

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: P450673

Luminaire Tested: **GALN-SA1C-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450673
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-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 4763 lumens
Efficiency: N/A
Efficacy: 83.6 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

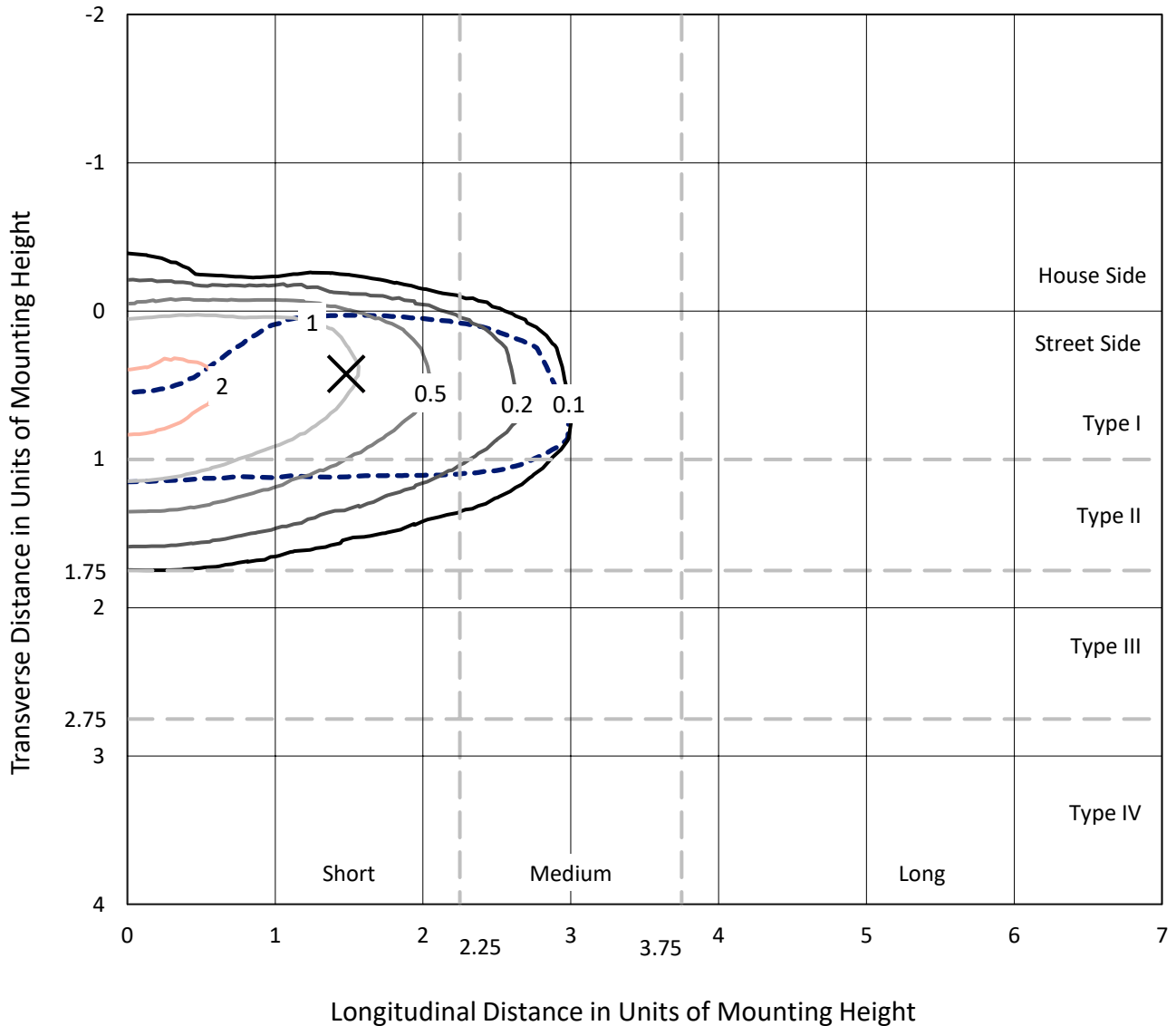
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

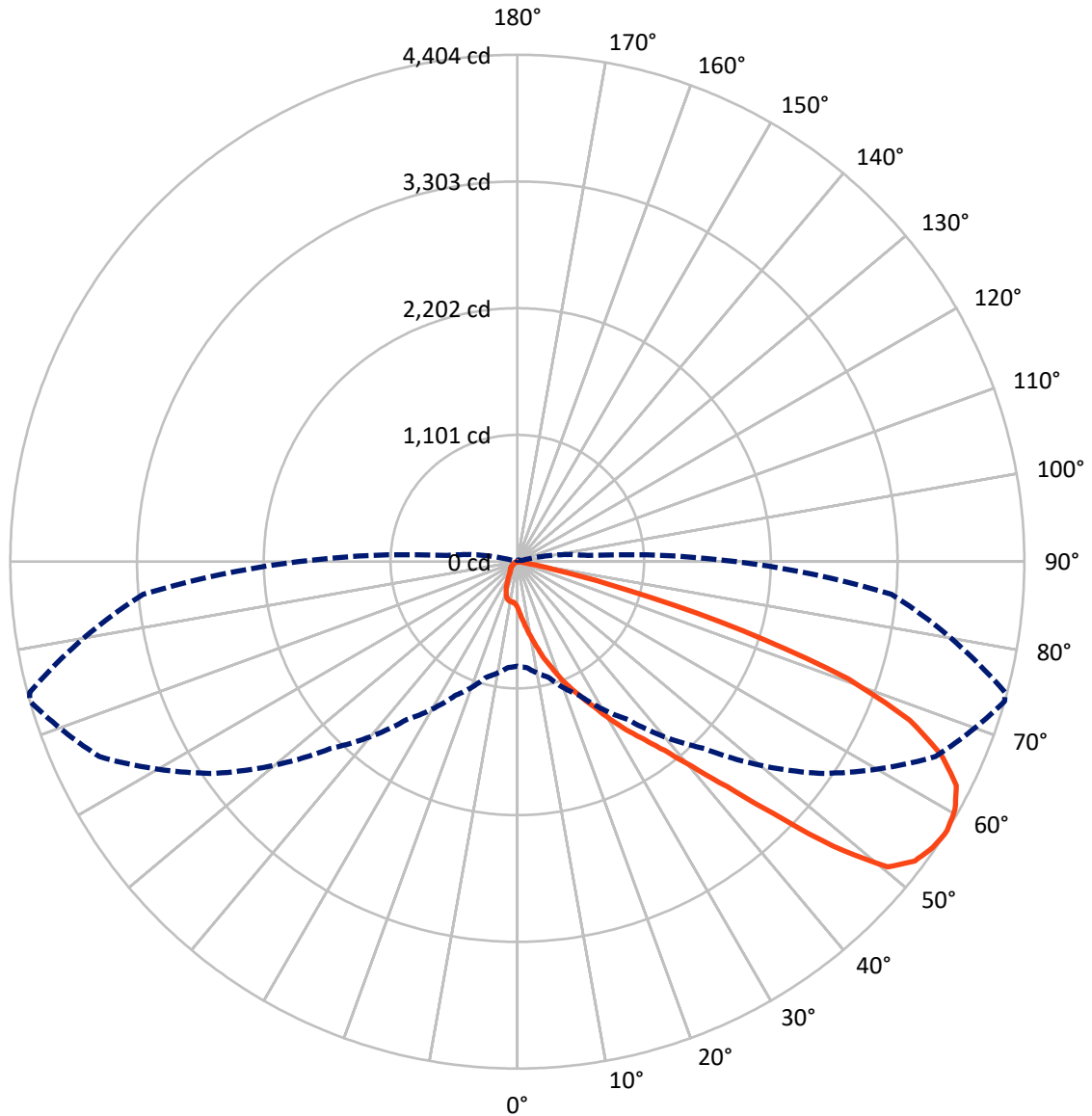
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	274.7	0.0	274.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	4488.3	0.0	4488.3
	% Fixture	94.2	0.0	94.2
Total	Lumens	4763.0	0.0	4763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	1.0
10°-20°	189.8	4.0
20°-30°	406.1	8.5
30°-40°	746.4	15.7
40°-50°	1144.2	24.0
50°-60°	1210.4	25.4
60°-70°	790.4	16.6
70°-80°	216.0	4.5
80°-90°	11.6	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°	4763.0	100.0
0°-180°	4763.0	100.0

Coefficient of Utilization



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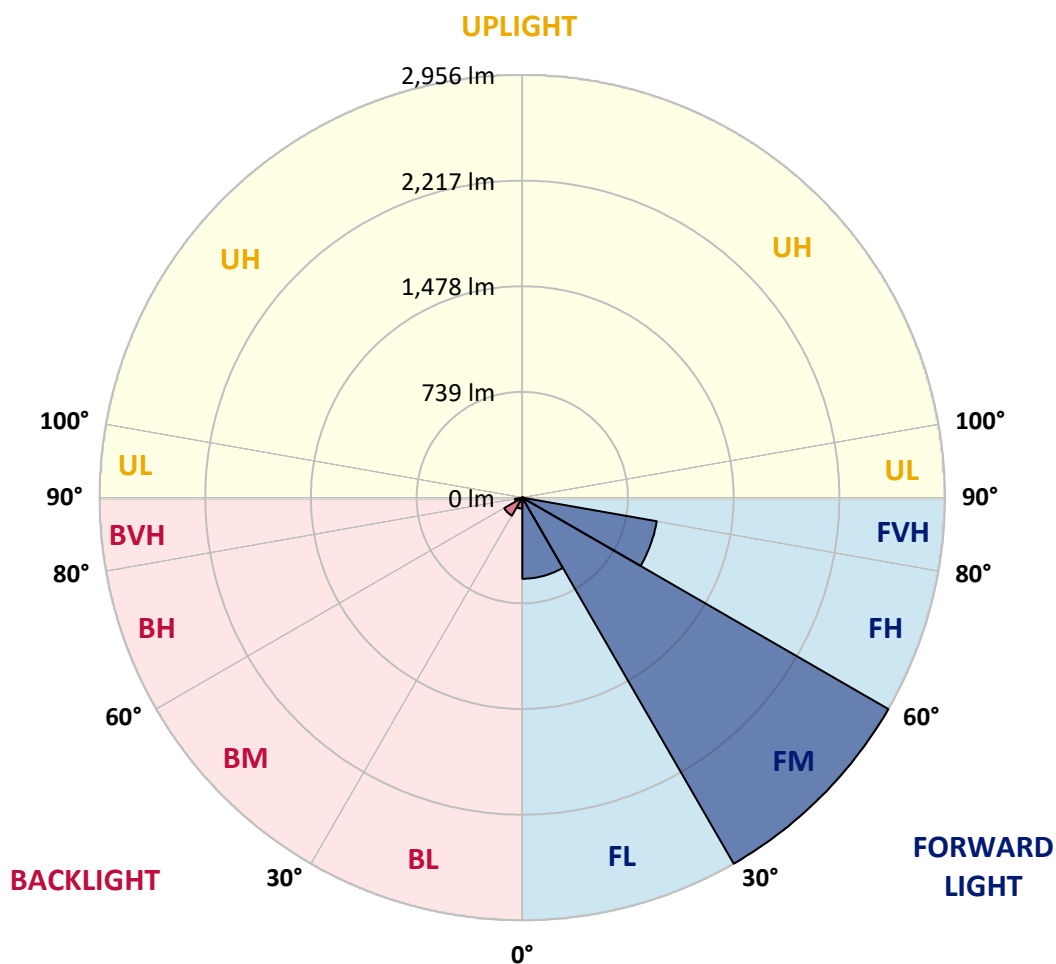
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.3	11.9			
FM (30°-60°)	2955.5	62.1			
FH (60°-80°)	954.8	20.0			G1/1800
FVH (80°-90°)	10.7	0.2			G1/100
BL (0°-30°)	76.7	1.6	B0/110		
BM (30°-60°)	145.4	3.1	B0/220		
BH (60°-80°)	51.6	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	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°	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9
2.5°	583.7	578.4	567.9	564.3	548.9	524.8	503.8	475.5	453.2	450.9	423.9
5°	781.7	769.8	764.9	741.2	704.1	669.2	609.4	564.0	511.7	507.7	453.5
7.5°	972.4	956.0	951.0	928.7	885.3	830.3	752.7	670.2	587.3	579.8	493.3
10°	1110.5	1112.8	1103.9	1089.2	1054.0	998.1	902.4	789.6	671.5	662.0	538.0
12.5°	1209.5	1209.2	1210.8	1210.5	1191.8	1149.3	1048.7	918.8	764.2	745.5	589.3
15°	1274.0	1275.0	1279.9	1297.0	1299.0	1272.6	1188.8	1042.5	871.8	848.4	644.9
17.5°	1339.1	1346.0	1353.9	1370.0	1384.5	1373.9	1314.7	1171.4	969.1	951.7	704.4
20°	1446.6	1456.1	1451.5	1461.4	1469.0	1470.0	1424.2	1290.4	1087.2	1057.9	772.5
22.5°	1618.6	1618.3	1606.4	1588.7	1573.9	1573.2	1531.8	1412.7	1194.4	1166.1	840.9
25°	1836.0	1837.0	1813.9	1763.3	1726.5	1681.4	1633.7	1519.9	1309.2	1274.3	912.9
27.5°	2085.2	2079.0	2044.1	1974.4	1901.4	1824.5	1755.7	1644.6	1430.8	1401.9	995.4
30°	2309.2	2306.9	2266.1	2180.9	2084.9	2007.6	1908.0	1800.8	1588.3	1552.8	1087.8
32.5°	2517.7	2521.0	2464.4	2376.3	2283.5	2194.4	2089.2	1950.1	1742.9	1692.6	1188.5
35°	2680.5	2683.7	2625.2	2551.9	2456.5	2382.5	2282.2	2109.2	1895.5	1853.1	1304.2
37.5°	2767.3	2771.5	2737.7	2682.4	2622.9	2585.7	2492.4	2314.1	2081.0	2055.3	1441.0
40°	2783.7	2788.6	2773.8	2759.1	2755.8	2782.4	2755.1	2555.5	2338.1	2298.0	1644.9
42.5°	2734.4	2741.0	2747.5	2780.4	2847.5	2945.2	3040.2	2883.0	2669.3	2615.3	1894.2
45°	2604.8	2604.2	2630.1	2715.3	2865.6	3074.1	3338.2	3293.1	3120.5	3056.3	2246.4
47.5°	2383.2	2379.9	2436.1	2557.5	2791.6	3097.8	3581.2	3791.0	3696.3	3637.1	2624.9
50°	2045.4	2061.6	2150.0	2319.4	2607.8	3026.1	3656.2	4117.5	4168.8	4106.0	2930.7
52.5°	1649.8	1649.2	1788.0	2017.8	2335.5	2868.2	3603.9	4176.7	4322.4	4274.4	3081.3
55°	1221.0	1229.6	1373.9	1605.8	1982.0	2580.2	3433.2	4115.9	4380.9	4347.1	3180.6
57°	908.3	923.4	1039.2	1284.5	1674.2	2295.0	3206.0	4007.0	4404.0	4385.5	3263.2
57.5°	847.8	848.4	961.2	1184.2	1584.1	2185.5	3140.8	3961.7	4403.3	4393.1	3276.7
60°	521.9	538.3	616.3	800.4	1159.5	1705.7	2704.5	3700.9	4369.1	4383.9	3334.2
62.5°	312.4	319.3	370.0	482.4	747.5	1245.0	2213.2	3367.1	4280.0	4325.0	3330.3
65°	200.9	202.6	225.6	292.0	467.3	841.5	1705.4	2926.1	4049.5	4132.3	3200.0
67.5°	155.2	157.8	167.1	191.7	271.0	524.2	1206.2	2455.5	3676.5	3783.4	2884.3
70°	137.8	139.1	142.4	150.3	179.2	296.0	750.4	1918.2	3048.8	3079.0	2257.2
72.5°	112.5	116.1	126.3	128.9	142.1	184.8	417.6	1287.4	2048.4	2056.0	1262.8
75°	87.1	87.8	102.9	110.5	119.7	127.3	186.5	649.1	983.9	931.3	486.7
77.5°	65.1	68.1	75.0	84.5	97.7	91.1	83.5	244.7	305.5	299.9	141.4
80°	41.8	43.4	52.3	63.5	76.0	59.5	47.0	71.7	67.1	69.1	33.9
82.5°	21.0	21.4	33.5	51.6	48.3	29.9	29.6	29.3	25.0	24.7	15.8
85°	2.3	4.9	21.7	29.6	21.7	9.9	13.8	13.5	13.2	13.5	9.2
87.5°	0.3	0.3	3.6	4.3	3.0	3.3	3.9	4.3	5.3	4.9	3.9
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°	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9
2.5°	410.7	397.6	373.2	349.9	332.5	321.3	306.8	301.6	294.0	293.0	289.4
5°	428.5	403.5	361.1	327.5	300.6	280.2	262.4	247.6	235.8	233.2	234.5
7.5°	453.8	416.7	357.5	311.7	274.3	239.4	211.1	193.7	181.2	176.6	177.3
10°	482.4	434.1	356.8	295.0	237.8	195.0	164.1	148.6	141.4	138.8	135.8
12.5°	516.3	454.1	355.2	269.0	197.6	155.5	133.5	124.3	117.4	115.4	115.4
15°	554.4	475.5	347.3	236.8	160.5	128.6	113.8	106.5	104.2	102.3	102.3
17.5°	594.2	496.6	330.8	197.0	133.2	110.2	101.0	96.7	93.4	91.1	91.1
20°	639.6	517.3	304.5	161.8	112.5	98.3	91.1	86.2	83.5	81.6	80.9
22.5°	682.7	534.1	271.0	132.9	98.0	88.5	81.9	76.6	74.0	73.0	73.0
25°	727.4	544.2	230.5	109.8	89.4	80.2	73.0	68.7	66.4	65.8	65.4
27.5°	770.8	550.2	195.0	96.0	81.6	72.7	65.8	62.5	60.2	59.5	59.9
30°	823.4	551.2	160.5	86.2	74.6	65.4	59.2	56.2	54.9	54.3	53.9
32.5°	876.7	549.8	134.8	80.2	68.1	59.2	53.9	51.6	50.6	49.7	49.7
35°	936.6	542.9	114.8	74.3	61.8	53.9	49.3	47.4	46.0	45.1	44.7
37.5°	1010.9	539.3	103.3	67.7	56.2	49.0	44.7	42.8	41.8	40.4	40.1
40°	1128.0	555.4	99.6	61.8	50.6	44.4	40.4	38.1	36.8	35.5	35.2
42.5°	1274.0	583.7	93.7	55.9	45.7	40.1	36.2	33.5	31.2	29.6	28.9
45°	1463.1	620.9	84.5	49.7	41.4	35.5	31.9	28.6	25.7	24.3	24.0
47.5°	1661.4	656.7	76.3	44.7	36.8	31.6	27.6	24.0	21.4	20.4	20.1
50°	1783.0	663.9	71.0	39.1	32.2	27.3	23.3	20.1	18.4	17.4	17.4
52.5°	1838.6	652.4	63.8	34.2	28.0	24.0	20.1	17.4	16.4	15.8	15.5
55°	1877.4	634.7	54.3	29.6	24.0	20.4	17.8	15.8	14.5	13.8	13.5
57°	1900.1	610.7	47.0	26.0	20.7	17.8	15.8	14.1	12.8	11.5	11.5
57.5°	1901.1	601.5	45.1	25.7	19.7	17.1	15.5	13.8	12.2	10.9	10.5
60°	1871.8	538.3	36.2	21.7	15.8	14.5	12.8	10.9	8.6	7.2	6.9
62.5°	1777.8	458.1	29.9	18.4	12.8	11.2	9.2	8.2	5.9	4.3	4.3
65°	1635.4	371.6	25.7	14.8	10.5	8.2	6.2	5.9	3.6	2.0	1.6
67.5°	1429.5	289.4	21.7	12.2	8.9	5.9	4.3	3.9	2.0	0.7	0.0
70°	1089.2	197.3	18.1	9.9	6.6	4.3	3.0	2.3	1.3	0.3	0.0
72.5°	627.8	108.5	15.1	7.6	4.9	3.3	2.3	1.3	1.3	0.0	0.0
75°	224.3	46.7	11.5	5.6	3.9	2.6	1.6	0.7	1.0	0.3	0.0
77.5°	71.4	25.0	7.6	4.3	3.3	2.0	1.3	0.7	0.7	0.3	0.0
80°	21.0	13.2	4.6	3.6	2.3	1.6	1.0	0.3	0.7	0.3	0.0
82.5°	11.5	6.6	3.6	2.6	2.3	1.3	1.0	0.3	0.3	0.3	0.0
85°	5.9	3.9	3.0	2.6	2.3	1.3	1.0	0.3	0.0	0.3	0.3
87.5°	3.3	3.0	3.0	2.6	2.3	1.6	1.0	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)