

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: P269420

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33296.8 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 382
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: 25 FT

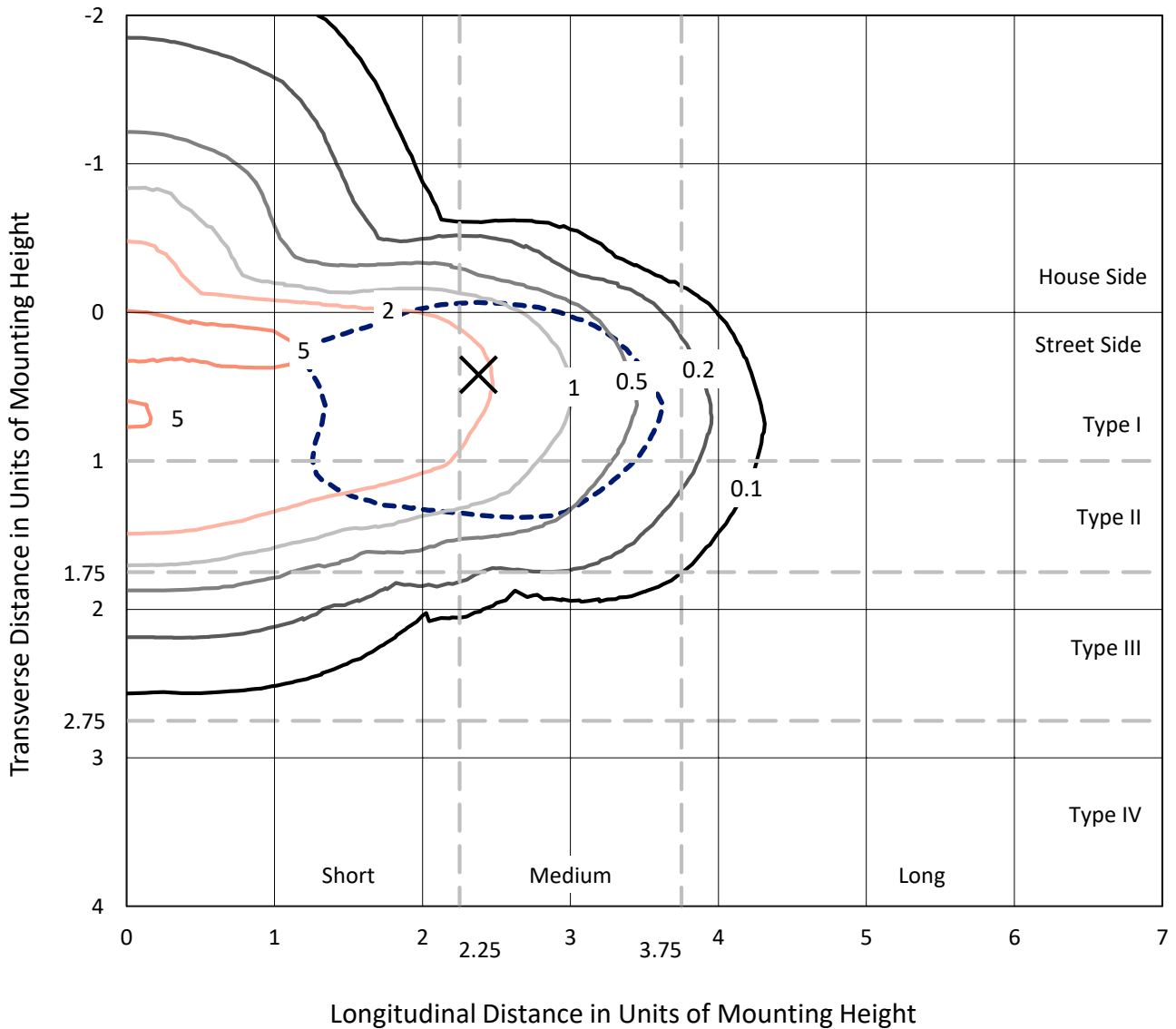


REPORT NUMBER: P269420

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

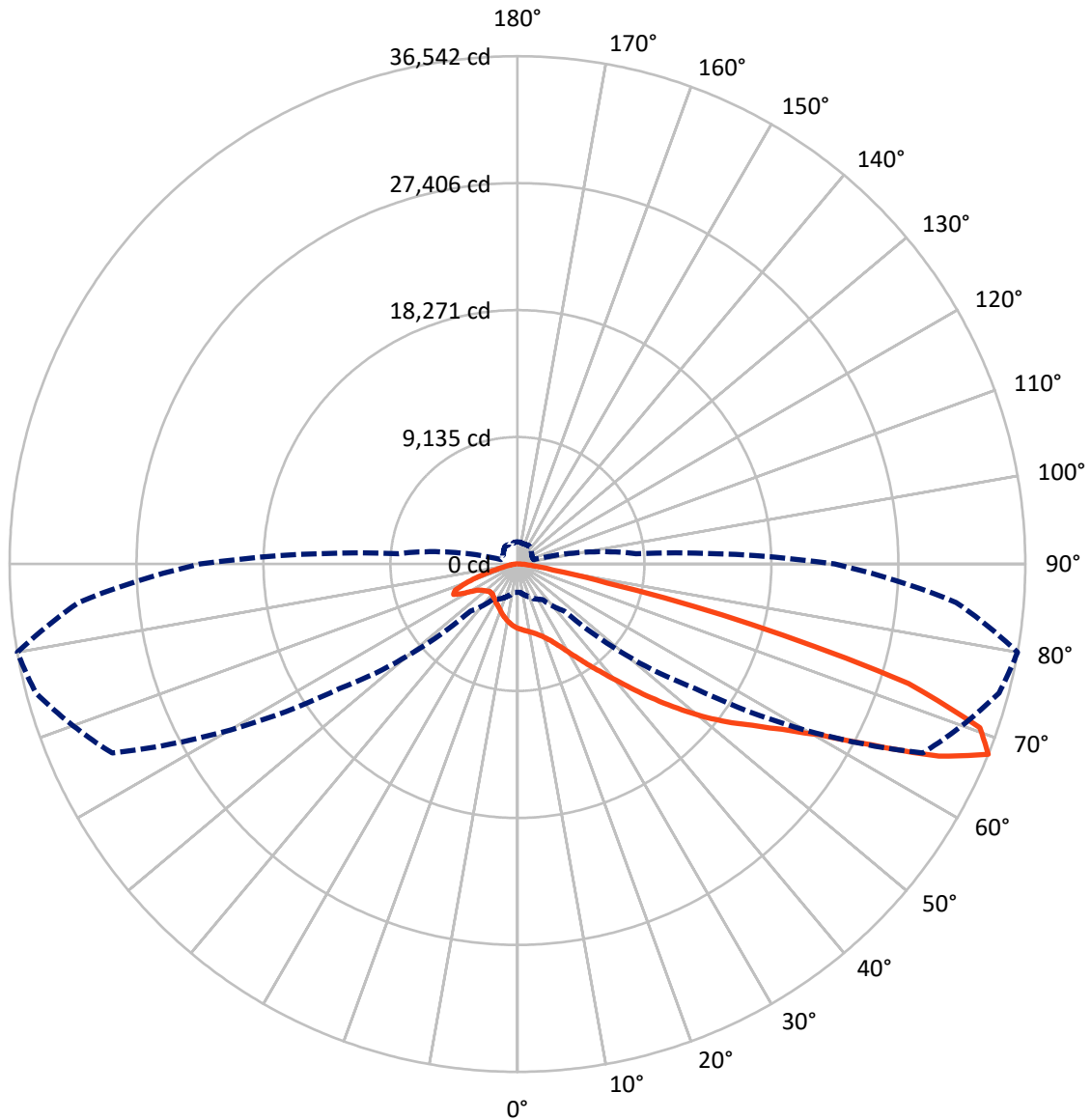
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269420
CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P269420

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6132.0	0.0	6132.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	27164.8	0.0	27164.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	33296.8	0.0	33296.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.7	1.3
10°-20°	1229.2	3.7
20°-30°	2034.7	6.1
30°-40°	3328.2	10.0
40°-50°	5373.7	16.1
50°-60°	7758.1	23.3
60°-70°	8561.5	25.7
70°-80°	3946.3	11.9
80°-90°	638.3	1.9
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°	33296.8	100.0
0°-180°	33296.8	100.0



REPORT NUMBER: P269420

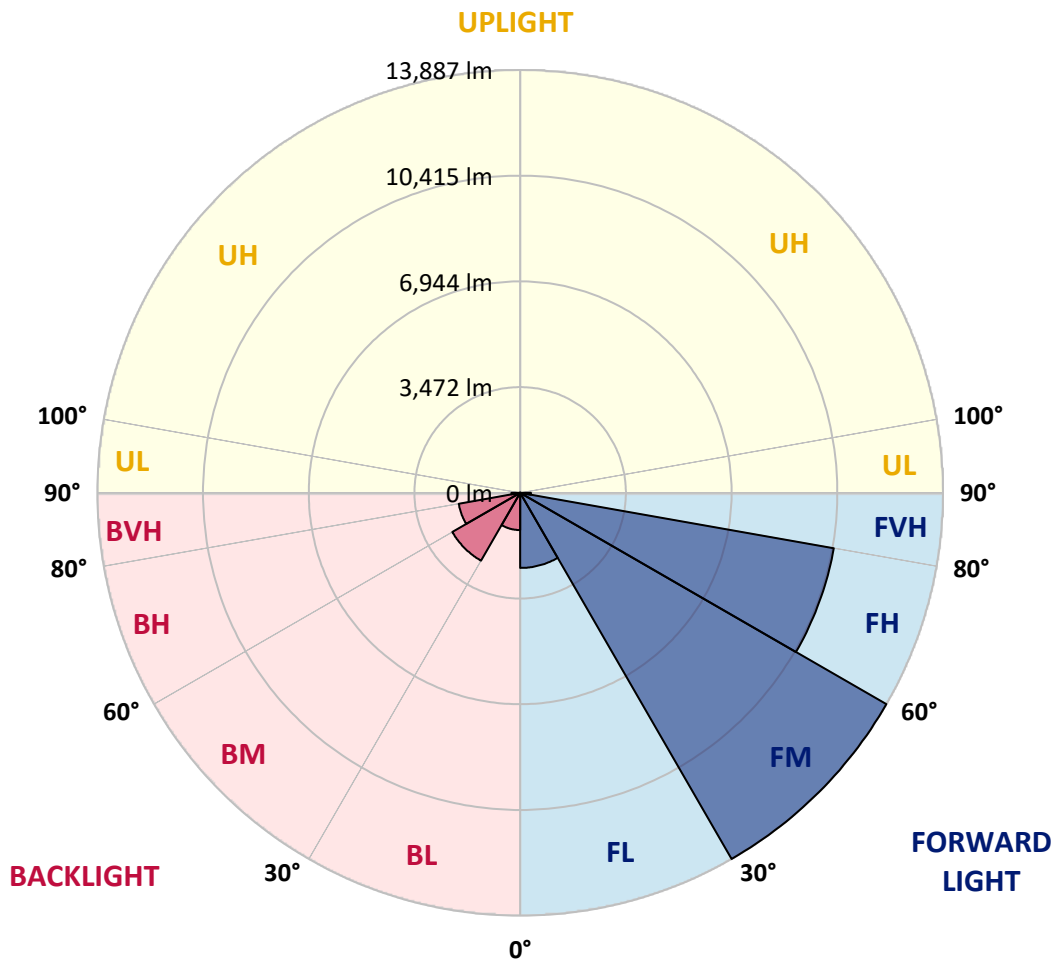
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2467.2	7.4			
FM (30°-60°)	13887.2	41.7			
FH (60°-80°)	10459.4	31.4			G4/12000
FVH (80°-90°)	350.9	1.1			G3/500
BL (0°-30°)	1223.4	3.7	B3/2500		
BM (30°-60°)	2572.8	7.7	B3/5000		
BH (60°-80°)	2048.5	6.2	B3/2500		G3/2500
BVH (80°-90°)	287.4	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





REPORT NUMBER: P269420

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9
2.5°	5060.3	5030.8	5035.7	5027.5	5002.9	4960.4	4914.4	4830.7	4743.9	4698.0	4661.9
5°	5483.3	5475.0	5463.5	5437.4	5375.0	5286.4	5176.7	5029.2	4870.2	4786.4	4706.2
7.5°	5799.5	5794.6	5780.0	5763.5	5702.9	5596.4	5430.8	5220.9	4989.7	4875.0	4750.4
10°	5825.8	5834.0	5845.5	5889.7	5897.9	5840.6	5671.7	5417.7	5114.4	4966.9	4807.9
12.5°	5602.9	5621.0	5665.2	5778.3	5897.9	5968.3	5881.6	5624.2	5260.3	5081.6	4880.0
15°	5307.8	5317.6	5371.8	5527.5	5742.1	5960.3	6042.2	5852.0	5448.8	5229.2	4988.2
17.5°	5181.7	5186.5	5224.3	5327.5	5527.5	5839.0	6132.3	6099.5	5680.0	5412.6	5121.0
20°	5117.6	5129.1	5183.2	5284.9	5411.1	5683.1	6145.5	6366.7	5955.4	5642.3	5288.1
22.5°	5299.6	5294.7	5314.4	5365.1	5471.8	5635.6	6135.7	6642.2	6306.1	5937.3	5506.2
25°	5724.2	5742.1	5707.8	5650.3	5684.8	5799.5	6188.1	6940.5	6745.5	6316.0	5791.4
27.5°	6329.1	6311.0	6260.2	6125.8	6055.2	6104.4	6361.8	7261.8	7291.3	6814.3	6168.4
30°	6932.3	6917.5	6868.4	6704.4	6560.1	6519.2	6699.5	7630.7	7942.0	7412.5	6630.7
32.5°	7558.5	7542.1	7496.1	7332.2	7158.6	7063.5	7179.9	8056.8	8709.2	8127.2	7174.9
35°	8330.5	8299.4	8202.7	7974.9	7804.4	7730.5	7784.7	8592.7	9594.3	8973.1	7835.5
37.5°	9056.7	9104.2	9005.9	8691.1	8469.8	8443.7	8504.3	9246.9	10548.3	9918.9	8594.4
40°	9786.1	9794.4	9705.8	9448.6	9220.7	9178.1	9330.4	10040.3	11674.6	11050.1	9517.4
42.5°	10540.3	10556.6	10407.5	10169.7	10002.5	10010.7	10184.5	10969.7	12966.2	12382.6	10579.6
45°	11433.5	11458.2	11294.2	10982.8	10830.3	11136.8	11064.8	12012.2	14382.6	13897.3	11799.1
47.5°	12368.0	12405.7	12281.1	11989.3	11799.1	12220.5	11945.0	13167.9	15907.0	15521.9	13138.4
50°	12877.7	12931.8	13053.1	13031.8	12990.8	12920.3	12926.9	14407.1	17479.0	17213.5	14515.4
52.5°	12603.9	12602.3	13044.9	13582.6	14156.3	14199.0	14123.5	15713.6	18947.8	18867.6	15812.0
55°	11351.6	11437.0	12107.3	13148.2	14715.3	15693.8	15916.9	17210.2	20390.3	20483.7	17128.3
57.5°	9266.6	9337.1	10241.8	11692.6	13961.3	16582.4	18467.4	19385.5	22003.4	22439.3	18880.5
60°	6284.8	6370.1	7328.9	9071.4	11931.8	16087.3	20895.1	23267.1	23934.4	24926.0	21339.3
62.5°	3693.2	3770.1	4552.2	5722.6	8400.9	13787.5	21960.7	28789.7	27001.3	28678.2	25089.9
65°	2542.5	2594.9	2975.1	3562.0	4827.5	9286.1	20639.5	32602.5	31720.6	33327.1	29438.8
67.5°	2045.7	2039.2	2340.9	2740.8	3108.0	4788.1	15607.1	32171.4	35871.1	36541.6	31696.1
70°	1685.1	1678.6	1883.4	2214.6	2483.5	2696.5	8501.0	27148.8	35025.3	35297.5	29617.5
72.5°	1409.7	1416.3	1547.4	1793.2	2037.5	2031.0	3735.8	19098.5	27553.7	29435.5	23609.8
75°	1190.1	1193.4	1280.3	1453.9	1654.0	1636.0	2026.0	10346.8	16016.9	17326.6	13087.5
77.5°	1013.1	1016.3	1072.0	1168.8	1311.3	1304.8	1478.6	4470.1	6681.5	6599.5	4476.8
80°	903.2	903.2	929.4	947.4	1026.1	996.7	1096.7	2147.4	2824.5	2608.0	1786.8
82.5°	708.1	711.4	872.1	865.4	808.1	770.4	770.4	1265.5	1496.5	1383.5	1045.8
85°	398.3	396.7	562.2	678.6	711.4	542.5	537.6	708.1	814.8	717.9	506.6
87.5°	170.5	173.7	260.7	301.7	403.2	337.8	332.7	365.5	414.7	359.1	234.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269420

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9
2.5°	4627.4	4584.9	4491.4	4375.0	4270.2	4201.4	4139.0	4048.9	4053.8	3991.4	3945.6
5°	4624.3	4535.7	4319.4	4062.0	3814.5	3635.8	3501.4	3380.1	3350.6	3293.1	3258.8
7.5°	4627.4	4483.4	4119.4	3707.9	3401.4	3175.1	3060.4	2996.4	2981.7	2962.2	2963.7
10°	4638.9	4435.7	3899.7	3376.8	3055.6	2906.3	2878.4	2898.1	2921.1	2927.7	2929.4
12.5°	4665.3	4393.2	3658.7	3081.7	2839.2	2793.2	2840.8	2908.0	2952.2	2973.6	2972.0
15°	4724.2	4360.4	3427.7	2850.6	2719.4	2744.1	2832.5	2927.7	2991.5	3021.1	3022.7
17.5°	4788.1	4312.9	3189.9	2673.5	2631.0	2693.3	2803.2	2914.6	2993.2	3026.0	3032.6
20°	4871.8	4253.7	2940.8	2540.8	2547.4	2617.8	2721.1	2832.5	2919.4	2947.2	2960.5
22.5°	4981.6	4189.9	2722.8	2432.6	2452.3	2506.5	2586.7	2683.3	2758.9	2771.9	2783.4
25°	5129.1	4121.1	2549.0	2334.2	2342.4	2373.6	2427.7	2485.2	2537.5	2522.8	2534.3
27.5°	5327.5	4062.0	2419.4	2244.1	2229.4	2235.9	2263.8	2281.9	2309.6	2268.7	2273.6
30°	5560.2	3998.0	2319.6	2165.5	2124.4	2113.0	2119.6	2129.3	2150.6	2094.9	2086.8
32.5°	5830.7	3921.0	2226.1	2096.6	2039.2	2016.2	2019.5	2045.7	2127.7	2093.3	2075.3
35°	6145.5	3834.1	2127.7	2021.1	1981.8	1949.1	1945.8	2027.7	2272.0	2250.7	2234.3
37.5°	6514.2	3747.3	2029.4	1935.8	1939.3	1903.1	1891.7	1985.2	2299.8	2216.2	2204.8
40°	6983.1	3701.3	1945.8	1845.7	1886.7	1881.8	1859.0	1906.5	2116.2	1963.8	1944.1
42.5°	7563.4	3707.9	1883.4	1749.1	1824.5	1876.9	1840.8	1842.6	1917.9	1803.2	1785.1
45°	8279.7	3785.0	1839.2	1672.0	1754.0	1872.0	1834.2	1808.1	1814.7	1754.0	1744.1
47.5°	9115.7	3944.0	1808.1	1608.1	1686.7	1853.9	1832.6	1798.2	1783.5	1750.6	1742.5
50°	10045.1	4175.1	1785.1	1547.4	1626.1	1824.5	1834.2	1788.3	1771.9	1758.9	1754.0
52.5°	10958.2	4439.1	1750.6	1495.0	1578.6	1788.3	1839.2	1778.6	1760.5	1750.6	1745.8
55°	11976.2	4768.6	1698.2	1450.8	1539.2	1742.5	1839.2	1763.8	1744.1	1745.8	1744.1
57.5°	13351.5	5301.3	1636.0	1413.0	1491.6	1686.7	1808.1	1747.5	1722.8	1724.4	1726.2
60°	15500.6	6240.5	1560.5	1375.3	1432.6	1621.3	1765.4	1711.4	1686.7	1693.3	1694.9
62.5°	18660.9	7619.2	1462.3	1319.6	1370.4	1550.7	1706.4	1665.5	1640.8	1657.3	1657.3
65°	21946.0	8835.4	1340.9	1249.2	1304.8	1473.7	1632.7	1608.1	1583.5	1621.3	1619.6
67.5°	22829.4	8563.4	1219.5	1172.1	1239.2	1388.4	1544.1	1531.0	1518.0	1583.5	1580.2
70°	20280.5	6874.9	1108.1	1093.3	1167.1	1296.7	1449.1	1449.1	1440.9	1490.1	1478.6
72.5°	15451.3	4875.0	1001.6	1009.8	1085.2	1196.6	1345.8	1357.2	1344.1	1368.7	1359.0
75°	8271.6	2790.0	895.0	918.0	983.6	1095.0	1231.0	1242.5	1234.4	1232.7	1237.7
77.5°	2749.0	1363.8	783.5	819.7	876.9	990.1	1111.5	1129.3	1109.8	1106.5	1104.8
80°	1224.5	857.3	660.7	708.1	759.0	870.5	985.3	1000.0	978.7	1008.1	970.3
82.5°	786.8	563.9	529.6	581.9	631.1	750.8	859.0	862.3	842.6	978.7	834.3
85°	381.9	349.1	398.3	445.9	488.5	590.1	711.4	713.1	663.8	604.9	583.5
87.5°	190.1	203.2	265.5	308.2	329.5	404.9	518.1	508.1	486.8	442.5	408.2
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)