

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: P530724

Luminaire Tested: **GALN-SA6A-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-727-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20464 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

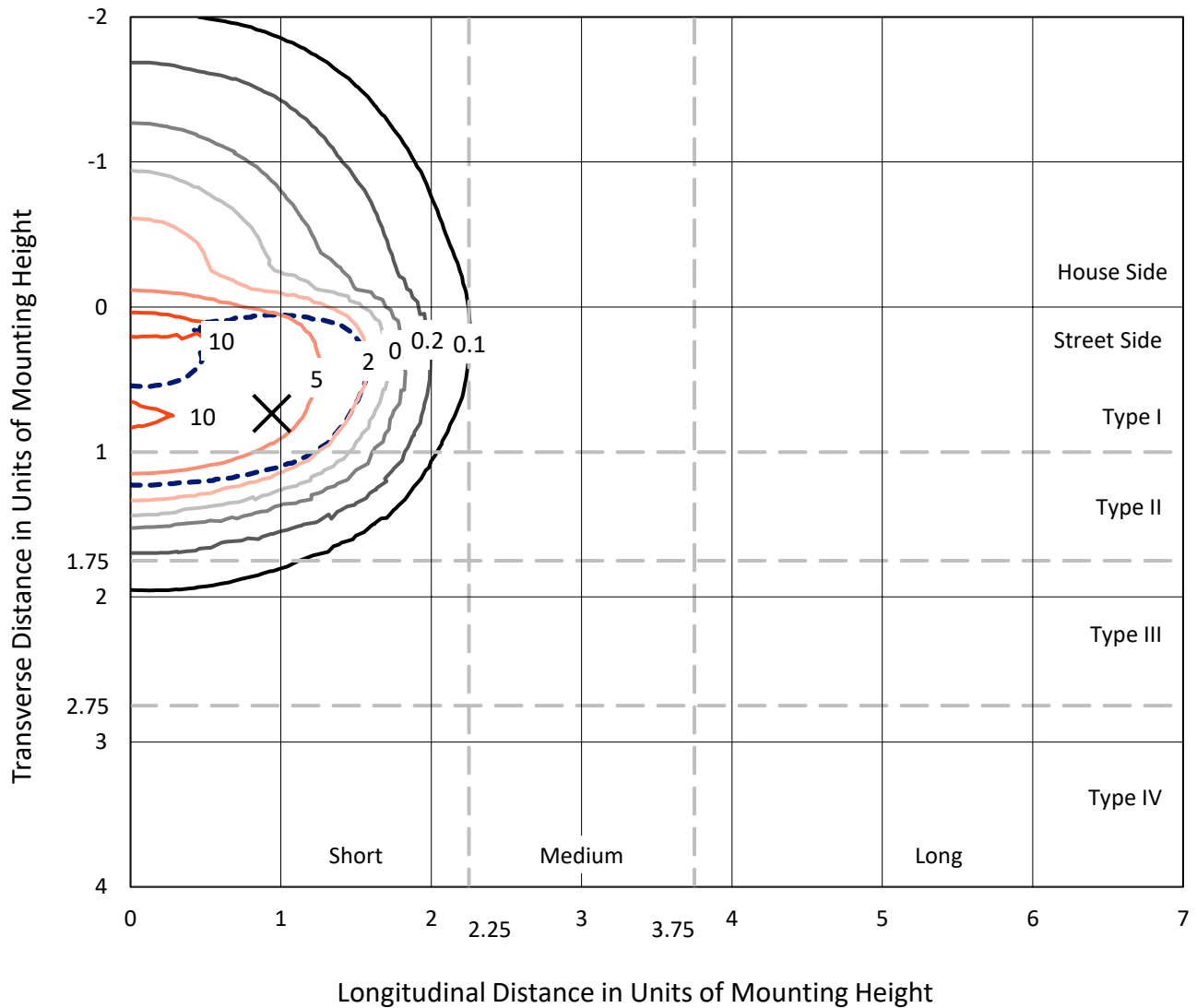
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

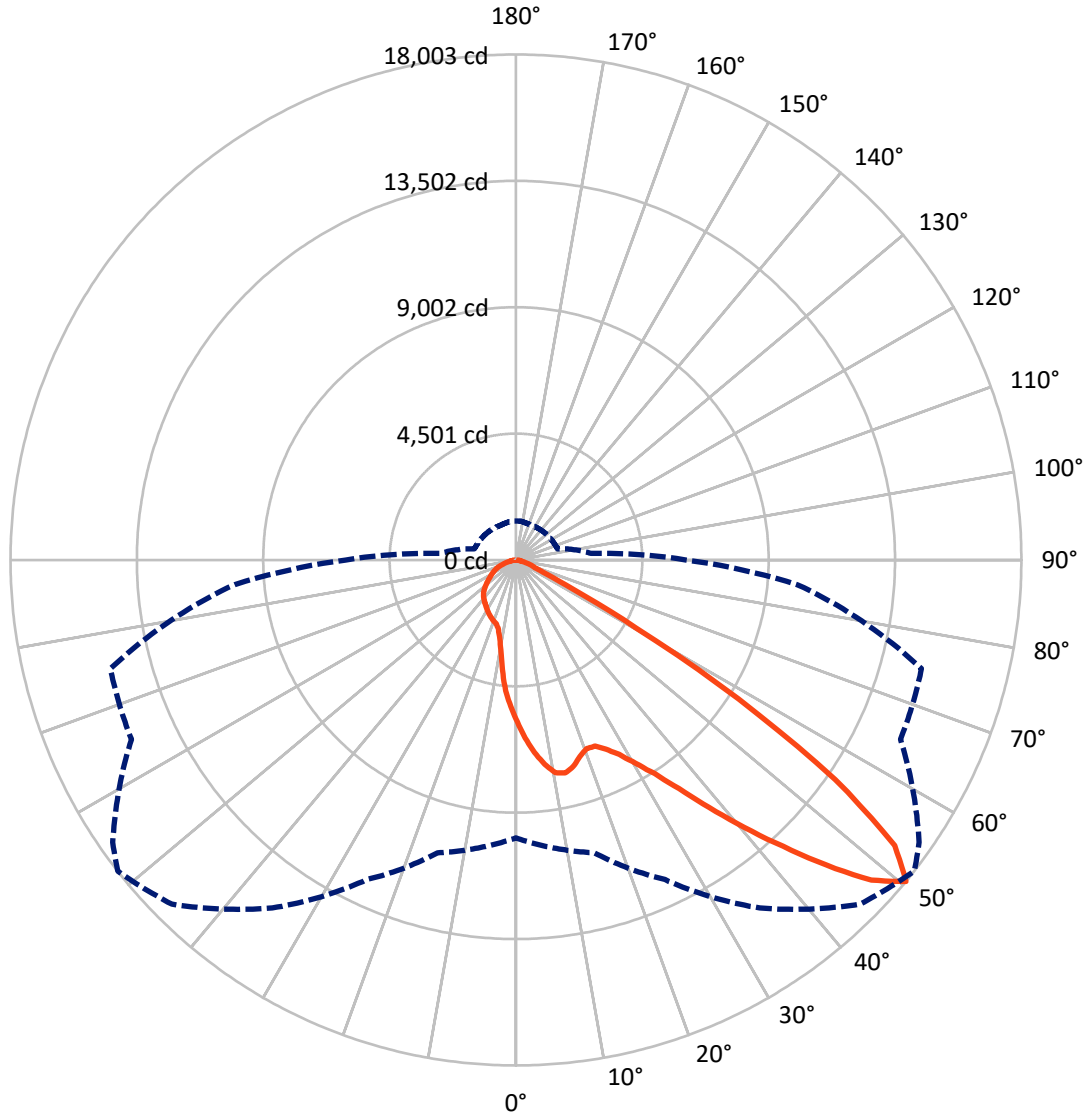
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3846.7	0.0	3846.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	16617.2	0.0	16617.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	20464.0	0.0	20464.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.7	2.6
10°-20°	1425.0	7.0
20°-30°	2400.4	11.7
30°-40°	4028.1	19.7
40°-50°	6162.0	30.1
50°-60°	4492.6	22.0
60°-70°	999.8	4.9
70°-80°	360.6	1.8
80°-90°	63.8	0.3
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°	20464.0	100.0
0°-180°	20464.0	100.0

**Coefficient of Utilization**



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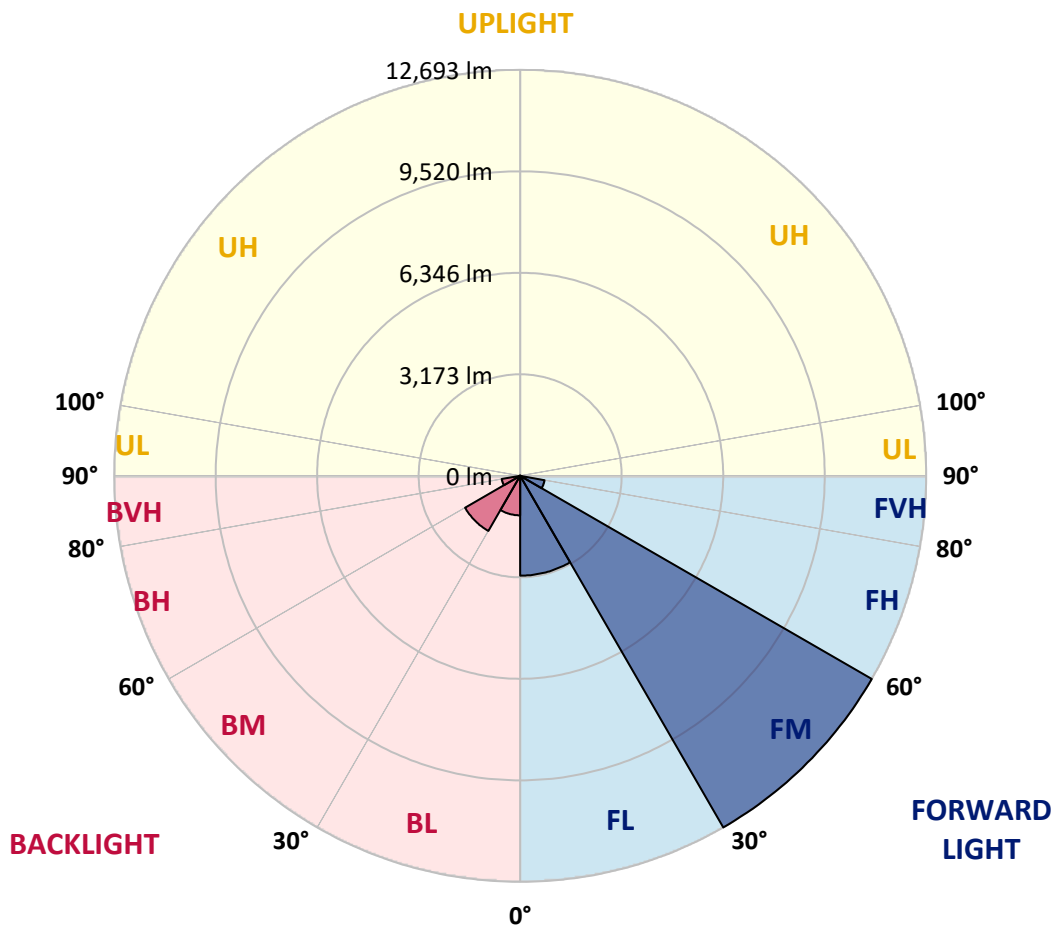
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3121.5	15.3			
FM (30°-60°)	12692.8	62.0			
FH (60°-80°)	774.4	3.8			G1/1800
FVH (80°-90°)	28.6	0.1			G1/100
BL (0°-30°)	1235.7	6.0	B3/2500		
BM (30°-60°)	1989.8	9.7	B2/2500		
BH (60°-80°)	586.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	35.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5768.5	5768.5	5768.5	5768.5	5768.5	5768.5	5768.5	5768.5	5768.5	5768.5	5768.5
2.5°	6791.9	6661.2	6676.0	6582.3	6481.2	6451.6	6348.0	6249.4	6175.4	6017.5	5872.0
5°	7423.3	7383.8	7324.6	7250.7	7174.2	6986.8	6880.7	6757.4	6486.1	6242.0	6000.3
7.5°	7514.5	7507.1	7539.2	7539.2	7566.3	7494.8	7344.4	7258.1	6969.5	6572.4	6123.6
10°	6873.3	6895.5	7050.9	7253.1	7534.3	7729.1	7704.4	7682.2	7366.6	6824.0	6269.1
12.5°	6362.8	6313.5	6404.7	6577.4	6999.1	7470.1	7788.3	7790.8	7709.4	7226.0	6375.1
15°	6074.3	6108.8	6133.5	6214.8	6533.0	7078.0	7637.8	7803.1	8160.7	7509.6	6542.9
17.5°	6259.2	6143.3	6138.4	6158.1	6320.9	6730.3	7359.2	7642.8	8407.3	7874.6	6750.0
20°	6500.9	6498.5	6429.4	6404.7	6402.3	6767.3	7176.7	7561.4	8538.0	8348.1	6959.6
22.5°	6925.1	6925.1	6811.7	6757.4	6641.5	6939.9	7201.3	7462.7	8755.0	8673.7	7060.8
25°	7635.4	7519.5	7324.6	7191.5	7124.9	7230.9	7462.7	7697.0	8944.9	9018.9	7270.4
27.5°	8291.4	8108.9	8012.7	7783.4	7694.6	7632.9	7845.0	8081.8	9166.9	9556.6	7383.8
30°	9036.2	9004.1	8831.5	8535.5	8316.1	8202.6	8397.4	8631.7	9573.8	10106.5	7645.2
32.5°	10367.9	10076.9	9842.6	9480.1	9122.5	8880.8	9073.2	9228.6	10249.6	10681.2	7931.3
35°	11805.7	11712.0	11307.6	10654.0	10106.5	9889.5	10002.9	10118.9	11036.3	11559.1	8412.2
37.5°	13218.9	13090.6	12757.7	12207.7	11541.9	11100.4	11181.8	11317.4	11919.2	12742.9	8999.2
40°	14235.0	14077.1	13909.4	13828.0	13167.1	12562.9	12516.0	12550.5	13112.8	13852.7	9650.3
42.5°	14308.9	14503.8	14555.6	14883.6	14728.2	14232.5	13943.9	13951.3	14252.2	14950.2	10308.8
45°	14153.6	13973.5	14355.8	15251.0	15764.0	15995.8	15510.0	15448.3	14957.6	15586.4	10636.8
47.5°	12523.4	12572.7	13218.9	14634.5	16116.7	17152.5	17039.0	16834.3	15334.9	15564.2	10585.0
50°	9899.4	10197.8	10797.1	12560.4	15130.2	17335.0	18003.3	17529.8	15110.5	14952.6	10057.2
52.5°	6592.2	6715.5	7110.1	9386.4	12165.8	15495.2	16893.5	17002.0	14903.3	14151.1	9388.9
55°	2934.8	2924.9	3479.8	4902.8	7632.9	11790.9	13803.4	14464.3	14106.7	13334.8	8737.8
57.5°	1243.0	1284.9	1511.8	2118.5	3753.6	7115.0	9351.9	9931.4	10848.9	10950.0	6703.2
60°	841.0	845.9	907.6	1060.5	1571.0	3341.7	4905.3	5600.8	6256.8	6212.4	3556.3
62.5°	660.9	678.2	725.1	786.7	932.2	1516.7	2194.9	2582.1	2624.0	2207.3	1349.0
65°	564.8	567.2	614.1	665.9	730.0	882.9	1058.0	1077.7	1090.1	1050.6	991.4
67.5°	466.1	471.0	508.0	567.2	626.4	675.7	725.1	749.7	806.5	917.4	902.6
70°	369.9	377.3	409.4	458.7	513.0	542.6	604.2	626.4	678.2	764.5	799.1
72.5°	281.1	283.6	310.7	345.3	394.6	424.2	476.0	500.6	535.2	609.2	641.2
75°	202.2	209.6	229.4	246.6	254.0	273.7	323.1	350.2	399.5	431.6	434.1
77.5°	106.0	111.0	115.9	115.9	140.6	177.6	209.6	224.4	259.0	283.6	271.3
80°	41.9	44.4	56.7	76.5	98.6	128.2	150.4	157.8	187.4	202.2	209.6
82.5°	24.7	27.1	37.0	54.3	71.5	91.2	108.5	115.9	135.6	152.9	157.8
85°	12.3	14.8	22.2	34.5	46.9	56.7	54.3	51.8	51.8	49.3	51.8
87.5°	4.9	4.9	7.4	7.4	7.4	9.9	12.3	12.3	12.3	14.8	14.8
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°	5768.5	5768.5	5768.5	5768.5	5768.5	5768.5	5768.5	5768.5	5768.5	5768.5	5768.5
2.5°	5775.9	5677.2	5586.0	5418.3	5235.8	5184.0	4971.9	4895.4	4841.2	4777.0	4757.3
5°	5805.5	5674.7	5381.3	5043.4	4774.6	4429.3	4202.4	3958.3	3780.7	3736.3	3724.0
7.5°	5867.1	5642.7	5137.1	4626.6	4076.6	3608.1	3250.5	3058.1	2887.9	2878.1	2860.8
10°	5936.2	5546.5	4870.8	4069.2	3366.4	2932.3	2717.8	2633.9	2592.0	2582.1	2577.2
12.5°	5992.9	5526.8	4572.4	3526.7	2863.3	2601.9	2537.7	2530.3	2547.6	2552.5	2562.4
15°	6017.5	5447.9	4212.3	3040.8	2550.1	2453.9	2481.0	2510.6	2522.9	2555.0	2530.3
17.5°	6064.4	5346.7	3768.4	2656.1	2375.0	2392.2	2439.1	2473.6	2493.3	2515.5	2483.5
20°	6089.1	5255.5	3351.6	2426.7	2313.3	2345.4	2409.5	2436.6	2461.3	2471.1	2434.1
22.5°	6066.9	5068.1	2984.1	2241.8	2254.1	2296.0	2352.8	2382.4	2367.6	2328.1	2305.9
25°	6007.7	4804.2	2601.9	2123.4	2170.3	2244.2	2288.6	2266.4	2239.3	2217.1	2209.7
27.5°	6005.2	4481.1	2325.6	2014.9	2098.7	2199.9	2185.1	2165.3	2177.7	2160.4	2140.7
30°	6017.5	4167.9	2098.7	1953.2	2047.0	2096.3	2113.5	2093.8	2108.6	2076.5	2086.4
32.5°	5953.4	3862.1	1950.8	1881.7	1985.3	1982.8	2039.6	2054.4	2019.8	1953.2	1963.1
35°	5980.6	3615.5	1825.0	1849.7	1916.2	1916.2	1960.6	1943.4	1852.1	1812.7	1822.5
37.5°	6168.0	3373.8	1763.3	1805.3	1849.7	1869.4	1854.6	1780.6	1758.4	1758.4	1763.3
40°	6345.6	3166.6	1726.3	1795.4	1788.0	1800.3	1691.8	1699.2	1699.2	1701.7	1689.4
42.5°	6503.4	3026.0	1696.8	1736.2	1748.5	1684.4	1617.8	1610.4	1627.7	1625.2	1615.4
45°	6560.1	2910.1	1654.8	1669.6	1679.5	1573.4	1541.4	1526.6	1546.3	1553.7	1563.6
47.5°	6343.1	2813.9	1608.0	1578.4	1558.6	1489.6	1447.7	1420.5	1445.2	1487.1	1497.0
50°	6064.4	2688.2	1534.0	1477.3	1435.3	1405.7	1376.1	1349.0	1366.3	1395.9	1388.5
52.5°	5652.6	2490.9	1440.3	1381.1	1309.6	1317.0	1289.8	1275.0	1284.9	1284.9	1277.5
55°	5065.6	2047.0	1282.4	1240.5	1181.3	1201.0	1206.0	1186.2	1166.5	1183.8	1169.0
57.5°	3457.6	1445.2	1144.3	1144.3	1085.1	1112.3	1109.8	1062.9	1016.1	1021.0	1011.1
60°	2000.1	1151.7	1055.5	1045.7	984.0	1006.2	1011.1	979.1	907.6	912.5	902.6
62.5°	1136.9	984.0	922.4	907.6	895.2	915.0	915.0	873.0	811.4	816.3	806.5
65°	966.8	912.5	823.7	821.2	816.3	821.2	801.5	757.1	702.9	680.7	683.1
67.5°	878.0	843.4	757.1	734.9	720.1	717.7	680.7	638.7	614.1	594.4	591.9
70°	769.5	742.3	678.2	648.6	633.8	599.3	562.3	535.2	500.6	490.8	500.6
72.5°	609.2	606.7	582.0	550.0	517.9	490.8	458.7	421.7	389.7	382.3	365.0
75°	421.7	426.7	431.6	426.7	399.5	365.0	328.0	298.4	259.0	236.8	231.8
77.5°	276.2	283.6	291.0	281.1	263.9	231.8	207.2	170.2	140.6	123.3	120.8
80°	202.2	212.1	217.0	209.6	189.9	165.2	138.1	108.5	86.3	71.5	71.5
82.5°	155.4	165.2	170.2	157.8	138.1	118.4	98.6	76.5	59.2	46.9	44.4
85°	54.3	51.8	61.7	64.1	76.5	71.5	59.2	44.4	34.5	24.7	22.2
87.5°	14.8	14.8	17.3	17.3	14.8	12.3	12.3	12.3	9.9	7.4	7.4
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)