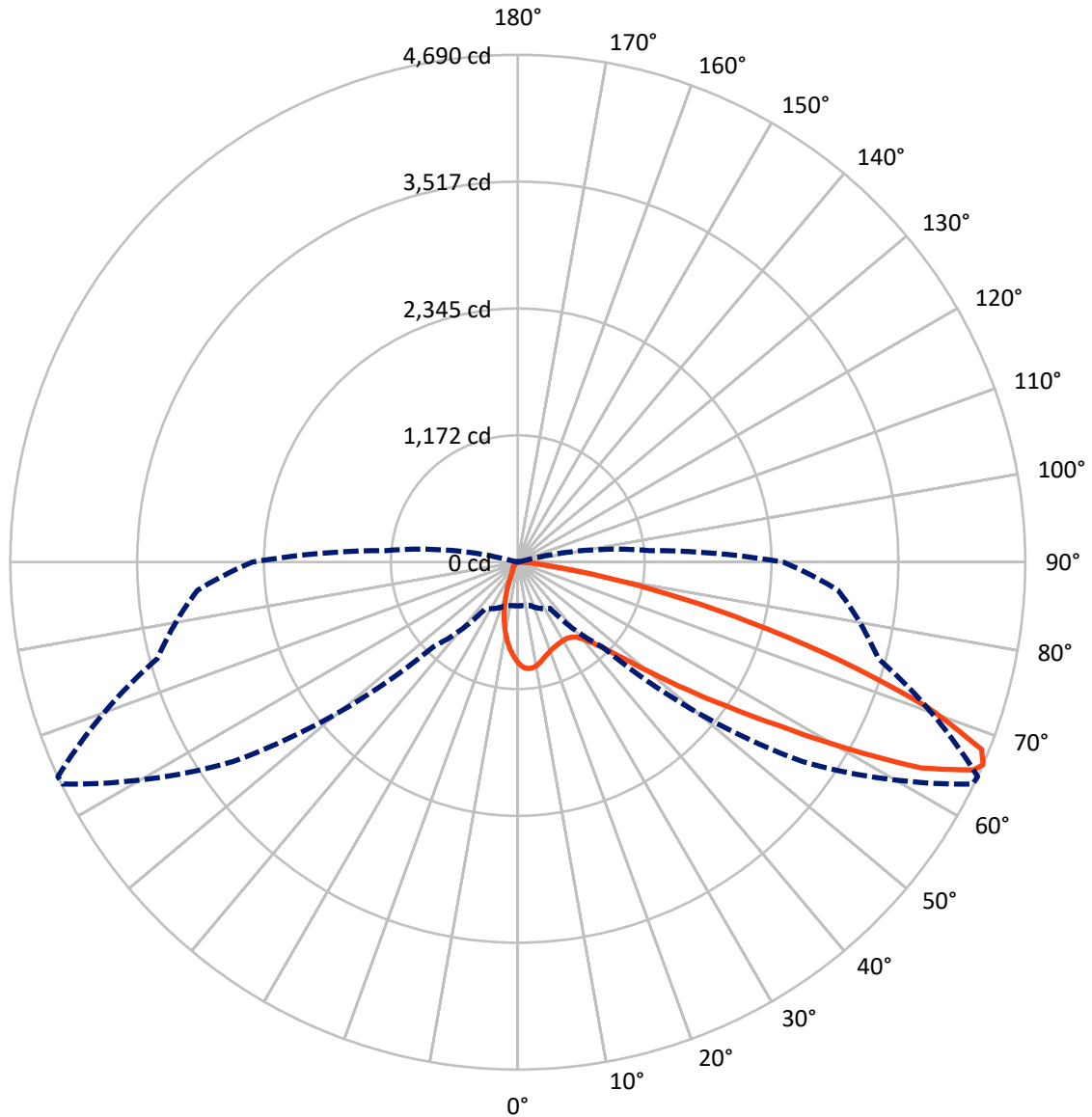
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	407.6	0.0	407.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3533.5	0.0	3533.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	3941.0	0.0	3941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	1.9
10°-20°	166.5	4.2
20°-30°	238.6	6.1
30°-40°	348.4	8.8
40°-50°	584.3	14.8
50°-60°	975.1	24.7
60°-70°	1035.0	26.3
70°-80°	468.7	11.9
80°-90°	48.0	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°	3941.0	100.0
0°-180°	3941.0	100.0

Coefficient of Utilization



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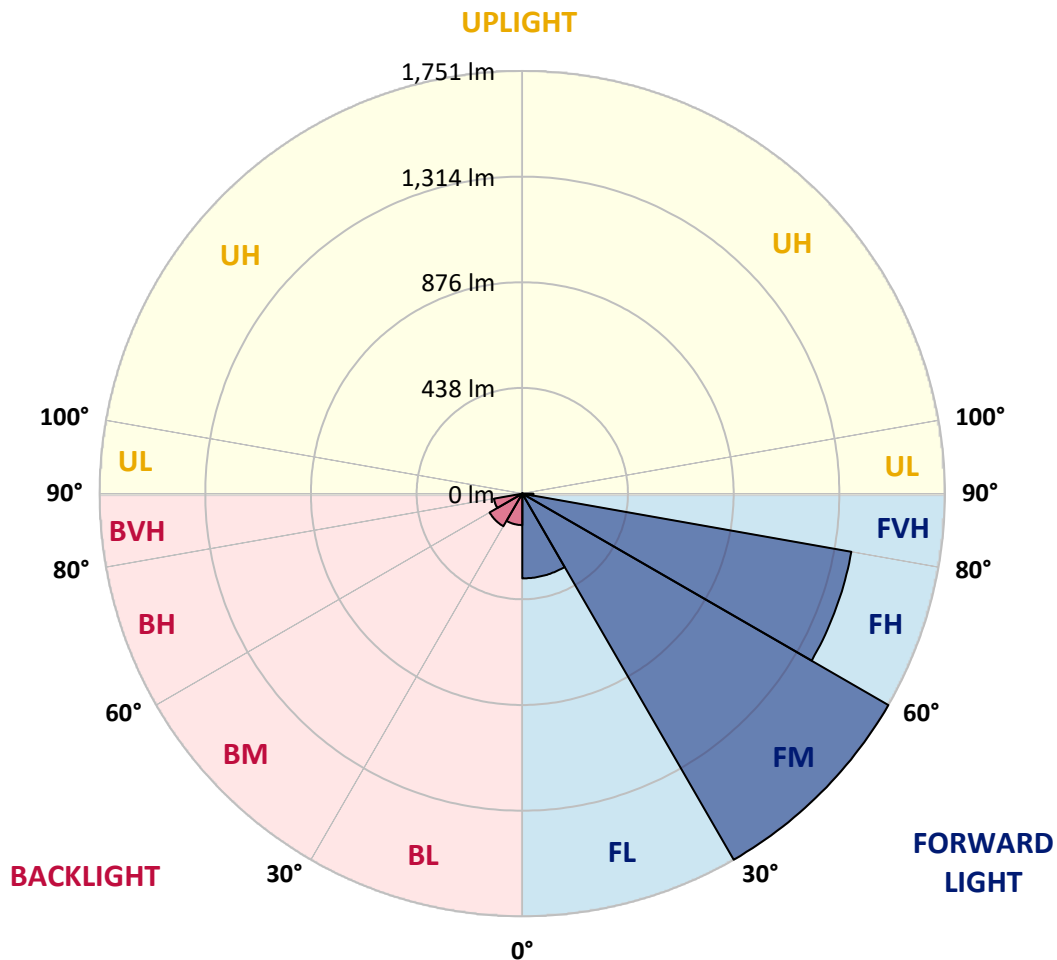
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.2	8.9			
FM (30°-60°)	1751.5	44.4			
FH (60°-80°)	1384.4	35.1			G1/1800
FVH (80°-90°)	46.4	1.2			G1/100
BL (0°-30°)	130.4	3.3	B1/500		
BM (30°-60°)	156.3	4.0	B0/220		
BH (60°-80°)	119.4	3.0	B1/500		G1/500
BVH (80°-90°)	1.5	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°	934.6	934.6	934.6	934.6	934.6	934.6	934.6	934.6	934.6	934.6	934.6
2.5°	984.9	985.9	987.3	989.1	990.5	986.5	980.9	974.5	973.2	959.6	943.1
5°	932.2	933.8	945.5	951.9	966.2	979.3	987.5	988.6	988.1	975.3	948.9
7.5°	857.1	861.6	873.1	884.2	911.1	935.9	965.2	985.7	987.0	983.5	950.8
10°	796.1	799.1	804.9	827.0	849.4	887.2	928.2	966.8	970.0	983.8	949.2
12.5°	748.5	752.8	759.9	777.0	803.9	839.5	886.1	938.0	944.7	978.7	944.7
15°	715.2	717.4	724.5	741.3	767.4	800.4	847.5	907.9	913.8	972.1	943.9
17.5°	699.5	701.9	707.0	720.3	741.8	772.5	818.5	883.7	891.2	967.8	946.8
20°	703.8	705.9	706.2	713.1	727.7	753.6	797.2	861.1	870.7	965.2	951.6
22.5°	728.0	728.3	725.1	721.9	726.9	745.6	784.2	846.7	856.6	964.6	957.2
25°	764.2	765.0	759.7	748.5	738.4	748.0	781.2	837.4	846.2	963.3	960.6
27.5°	814.2	814.0	812.4	793.7	765.0	758.6	783.6	832.3	839.8	959.6	962.0
30°	884.2	882.1	878.7	857.6	813.7	784.4	793.7	829.1	836.1	954.3	958.5
32.5°	953.2	961.2	960.6	940.7	885.8	830.5	814.8	833.4	838.5	950.8	953.5
35°	1033.6	1033.3	1053.8	1046.4	982.2	889.3	850.7	847.5	851.5	953.2	951.1
37.5°	1108.1	1115.0	1147.0	1154.7	1096.1	972.4	901.6	877.9	879.2	969.4	956.9
40°	1201.0	1214.3	1262.0	1287.8	1236.1	1095.6	976.6	933.5	933.8	1009.4	979.0
42.5°	1320.8	1341.8	1386.3	1429.4	1401.7	1241.5	1089.2	1021.6	1021.1	1079.6	1029.6
45°	1466.4	1481.0	1531.6	1600.0	1582.4	1445.1	1253.2	1158.1	1151.2	1194.9	1119.3
47.5°	1592.0	1612.0	1663.4	1741.3	1821.2	1693.7	1449.1	1345.8	1341.3	1378.3	1273.1
50°	1646.9	1664.4	1718.5	1827.9	2021.4	2020.0	1740.8	1619.7	1612.0	1631.9	1511.1
52.5°	1586.7	1603.2	1657.8	1794.1	2115.6	2417.7	2163.5	1963.3	1954.0	1928.5	1795.4
55°	1380.7	1394.2	1474.9	1631.4	2079.4	2682.8	2745.9	2387.9	2351.7	2252.4	2117.2
57.5°	1099.3	1092.4	1142.4	1324.2	1867.0	2771.7	3343.7	2916.8	2852.1	2532.4	2389.5
60°	761.8	783.1	803.3	923.1	1403.8	2617.6	3715.6	3581.7	3496.5	2807.9	2650.3
62.5°	560.0	574.1	587.5	642.8	882.7	2090.0	3781.3	4264.7	4189.1	3100.5	2899.2
65°	442.9	444.0	449.3	503.9	581.6	1359.1	3465.4	4649.9	4630.5	3382.1	3000.1
66°	403.5	403.8	412.0	470.6	522.0	1106.8	3212.3	4679.2	4689.8	3449.7	2970.6
67.5°	352.7	351.6	363.6	423.0	475.4	798.0	2759.2	4560.5	4623.5	3501.6	2864.4
70°	273.4	272.0	286.7	354.8	437.9	532.4	1834.0	3915.8	4017.4	3395.4	2534.3
72.5°	182.1	183.1	208.2	280.0	417.9	468.7	1103.3	2978.8	3122.6	2803.9	1993.7
75°	106.2	108.1	136.6	208.2	362.8	446.9	624.5	2124.1	2215.9	1936.2	1242.0
77.5°	55.6	56.4	76.4	137.3	278.2	415.0	416.0	1357.0	1400.1	940.9	491.6
80°	29.5	28.7	41.0	82.8	191.4	364.4	337.5	718.4	746.9	279.5	124.3
82.5°	11.2	12.2	21.8	54.3	113.1	261.7	290.7	317.6	307.7	61.5	52.2
85°	2.1	2.7	9.3	32.2	57.0	109.4	214.3	155.7	144.3	23.2	30.1
87.5°	0.3	0.5	2.7	7.7	8.3	37.0	63.4	43.1	37.3	8.5	12.5
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°	934.6	934.6	934.6	934.6	934.6	934.6	934.6	934.6	934.6	934.6	934.6
2.5°	935.1	927.9	903.9	880.3	856.0	834.2	819.3	795.1	789.0	780.2	775.1
5°	933.2	916.5	870.4	820.1	773.3	722.7	684.1	646.8	626.9	616.7	613.0
7.5°	927.9	901.3	829.4	750.6	675.6	600.0	534.2	484.2	452.0	429.9	415.0
10°	917.3	880.5	781.8	673.4	560.0	460.2	376.9	313.6	264.6	249.1	249.7
12.5°	906.3	857.4	728.5	587.7	447.2	321.3	232.9	182.9	159.4	151.7	150.1
15°	896.2	835.3	676.4	504.7	333.0	208.2	150.1	132.6	126.2	124.8	124.6
17.5°	890.9	814.8	620.7	409.7	232.4	141.3	120.3	115.5	113.7	112.3	111.8
20°	886.4	796.9	567.5	320.7	158.9	115.8	107.8	103.3	100.1	98.8	98.0
22.5°	883.2	778.6	512.4	248.3	121.6	102.7	95.6	89.7	85.2	83.6	82.5
25°	878.4	758.3	456.8	181.5	102.5	91.3	83.0	76.1	70.3	67.3	66.8
27.5°	871.5	735.5	395.8	134.4	91.6	81.2	71.1	62.6	56.7	53.5	53.8
30°	860.3	711.5	334.9	106.7	82.8	70.8	59.9	51.6	46.0	43.7	43.4
32.5°	847.0	682.5	279.0	91.6	74.8	61.5	50.0	42.9	38.6	36.7	36.5
35°	834.5	653.2	222.0	82.2	66.5	53.0	42.1	35.9	32.7	31.1	31.4
37.5°	827.6	627.1	173.0	74.8	59.9	45.5	36.2	30.9	27.9	26.6	26.4
40°	832.1	605.8	137.6	68.1	52.4	39.1	31.1	26.6	23.7	21.8	21.8
42.5°	853.4	596.5	111.0	61.8	45.5	33.8	27.2	22.9	19.7	17.8	18.1
45°	918.3	606.4	92.9	55.9	39.1	29.3	23.4	18.9	16.0	14.6	14.4
47.5°	1026.1	643.4	80.4	49.8	33.5	25.0	19.7	15.7	12.8	11.7	11.4
50°	1214.6	719.7	71.1	43.7	28.5	21.3	16.2	12.5	10.1	9.1	9.1
52.5°	1473.8	886.4	64.4	36.7	24.0	18.1	13.3	10.1	8.0	7.2	6.9
55°	1744.8	1062.1	61.0	30.9	20.0	14.9	10.6	8.0	6.1	5.3	5.1
57.5°	2005.4	1199.9	57.0	25.0	16.0	11.4	8.3	6.1	4.3	3.7	3.5
60°	2255.3	1311.5	48.4	20.0	12.5	8.3	6.1	4.3	2.9	2.4	2.4
62.5°	2478.9	1376.4	38.1	16.0	9.6	5.9	4.0	3.2	2.1	1.6	1.6
65°	2505.0	1292.0	28.7	12.2	6.9	3.7	2.4	2.4	1.6	1.1	1.1
66°	2452.6	1220.4	25.3	11.2	6.1	3.2	2.1	1.9	1.3	0.8	0.8
67.5°	2335.5	1098.3	21.8	9.6	5.1	2.4	1.6	1.6	1.1	0.5	0.5
70°	2017.9	897.0	17.3	7.2	3.7	1.9	1.1	1.1	0.8	0.5	0.5
72.5°	1538.0	669.7	14.1	5.3	2.7	1.3	0.8	0.8	0.8	0.5	0.5
75°	927.6	360.7	10.9	4.0	2.4	1.1	0.5	0.8	1.1	0.8	0.5
77.5°	341.8	122.7	8.5	3.2	1.9	1.1	0.5	0.5	1.1	0.8	0.8
80°	83.8	31.9	6.1	2.7	1.9	1.1	0.5	0.5	1.1	1.1	1.1
82.5°	38.9	13.6	4.3	2.4	1.9	1.1	0.5	0.5	0.8	1.1	1.1
85°	22.4	6.4	3.5	2.7	1.9	1.1	0.5	0.5	0.8	1.1	1.1
87.5°	9.1	3.2	3.2	2.7	2.1	1.3	0.5	0.5	0.5	0.8	0.8
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)