

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: P451748

Luminaire Tested: **GALN-SA2C-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7630 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

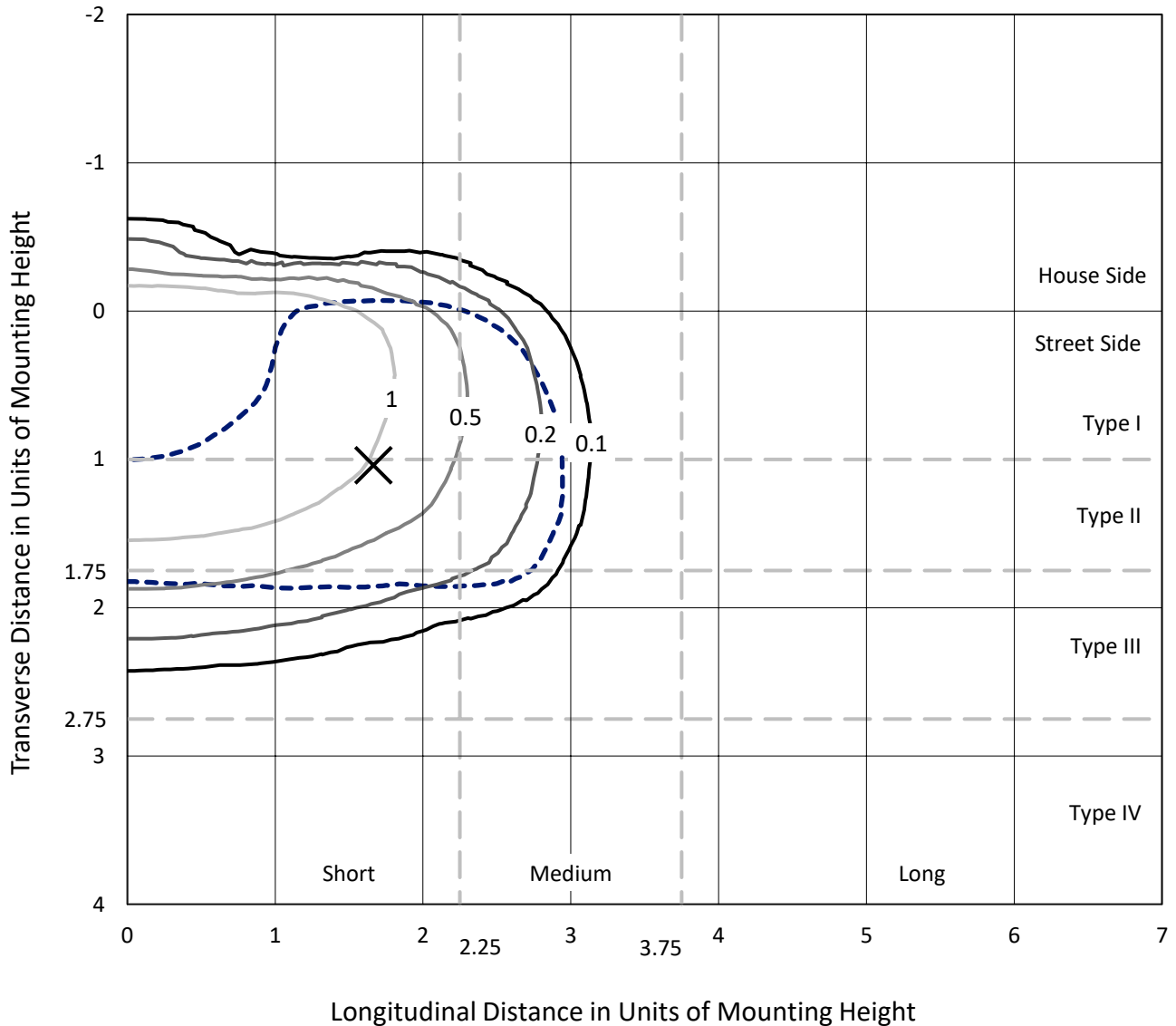
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

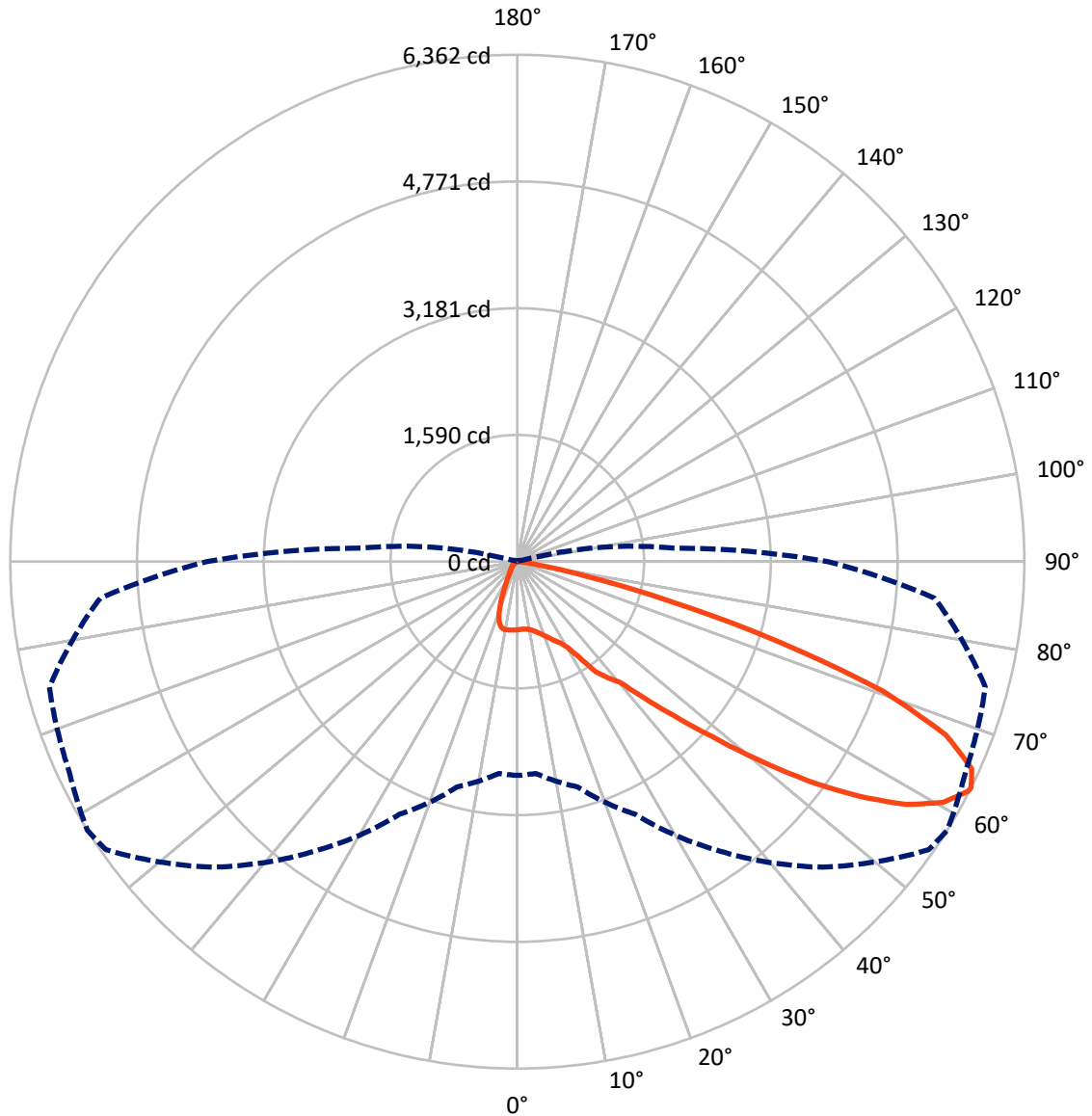
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	790.0	0.0	790.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	6840.0	0.0	6840.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	7630.0	0.0	7630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.0
10°-20°	217.8	2.9
20°-30°	378.0	5.0
30°-40°	694.6	9.1
40°-50°	1307.6	17.1
50°-60°	2236.5	29.3
60°-70°	2141.5	28.1
70°-80°	546.1	7.2
80°-90°	27.9	0.4
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°	7630.0	100.0
0°-180°	7630.0	100.0

Coefficient of Utilization



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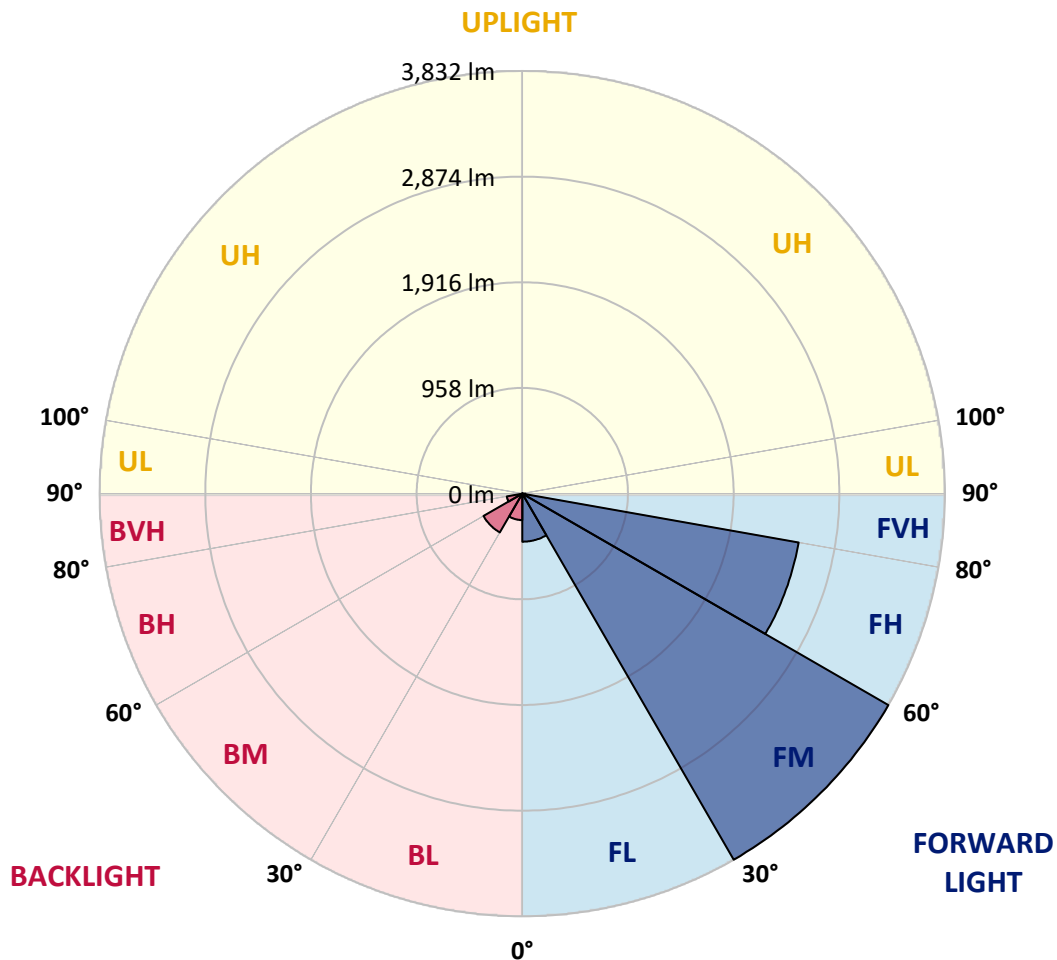
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.2	5.7			
FM (30°-60°)	3832.4	50.2			
FH (60°-80°)	2544.6	33.3			G2/5000
FVH (80°-90°)	26.8	0.4			G1/100
BL (0°-30°)	239.6	3.1	B1/500		
BM (30°-60°)	406.4	5.3	B1/1000		
BH (60°-80°)	143.0	1.9	B1/500		G1/500
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: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	854.2	854.2	854.2	854.2	854.2	854.2	854.2	854.2	854.2	854.2	854.2
2.5°	833.0	835.8	838.7	839.8	843.9	847.9	850.8	850.2	854.8	857.1	857.1
5°	799.6	799.6	807.1	814.0	825.5	837.0	847.9	850.2	858.8	866.8	869.7
7.5°	771.5	773.2	779.0	791.6	807.1	827.2	849.0	854.2	869.1	887.0	894.4
10°	758.3	759.4	766.9	780.1	799.6	827.2	857.7	867.4	890.4	918.5	928.9
12.5°	755.4	757.1	764.6	779.5	801.9	835.3	876.6	887.0	920.3	956.5	972.0
15°	760.6	761.7	769.2	785.3	810.0	849.6	901.9	916.2	955.9	997.8	1017.9
17.5°	779.0	777.8	783.0	796.2	823.8	867.4	932.3	949.6	996.1	1053.5	1066.8
20°	857.1	849.6	845.0	833.5	844.4	892.7	969.1	994.4	1051.8	1110.4	1119.6
22.5°	1025.4	1008.7	976.0	931.2	896.7	927.2	1013.3	1042.6	1116.7	1174.2	1174.2
25°	1239.7	1218.4	1185.7	1088.0	1003.6	984.0	1063.3	1100.1	1187.4	1245.4	1226.5
27.5°	1507.9	1491.3	1427.5	1313.8	1184.5	1083.4	1121.3	1155.2	1250.0	1320.1	1280.5
30°	1726.2	1718.2	1665.9	1564.2	1421.8	1274.1	1229.3	1251.7	1333.3	1414.3	1373.5
32.5°	1910.6	1910.6	1857.2	1762.4	1629.1	1498.2	1412.6	1428.7	1506.8	1600.4	1524.6
35°	2113.4	2106.5	2063.4	1973.2	1823.9	1708.4	1673.4	1695.2	1765.9	1835.4	1648.7
37.5°	2326.5	2324.2	2279.4	2192.1	2070.3	1925.0	1842.8	1848.6	1884.8	1927.3	1794.0
40°	2558.0	2561.5	2502.9	2448.9	2334.0	2185.2	2027.8	1991.6	2025.5	2145.6	2062.3
42.5°	2831.5	2823.4	2798.1	2724.6	2632.1	2543.1	2354.1	2340.9	2370.8	2499.4	2409.2
45°	3149.1	3160.6	3117.0	3076.2	3014.1	2940.0	2782.1	2759.1	2791.8	2991.7	2863.6
47.5°	3467.4	3456.5	3484.6	3477.1	3510.5	3455.3	3315.7	3268.6	3347.3	3536.9	3348.5
50°	3709.8	3721.9	3780.5	3866.1	4009.1	4040.1	3906.3	3890.2	3925.2	4047.0	3782.2
52.5°	3867.2	3907.4	3999.3	4219.3	4477.3	4677.8	4576.1	4567.5	4553.1	4585.8	4196.9
55°	3970.0	4010.8	4130.9	4454.9	4898.9	5224.6	5229.8	5193.0	5098.2	5074.7	4584.7
57.5°	3906.8	3914.9	4086.1	4519.2	5132.7	5614.7	5783.6	5746.8	5571.6	5482.6	4927.1
60°	3511.6	3528.3	3766.7	4275.6	5031.0	5742.2	6150.6	6134.0	5942.1	5841.6	5193.6
62.5°	2811.4	2859.6	3104.9	3672.5	4558.3	5527.4	6299.4	6346.5	6197.2	6058.7	5277.5
63°	2682.7	2667.2	2926.3	3496.7	4433.0	5421.1	6301.7	6361.5	6208.7	6079.4	5254.5
65°	1985.9	2032.4	2200.7	2757.4	3689.1	4926.5	6159.8	6265.5	6166.2	5988.1	5000.0
67.5°	1115.0	1112.7	1298.8	1804.3	2582.2	3864.3	5569.9	5793.3	5772.7	5373.4	4144.7
70°	545.7	554.3	630.7	935.2	1497.6	2666.0	4628.3	4869.6	4877.1	4220.5	2865.9
72.5°	247.0	251.0	305.6	455.5	769.8	1419.5	3189.3	3419.7	3377.2	2689.6	1582.6
75°	130.4	139.0	168.3	229.2	371.1	585.4	1734.8	1957.7	1868.7	1228.7	582.5
77.5°	96.5	99.4	114.3	145.9	198.8	228.1	748.5	890.4	834.1	444.6	193.0
80°	70.7	73.0	85.0	103.4	125.2	116.0	282.1	323.4	290.1	151.1	59.2
82.5°	43.1	43.7	62.0	77.0	78.7	64.9	93.1	100.0	104.6	85.0	32.2
85°	15.5	19.5	41.9	55.7	46.5	32.7	39.1	43.1	47.1	54.0	19.0
87.5°	1.7	2.3	20.1	27.0	13.2	12.1	14.4	16.1	17.2	20.1	9.2
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°	854.2	854.2	854.2	854.2	854.2	854.2	854.2	854.2	854.2	854.2	854.2
2.5°	859.4	861.7	860.0	857.1	856.5	854.8	851.3	851.3	851.3	852.5	851.3
5°	872.0	873.7	869.7	864.0	857.7	849.6	841.0	835.8	835.3	834.1	831.2
7.5°	896.1	898.4	889.2	875.5	858.2	838.7	820.3	803.1	795.0	788.7	788.7
10°	931.2	933.5	915.1	890.4	855.9	816.3	772.6	733.0	702.0	687.6	684.2
12.5°	973.1	974.3	943.8	900.7	843.9	767.5	674.4	587.7	527.3	499.8	496.9
15°	1019.1	1011.0	970.8	904.8	809.4	666.9	506.1	399.8	337.2	318.8	325.7
17.5°	1065.6	1050.7	991.5	898.4	731.9	506.1	340.1	272.9	253.3	248.2	248.2
20°	1109.3	1088.6	1006.4	870.9	597.4	348.7	252.2	236.1	232.7	229.2	229.8
22.5°	1152.9	1121.3	1019.6	809.4	445.2	249.3	225.8	220.6	216.0	211.4	210.8
25°	1195.4	1151.8	1024.8	695.7	303.3	214.3	206.2	199.3	190.1	185.0	183.8
27.5°	1239.7	1188.5	1021.4	552.0	221.2	191.9	183.8	174.1	163.1	154.0	154.0
30°	1324.7	1258.6	1009.3	396.9	186.1	168.9	158.5	143.0	131.0	121.8	121.2
32.5°	1440.7	1350.0	967.9	279.2	165.4	148.8	133.3	116.0	103.4	96.5	96.5
35°	1544.1	1441.9	890.4	205.7	148.8	129.3	110.3	93.6	83.9	79.3	77.6
37.5°	1701.5	1576.3	783.6	167.2	132.7	112.0	92.5	77.0	68.9	65.5	65.5
40°	1937.6	1740.6	652.6	146.5	117.2	95.4	77.0	64.9	58.6	54.6	54.6
42.5°	2230.6	1941.6	519.9	131.5	102.8	82.1	64.3	55.1	49.4	46.5	46.0
45°	2599.4	2153.6	400.4	117.8	91.3	70.1	54.6	46.5	40.8	39.1	39.6
47.5°	2984.3	2340.3	310.2	105.7	79.3	59.2	46.5	40.2	36.2	33.9	33.9
50°	3312.9	2469.0	235.5	91.9	70.1	50.0	40.8	36.2	32.7	31.6	31.0
52.5°	3587.4	2506.3	180.4	79.8	61.5	43.1	36.2	32.7	29.9	28.1	28.1
55°	3821.2	2473.6	141.3	67.2	51.7	37.3	32.2	29.3	25.9	24.1	23.6
57.5°	3958.0	2368.5	108.0	55.7	41.9	31.0	28.1	24.7	20.7	17.8	17.8
60°	4026.9	2215.7	82.7	46.0	32.2	24.7	23.0	18.4	14.4	12.1	11.5
62.5°	3944.2	2012.9	62.6	36.2	24.1	18.4	15.5	13.2	9.2	6.9	6.9
63°	3893.1	1954.3	60.3	34.5	22.4	17.2	14.4	12.1	8.0	6.3	5.7
65°	3549.0	1698.7	49.4	27.6	17.8	12.1	9.8	8.6	5.7	2.9	2.3
67.5°	2818.3	1299.4	39.1	20.7	12.6	8.6	5.7	5.2	1.7	0.0	0.0
70°	1905.5	839.3	30.4	14.9	8.6	5.2	2.9	2.3	0.6	0.0	0.0
72.5°	993.8	430.3	23.6	10.9	5.2	3.4	1.7	0.6	0.0	0.0	0.0
75°	351.6	146.5	17.2	6.9	3.4	1.7	0.6	0.0	0.0	0.0	0.0
77.5°	106.3	54.6	10.9	5.2	2.3	1.1	0.0	0.0	0.0	0.0	0.0
80°	37.3	20.1	6.3	3.4	1.7	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	18.4	9.8	4.0	2.9	1.7	0.6	0.0	0.0	0.0	0.0	0.0
85°	10.3	6.3	3.4	2.9	1.7	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	4.6	3.4	2.9	2.3	1.1	0.6	0.0	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)