

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: P529956

Luminaire Tested: **GALN-SA5A-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529956  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14121 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

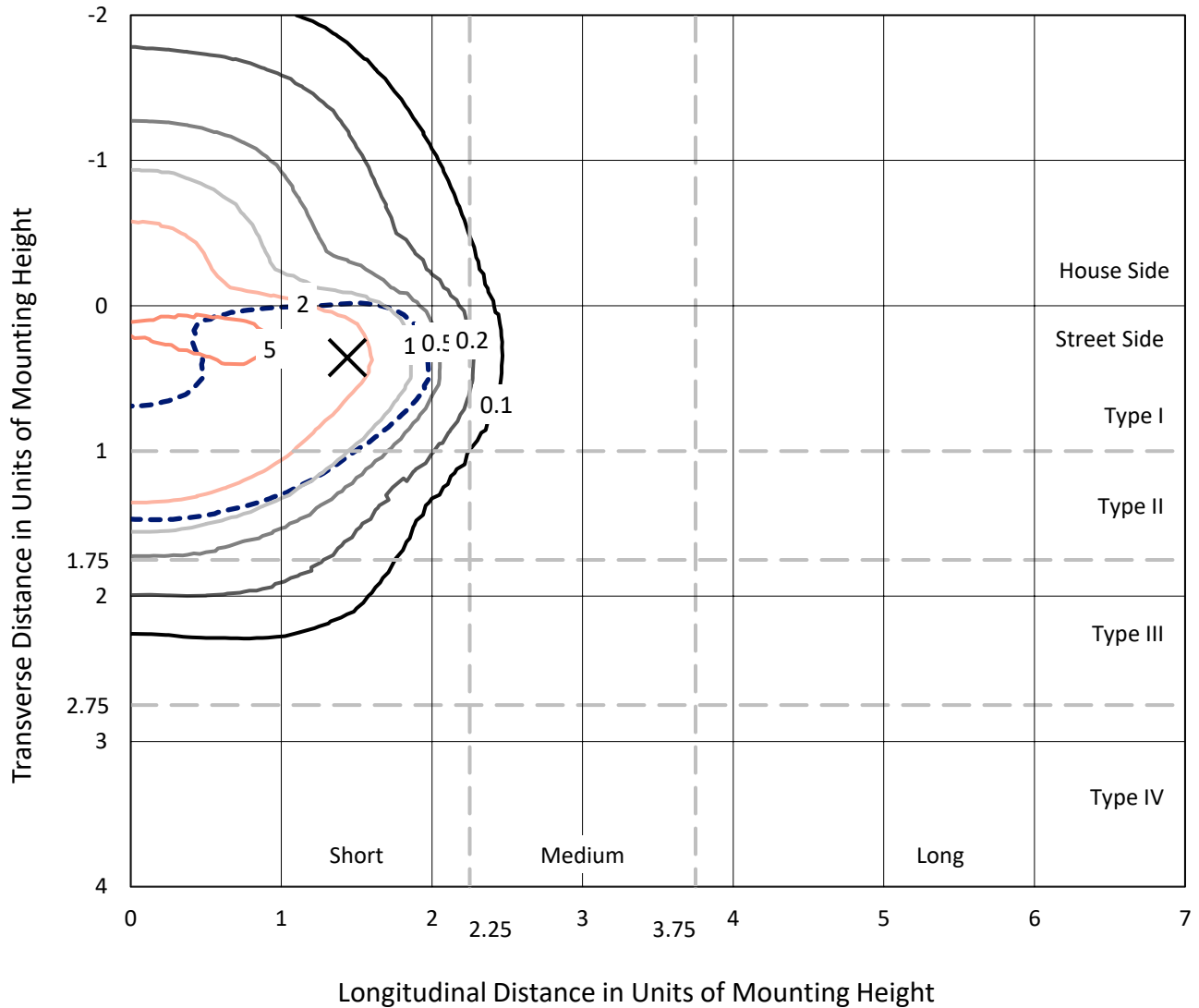
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

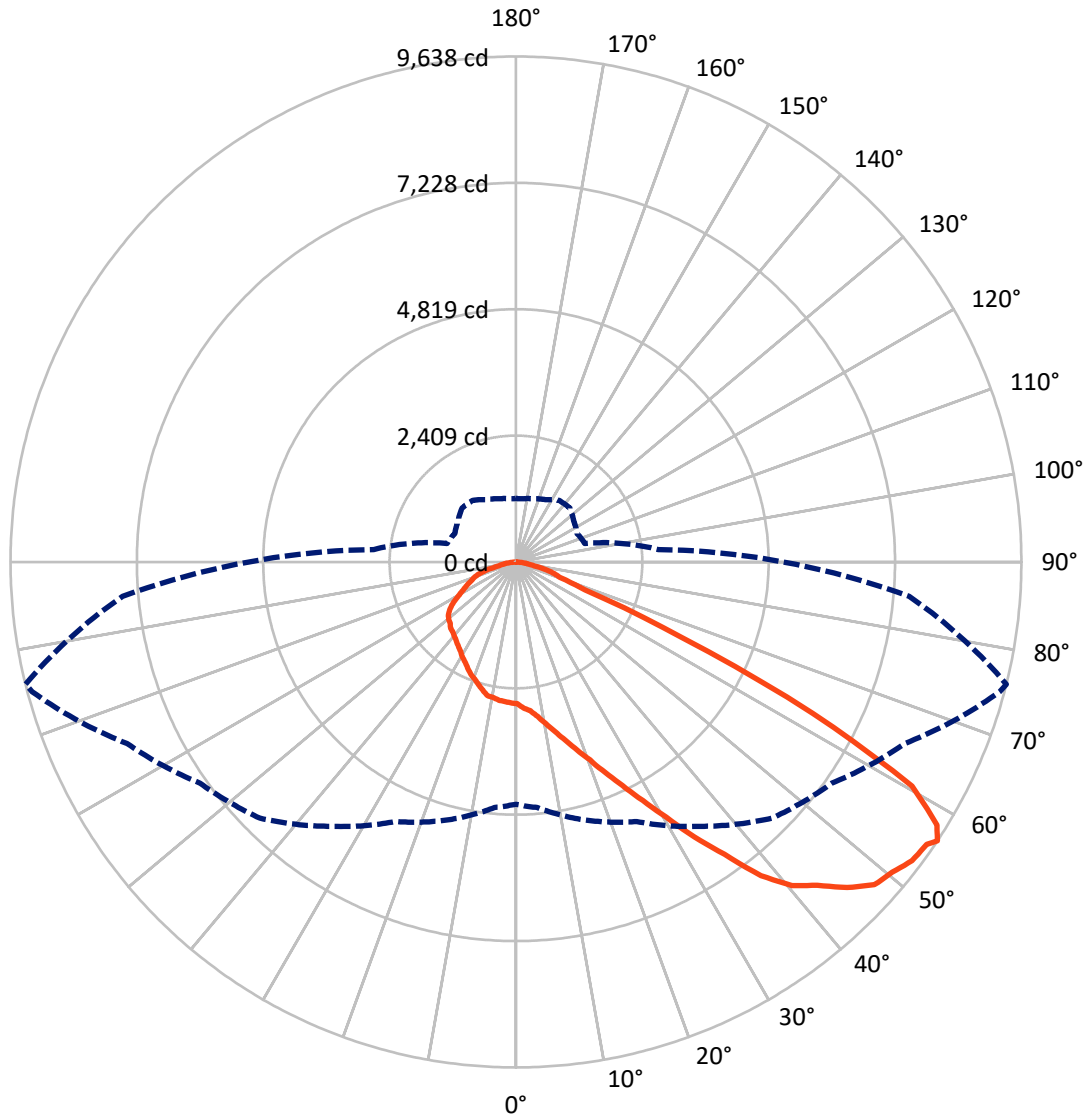
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3796.7	0.0	3796.7
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	10324.3	0.0	10324.3
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	14121.0	0.0	14121.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.9	1.9
10°-20°	841.7	6.0
20°-30°	1472.0	10.4
30°-40°	2304.8	16.3
40°-50°	3352.8	23.7
50°-60°	3684.9	26.1
60°-70°	1644.8	11.6
70°-80°	475.1	3.4
80°-90°	77.1	0.5
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°	14121.0	100.0
0°-180°	14121.0	100.0

**Coefficient of Utilization**

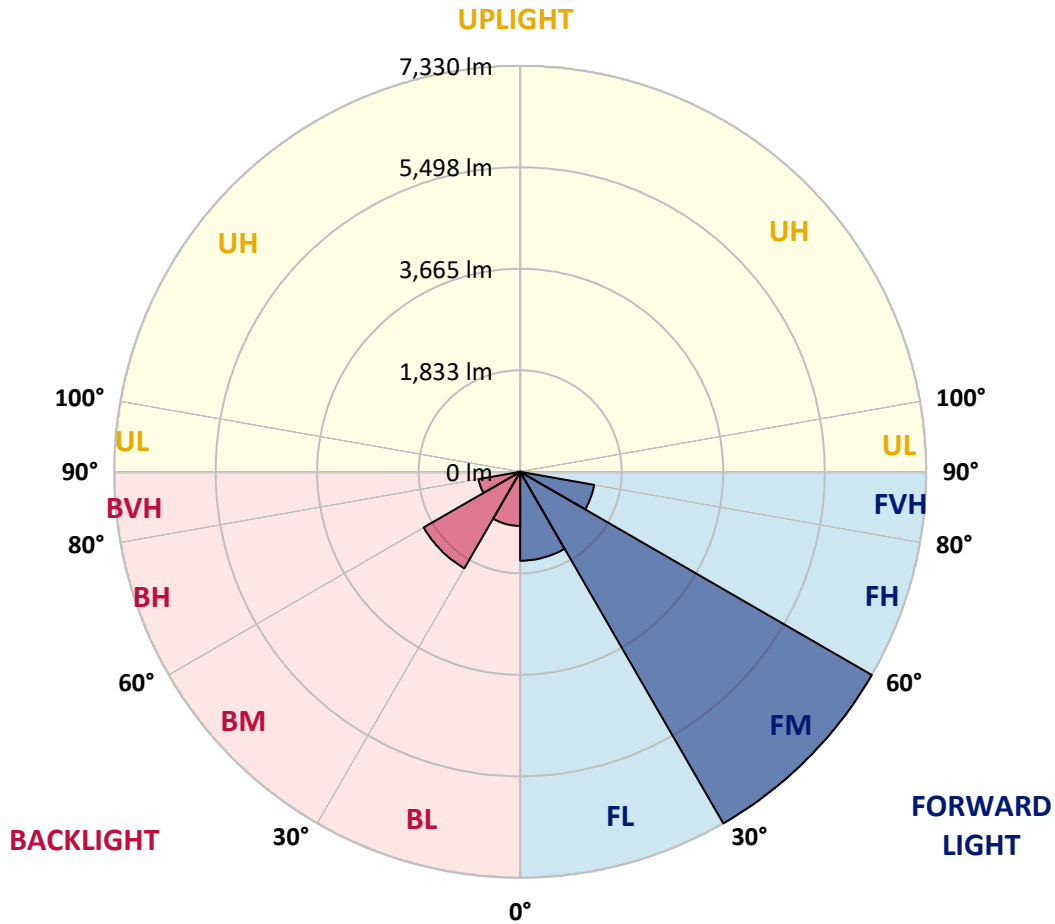


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1604.7	11.4			
FM (30°-60°)	7330.5	51.9			
FH (60°-80°)	1356.0	9.6			G1/1800
FVH (80°-90°)	33.2	0.2			G1/100
BL (0°-30°)	977.0	6.9	B2/1000		
BM (30°-60°)	2011.9	14.2	B2/2500		
BH (60°-80°)	763.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	43.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2701.9	2701.9	2701.9	2701.9	2701.9	2701.9	2701.9	2701.9	2701.9	2701.9	2701.9
2.5°	2976.5	2928.9	2925.2	2912.4	2919.7	2886.8	2852.0	2806.2	2758.6	2787.9	2718.3
5°	3185.1	3121.1	3146.7	3102.8	3108.3	3064.3	2992.9	2939.8	2881.3	2846.5	2797.1
7.5°	3258.4	3263.8	3282.2	3274.8	3238.2	3238.2	3190.6	3097.3	2994.8	2974.6	2892.2
10°	3357.2	3359.0	3338.9	3344.4	3395.6	3371.8	3329.7	3289.5	3157.7	3133.9	2987.4
12.5°	3392.0	3359.0	3392.0	3421.3	3481.7	3514.6	3505.5	3476.2	3335.2	3318.8	3104.6
15°	3397.5	3377.3	3404.8	3470.7	3523.8	3662.9	3732.5	3712.3	3525.6	3527.4	3236.4
17.5°	3371.8	3399.3	3410.3	3467.0	3589.7	3719.7	3921.0	3948.5	3794.7	3770.9	3403.0
20°	3406.6	3386.5	3401.1	3452.4	3615.3	3818.5	4082.1	4263.3	4047.3	4030.8	3575.0
22.5°	3540.3	3512.8	3509.1	3542.1	3659.2	3869.8	4252.3	4578.2	4354.8	4364.0	3789.2
25°	3644.6	3659.2	3646.4	3644.6	3717.8	3946.6	4477.5	4953.4	4772.2	4719.1	4041.8
27.5°	3824.0	3858.8	3833.1	3867.9	3851.4	4062.0	4638.6	5369.0	5222.5	5151.1	4270.6
30°	4072.9	4091.2	4067.5	4067.5	4018.0	4223.0	4785.0	5802.8	5742.4	5645.4	4539.7
32.5°	4400.6	4428.1	4380.5	4353.0	4345.7	4462.8	5048.6	6231.1	6333.7	6251.3	4896.7
35°	4834.4	4818.0	4761.2	4735.6	4636.7	4830.8	5440.4	6723.6	6992.6	6846.2	5328.7
37.5°	5217.0	5191.4	5187.7	5045.0	5068.8	5228.0	5773.5	7097.0	7631.5	7589.4	5784.5
40°	5574.0	5597.8	5636.2	5555.7	5519.1	5694.8	6161.6	7382.6	8127.6	8111.1	6136.0
42.5°	5956.6	5934.6	6002.3	5934.6	5879.7	6128.6	6582.6	7580.3	8563.3	8427.8	6503.9
45°	6511.2	6441.7	6465.5	6470.9	6430.7	6522.2	6756.5	7723.0	8868.9	8854.3	6773.0
47.5°	6974.3	6976.2	6935.9	6904.8	6782.1	6873.7	6950.5	7812.7	9220.4	9196.6	6877.3
50°	7146.4	7122.6	7239.8	7307.5	7314.8	7128.1	7102.5	7862.2	9405.3	9301.0	6981.7
52.5°	6527.7	6549.7	6734.5	7137.3	7369.7	7389.9	7280.0	7964.7	9480.3	9458.4	7065.9
55°	5253.6	5359.8	5663.7	6128.6	6679.6	7285.5	7472.3	8070.8	9520.6	9502.3	7439.3
56°	4618.4	4700.8	5096.2	5460.5	6152.4	6906.6	7351.4	8184.3	9551.7	9637.8	7527.2
57.5°	3717.8	3813.0	4096.7	4510.4	5326.9	6185.4	7018.3	8045.2	9430.9	9463.9	7591.2
60°	2324.8	2333.9	2674.4	2947.2	3522.0	4360.3	5356.2	7000.0	8728.0	8680.4	6818.7
62.5°	1524.8	1526.7	1836.0	2059.4	2321.1	2513.3	3152.2	4642.2	6439.8	6355.6	4854.6
65°	1070.9	1094.7	1334.5	1632.8	1739.0	1638.3	1618.2	2447.4	3597.0	3476.2	2608.5
67.5°	783.5	785.3	997.6	1318.0	1471.8	1246.6	1012.3	1195.3	1424.2	1420.5	1208.2
70°	518.0	540.0	702.9	984.8	1160.6	1001.3	827.4	854.9	906.1	906.1	898.8
72.5°	302.0	322.2	430.2	624.2	651.7	626.0	655.3	732.2	765.2	763.3	754.2
75°	172.1	181.2	205.0	259.9	324.0	382.6	481.4	554.7	587.6	607.7	583.9
77.5°	100.7	106.2	120.8	148.3	168.4	206.9	261.8	313.0	357.0	351.5	355.1
80°	53.1	53.1	67.7	87.9	117.2	146.4	173.9	203.2	227.0	232.5	238.0
82.5°	31.1	32.9	43.9	64.1	84.2	104.3	133.6	153.8	175.7	177.6	181.2
85°	16.5	18.3	27.5	42.1	56.7	64.1	65.9	62.2	67.7	64.1	73.2
87.5°	5.5	5.5	9.2	7.3	7.3	9.2	11.0	11.0	14.6	14.6	14.6
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°	2701.9	2701.9	2701.9	2701.9	2701.9	2701.9	2701.9	2701.9	2701.9	2701.9	2701.9
2.5°	2716.5	2716.5	2685.4	2626.8	2617.7	2593.9	2571.9	2570.1	2553.6	2539.0	2531.6
5°	2767.8	2711.0	2665.3	2612.2	2549.9	2520.6	2487.7	2451.1	2436.4	2451.1	2449.3
7.5°	2826.3	2778.8	2641.5	2542.6	2471.2	2441.9	2405.3	2366.9	2370.5	2370.5	2344.9
10°	2883.1	2819.0	2599.4	2473.1	2368.7	2346.7	2326.6	2341.3	2359.6	2363.2	2346.7
12.5°	2978.3	2833.7	2579.2	2403.5	2337.6	2290.0	2302.8	2343.1	2381.5	2370.5	2383.4
15°	3049.7	2846.5	2487.7	2332.1	2249.7	2271.7	2317.5	2344.9	2409.0	2401.7	2414.5
17.5°	3119.2	2853.8	2398.0	2236.9	2202.1	2262.5	2297.3	2376.0	2396.2	2440.1	2456.6
20°	3262.0	2868.5	2306.5	2178.3	2167.4	2236.9	2297.3	2333.9	2377.9	2416.3	2416.3
22.5°	3335.2	2861.1	2246.1	2101.5	2136.2	2180.2	2235.1	2297.3	2297.3	2333.9	2335.8
25°	3426.8	2831.8	2150.9	2064.8	2090.5	2132.6	2194.8	2172.8	2196.6	2196.6	2225.9
27.5°	3531.1	2769.6	2068.5	1998.9	2050.2	2096.0	2105.1	2090.5	2063.0	2059.4	2048.4
30°	3615.3	2692.7	2008.1	1977.0	2019.1	2044.7	2015.4	1984.3	1936.7	1933.0	1907.4
32.5°	3730.6	2597.5	1933.0	1922.1	1969.7	1971.5	1962.3	1914.7	1845.2	1815.9	1786.6
35°	3924.7	2542.6	1876.3	1892.8	1907.4	1901.9	1885.5	1834.2	1764.6	1751.8	1740.8
37.5°	4067.5	2502.3	1817.7	1837.9	1850.7	1858.0	1808.6	1751.8	1753.7	1728.0	1720.7
40°	4228.5	2476.7	1770.1	1779.3	1781.1	1804.9	1744.5	1717.0	1729.9	1713.4	1724.4
42.5°	4435.4	2484.0	1720.7	1713.4	1748.2	1739.0	1709.7	1673.1	1680.4	1631.0	1638.3
45°	4545.2	2533.5	1691.4	1658.5	1696.9	1695.1	1656.6	1621.9	1577.9	1482.7	1486.4
47.5°	4618.4	2546.3	1621.9	1599.9	1640.2	1664.0	1620.0	1539.5	1477.2	1409.5	1393.0
50°	4693.5	2570.1	1588.9	1543.1	1559.6	1616.4	1561.4	1484.6	1424.2	1363.7	1372.9
52.5°	4759.4	2615.8	1524.8	1457.1	1486.4	1548.6	1519.3	1426.0	1360.1	1310.7	1296.0
55°	5052.3	2718.3	1416.8	1329.0	1398.5	1477.2	1460.8	1347.3	1275.9	1250.3	1246.6
56°	5098.0	2722.0	1360.1	1285.0	1349.1	1453.4	1433.3	1312.5	1248.4	1208.2	1210.0
57.5°	5105.4	2678.1	1279.5	1244.8	1299.7	1418.7	1393.0	1285.0	1197.2	1160.6	1149.6
60°	4492.1	2090.5	1178.9	1156.9	1221.0	1312.5	1303.3	1210.0	1111.1	1069.0	1089.2
62.5°	3062.5	1532.2	1100.2	1096.5	1129.4	1219.1	1195.3	1111.1	1028.8	1001.3	988.5
65°	1782.9	1162.4	1023.3	1008.6	1036.1	1083.7	1100.2	1012.3	926.3	907.9	902.5
67.5°	1052.6	961.0	924.4	900.6	891.5	920.8	933.6	882.3	796.3	770.7	792.6
70°	880.5	854.9	856.7	816.4	794.5	774.3	763.3	717.6	646.2	613.2	604.1
72.5°	759.7	748.7	741.4	704.8	684.6	638.9	591.3	545.5	492.4	465.0	466.8
75°	580.3	576.6	580.3	562.0	527.2	490.6	446.7	388.1	347.8	313.0	320.3
77.5°	346.0	357.0	362.4	355.1	340.5	307.5	280.1	241.6	203.2	175.7	172.1
80°	238.0	247.1	256.3	247.1	232.5	208.7	179.4	150.1	122.6	108.0	104.3
82.5°	181.2	190.4	195.9	186.7	168.4	142.8	122.6	102.5	80.5	65.9	62.2
85°	65.9	75.1	73.2	87.9	95.2	91.5	78.7	60.4	45.8	32.9	31.1
87.5°	18.3	16.5	18.3	18.3	18.3	16.5	14.6	14.6	14.6	9.2	7.3
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)