

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: P530728

Luminaire Tested: **GALN-SA6A-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
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-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19223 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

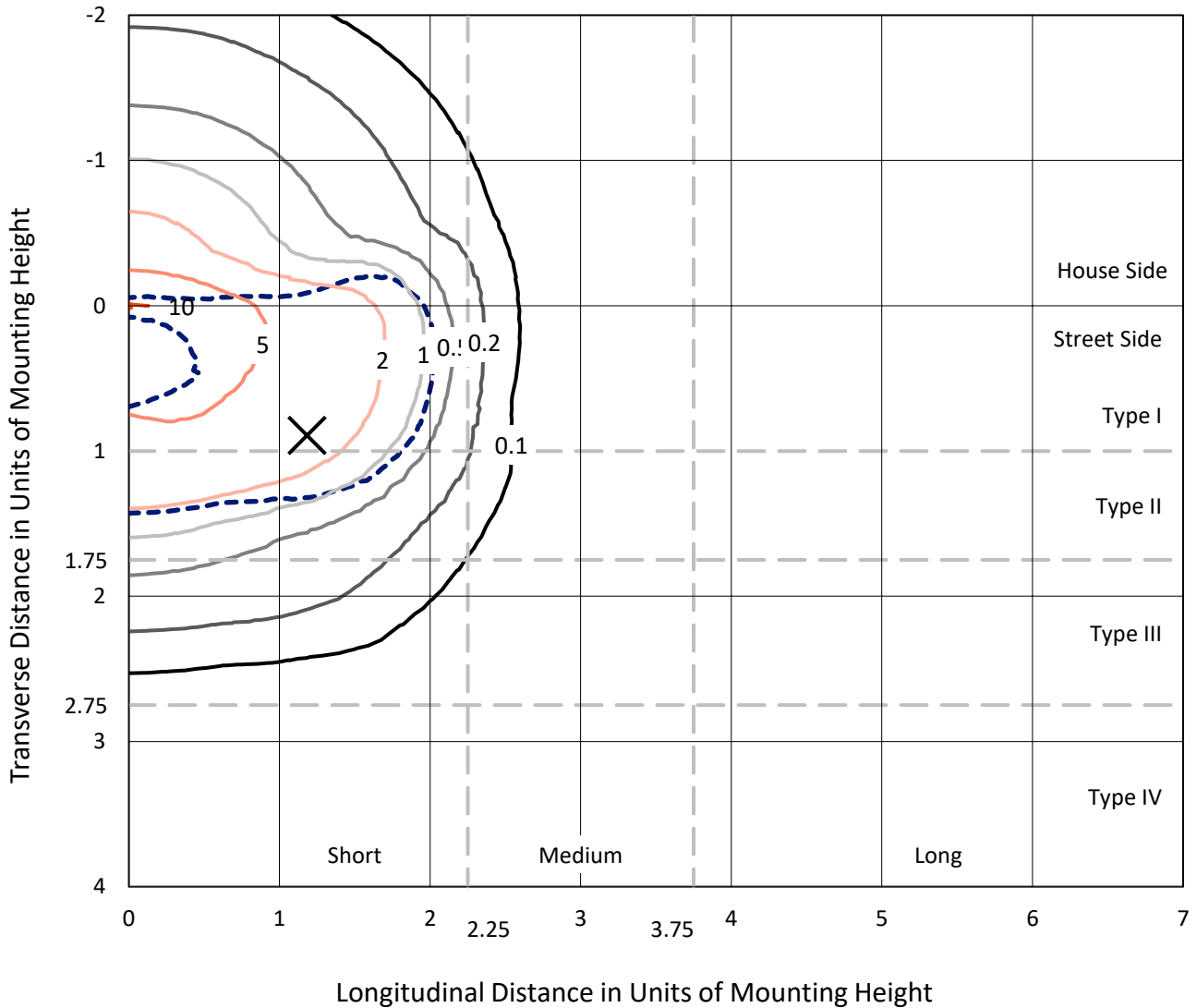
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

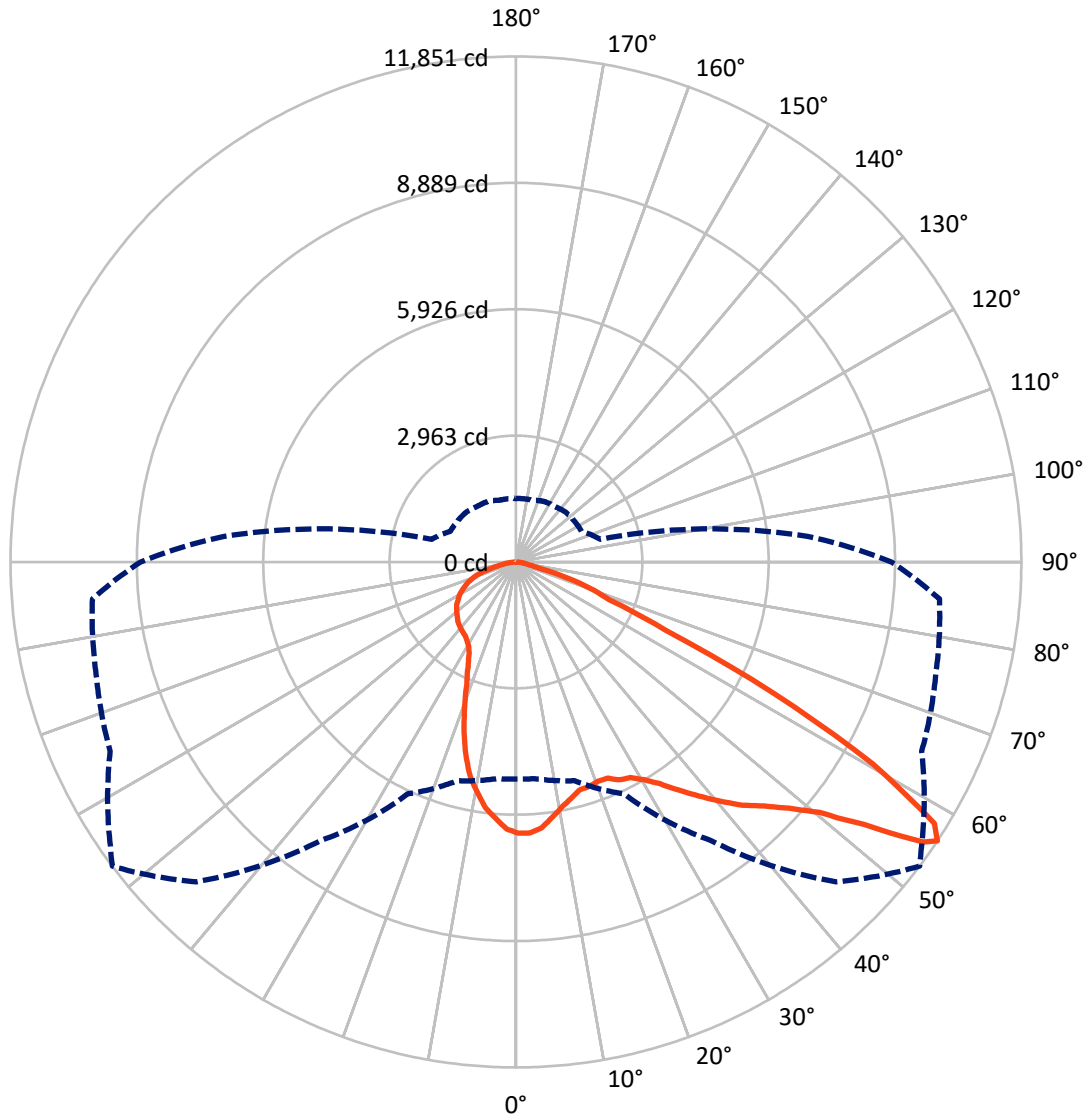
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5609.7	0.0	5609.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	13613.3	0.0	13613.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	19223.0	0.0	19223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.0	2.9
10°-20°	1406.2	7.3
20°-30°	2073.5	10.8
30°-40°	2962.7	15.4
40°-50°	4077.7	21.2
50°-60°	4818.8	25.1
60°-70°	2568.1	13.4
70°-80°	651.5	3.4
80°-90°	101.6	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°	19223.0	100.0
0°-180°	19223.0	100.0

Coefficient of Utilization



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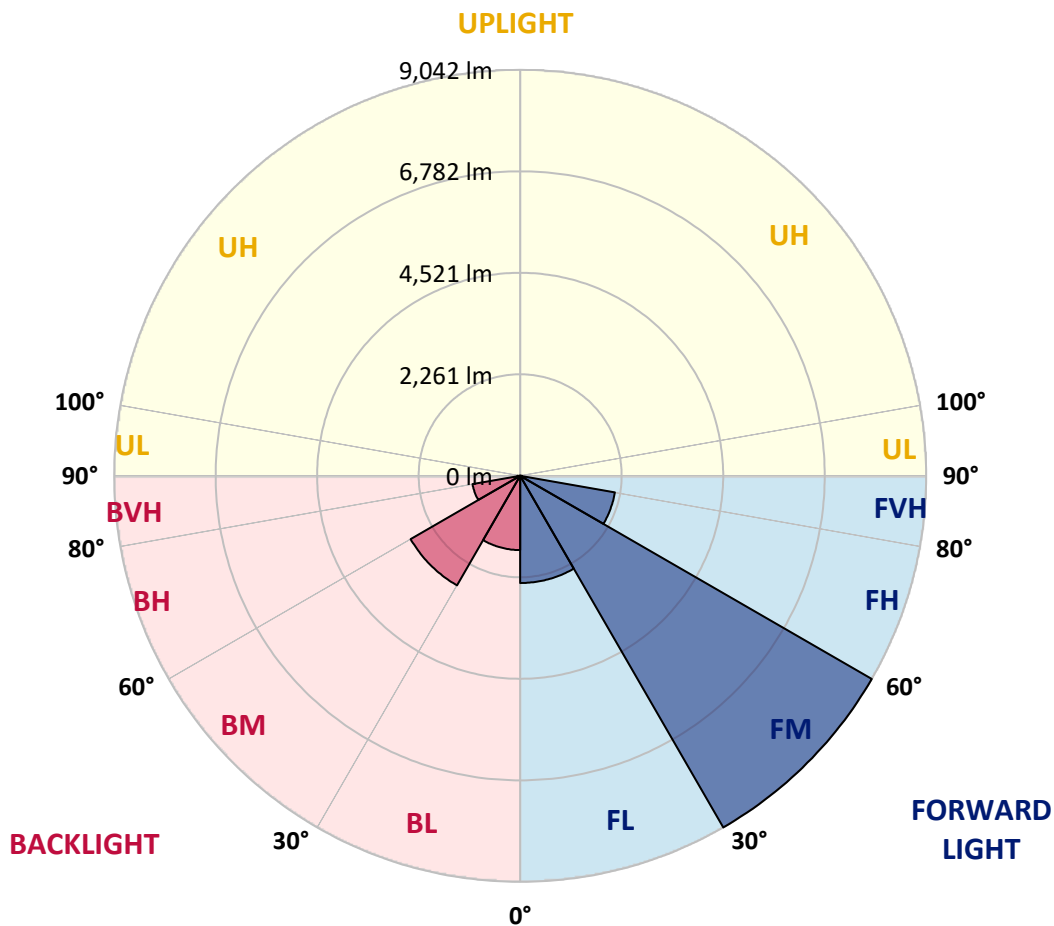
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2388.2	12.4			
FM (30°-60°)	9042.1	47.0			
FH (60°-80°)	2142.2	11.1			G2/5000
FVH (80°-90°)	40.8	0.2			G1/100
BL (0°-30°)	1654.5	8.6	B3/2500		
BM (30°-60°)	2817.0	14.7	B3/5000		
BH (60°-80°)	1077.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	60.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6359.7	6359.7	6359.7	6359.7	6359.7	6359.7	6359.7	6359.7	6359.7	6359.7	6359.7
2.5°	6280.8	6226.6	6258.6	6246.3	6347.4	6377.0	6362.2	6374.5	6431.2	6404.1	6347.4
5°	5869.0	5945.4	5960.2	5997.2	6056.4	6172.3	6263.6	6288.2	6315.3	6441.1	6428.8
7.5°	5494.2	5546.0	5518.8	5627.3	5755.6	5943.0	6053.9	6073.7	6322.7	6391.8	6443.6
10°	5257.4	5205.7	5329.0	5358.5	5504.0	5718.6	5851.7	5933.1	6160.0	6433.7	6465.8
12.5°	5038.0	5020.7	5094.7	5178.5	5341.3	5563.2	5698.8	5730.9	6081.1	6369.6	6520.0
15°	4875.2	4855.5	4929.5	4991.1	5181.0	5378.3	5550.9	5642.1	5994.8	6332.6	6473.2
17.5°	4747.0	4744.5	4786.4	4897.4	5092.2	5257.4	5536.1	5541.0	5950.4	6389.3	6512.6
20°	4739.6	4737.1	4744.5	4867.8	5045.4	5247.6	5489.2	5533.6	5950.4	6349.9	6515.1
22.5°	4801.2	4761.8	4806.2	4885.1	5013.3	5264.8	5506.5	5605.1	6093.4	6544.7	6626.1
25°	4899.9	4909.7	4934.4	4961.5	5035.5	5304.3	5659.4	5740.8	6261.1	6712.4	6778.9
27.5°	5079.9	5075.0	5084.8	5099.6	5163.7	5341.3	5721.0	5930.6	6611.3	7010.7	6944.2
30°	5343.7	5326.5	5365.9	5417.7	5358.5	5459.6	5925.7	6083.5	6936.8	7311.6	7129.1
32.5°	5582.9	5647.1	5721.0	5743.2	5671.7	5691.4	6197.0	6357.3	7208.0	7681.5	7356.0
35°	5881.3	5933.1	6031.8	6100.8	6088.5	6029.3	6566.9	6778.9	7600.1	7952.7	7595.2
37.5°	6172.3	6234.0	6396.7	6601.4	6488.0	6460.8	6961.4	7136.5	7720.9	8098.2	7770.3
40°	6640.8	6638.4	6919.5	7025.5	7126.6	7079.8	7370.8	7430.0	7785.1	8066.2	7775.2
42.5°	7190.8	7156.2	7442.3	7607.5	7738.2	7743.1	7797.4	7777.7	7814.6	7903.4	7723.4
45°	7713.5	7787.5	8076.0	8372.0	8502.7	8517.4	8157.4	8120.4	7866.4	7856.6	7624.8
47.5°	8352.2	8369.5	8606.2	8995.8	9299.2	9195.6	8623.5	8542.1	8093.3	8169.7	7790.0
50°	8389.2	8517.4	8729.5	9188.2	10120.3	10093.2	9227.6	9074.8	8458.3	8613.6	8251.1
52.5°	7614.9	7585.3	7836.8	8586.5	10058.7	10985.9	10228.8	9863.9	9242.4	9124.1	8998.3
55°	5802.4	5871.5	6093.4	6850.5	8734.5	10998.2	11592.5	11294.1	10080.9	9878.7	9733.2
56°	5089.8	5099.6	5309.2	5999.7	7970.0	10606.1	11851.4	11609.8	10497.6	10189.4	9967.4
57.5°	4219.3	4162.6	4271.1	4648.3	6727.2	9777.6	11567.8	11804.6	10985.9	10524.7	10216.5
60°	3321.7	3309.3	3264.9	3334.0	4251.3	7365.8	9629.6	10162.2	10936.6	10209.1	9785.0
62.5°	2712.6	2650.9	2739.7	2838.3	2954.2	4569.4	6766.6	7079.8	8682.7	8150.0	7351.0
65°	2103.5	2073.9	2184.8	2505.4	2574.5	2902.4	3854.3	4096.0	5126.7	5035.5	4433.8
67.5°	1447.5	1452.5	1548.6	2036.9	2387.1	2357.5	2359.9	2485.7	2675.6	1987.6	1731.1
70°	917.3	914.9	966.7	1311.9	1921.0	1940.7	1842.1	1805.1	1711.4	1035.7	1097.4
72.5°	589.4	572.1	599.2	725.0	993.8	1149.1	1183.7	1205.9	991.3	813.8	882.8
75°	332.9	315.6	305.8	337.8	392.1	453.7	498.1	512.9	574.6	616.5	653.5
77.5°	101.1	91.2	111.0	148.0	194.8	261.4	318.1	328.0	387.2	436.5	473.5
80°	44.4	49.3	69.0	98.6	138.1	184.9	224.4	239.2	278.7	315.6	325.5
82.5°	27.1	29.6	46.9	66.6	96.2	130.7	160.3	165.2	204.7	234.3	241.7
85°	9.9	12.3	24.7	39.5	61.6	83.8	83.8	91.2	83.8	83.8	91.2
87.5°	0.0	0.0	2.5	4.9	4.9	7.4	9.9	9.9	12.3	14.8	17.3
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°	6359.7	6359.7	6359.7	6359.7	6359.7	6359.7	6359.7	6359.7	6359.7	6359.7	6359.7
2.5°	6377.0	6364.7	6344.9	6273.4	6266.0	6243.8	6120.5	6100.8	6120.5	6061.3	6066.3
5°	6364.7	6401.6	6253.7	6182.2	6049.0	5952.8	5841.9	5785.2	5684.1	5619.9	5691.4
7.5°	6418.9	6404.1	6219.2	6063.8	5864.1	5619.9	5425.1	5314.2	5136.6	5087.3	5124.3
10°	6399.2	6320.3	6103.3	5898.6	5521.3	5306.8	4991.1	4685.3	4517.6	4431.3	4419.0
12.5°	6372.1	6349.9	5987.4	5634.7	5237.7	4786.4	4342.6	4054.0	3780.3	3662.0	3679.2
15°	6404.1	6216.7	5770.4	5324.0	4796.3	4204.5	3726.1	3353.7	3163.8	3087.4	3087.4
17.5°	6389.3	6152.6	5666.8	4976.3	4308.0	3607.7	3082.5	2858.1	2779.1	2779.1	2801.3
20°	6396.7	6194.5	5457.2	4628.6	3731.0	3038.1	2655.8	2574.5	2609.0	2621.3	2633.7
22.5°	6438.6	6056.4	5252.5	4246.4	3195.9	2599.1	2411.7	2414.2	2475.8	2542.4	2530.1
25°	6490.4	6002.2	5003.4	3866.6	2786.5	2384.6	2325.4	2318.0	2364.9	2399.4	2404.3
27.5°	6446.0	5908.5	4749.5	3393.2	2451.2	2241.6	2229.2	2234.2	2249.0	2318.0	2295.8
30°	6591.5	5935.6	4431.3	2996.1	2266.2	2194.7	2179.9	2172.5	2194.7	2214.4	2197.2
32.5°	6771.5	5839.4	4194.6	2613.9	2175.0	2160.2	2130.6	2120.7	2133.1	2113.3	2123.2
35°	6850.5	5822.1	3886.4	2340.2	2103.5	2091.1	2073.9	2071.4	2073.9	2056.6	2041.8
37.5°	6894.8	5903.5	3533.7	2214.4	2059.1	2071.4	2032.0	2027.0	1982.6	1992.5	1999.9
40°	6971.3	5777.8	3247.7	2093.6	2032.0	2007.3	1972.8	1965.4	1935.8	1918.5	1935.8
42.5°	6860.3	5740.8	2966.6	2041.8	1992.5	1965.4	1940.7	1898.8	1888.9	1874.1	1864.3
45°	6771.5	5528.7	2715.0	1977.7	1945.6	1930.9	1884.0	1839.6	1802.6	1817.4	1795.2
47.5°	6838.1	5454.7	2466.0	1923.5	1881.5	1864.3	1817.4	1782.9	1745.9	1728.6	1723.7
50°	7104.4	5592.8	2256.4	1884.0	1827.3	1817.4	1755.8	1716.3	1681.8	1669.5	1674.4
52.5°	7740.7	5970.1	2113.3	1802.6	1775.5	1731.1	1696.6	1647.3	1625.1	1585.6	1610.3
55°	8547.0	6584.1	2076.3	1726.2	1711.4	1671.9	1625.1	1588.1	1546.2	1514.1	1506.7
56°	8806.0	6877.6	2046.8	1696.6	1671.9	1649.7	1588.1	1565.9	1499.3	1491.9	1487.0
57.5°	9015.6	7136.5	2051.7	1639.9	1615.2	1595.5	1558.5	1504.2	1459.9	1432.7	1445.1
60°	8542.1	6680.3	1958.0	1553.6	1548.6	1511.6	1459.9	1435.2	1380.9	1348.9	1341.5
62.5°	6349.9	4534.9	1588.1	1442.6	1440.1	1400.7	1341.5	1314.4	1304.5	1260.1	1260.1
65°	3657.0	2843.3	1373.5	1351.3	1331.6	1292.2	1233.0	1210.8	1186.1	1171.3	1159.0
67.5°	1561.0	1474.6	1247.8	1245.3	1223.1	1173.8	1114.6	1080.1	1048.0	1018.4	1033.2
70°	1131.9	1149.1	1126.9	1114.6	1087.5	1025.8	974.1	932.1	882.8	863.1	877.9
72.5°	897.6	934.6	966.7	969.1	937.1	865.6	808.8	752.1	697.9	670.7	683.1
75°	680.6	705.3	737.3	744.7	697.9	648.5	594.3	535.1	493.2	461.1	466.1
77.5°	490.7	485.8	515.4	510.5	488.3	453.7	404.4	350.2	303.3	273.7	276.2
80°	335.4	342.8	360.0	357.6	330.4	308.2	271.3	226.9	192.3	167.7	162.8
82.5°	234.3	246.6	261.4	249.1	226.9	204.7	177.5	145.5	118.4	98.6	93.7
85°	83.8	96.2	111.0	118.4	125.8	120.8	101.1	81.4	59.2	49.3	46.9
87.5°	17.3	19.7	22.2	22.2	22.2	19.7	17.3	17.3	14.8	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)