

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: P193924

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193924
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-T2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31273 lumens
Efficiency: N/A
Efficacy: 81.9 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

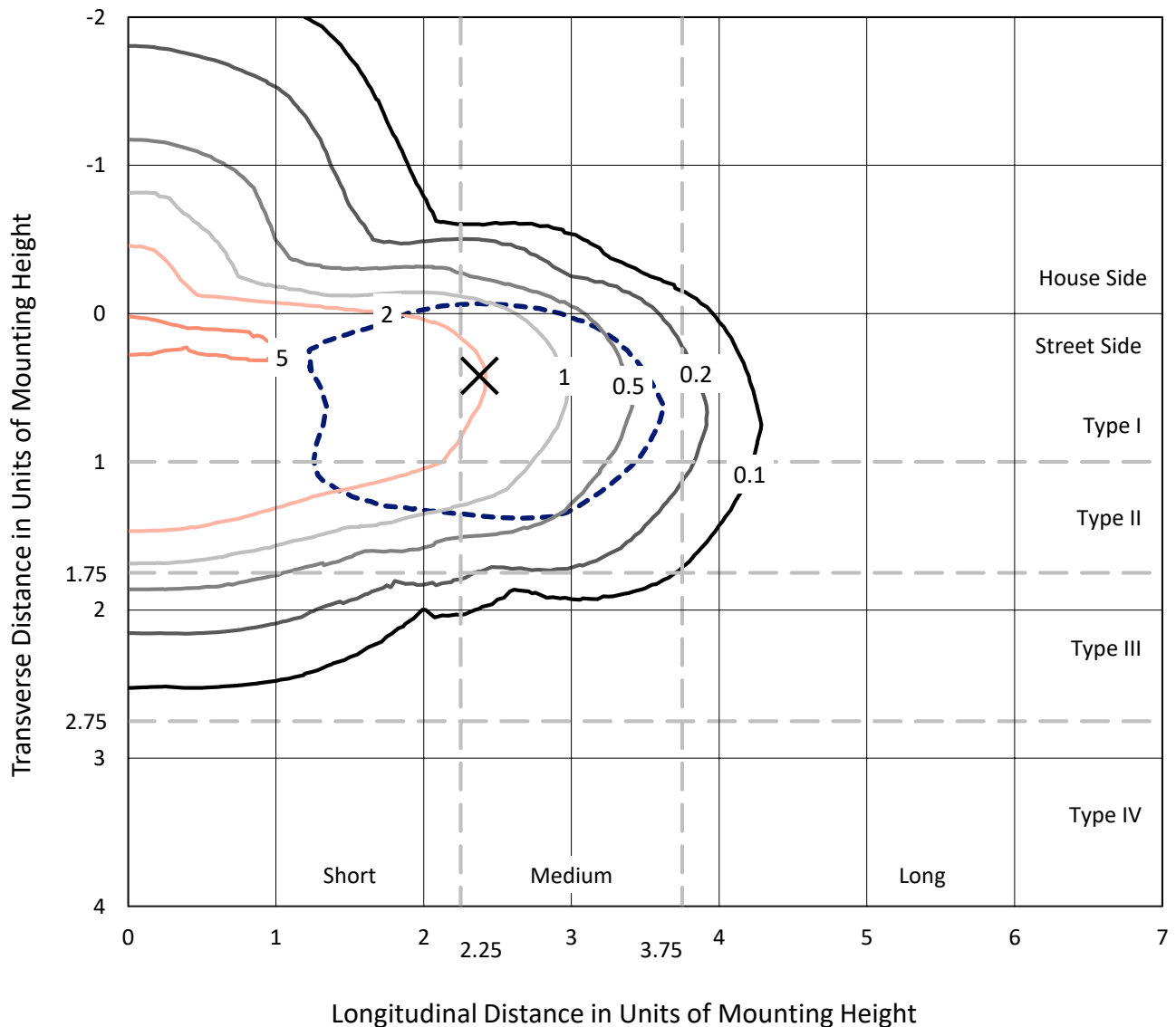


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

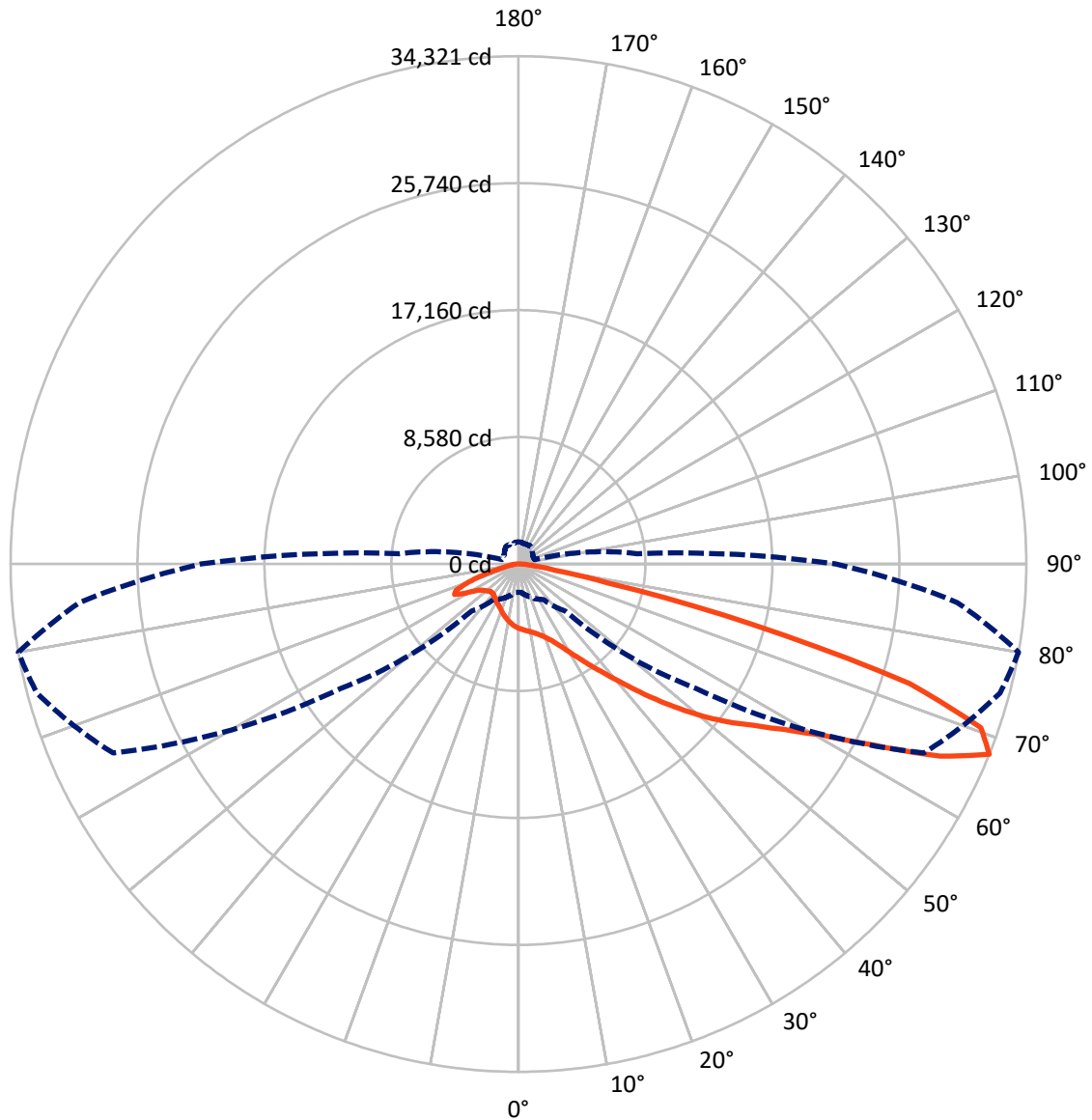


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5759.3	0.0	5759.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	25513.7	0.0	25513.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	31273.0	0.0	31273.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.8	1.3
10°-20°	1154.5	3.7
20°-30°	1911.0	6.1
30°-40°	3125.9	10.0
40°-50°	5047.1	16.1
50°-60°	7286.5	23.3
60°-70°	8041.1	25.7
70°-80°	3706.5	11.9
80°-90°	599.5	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°	31273.0	100.0
0°-180°	31273.0	100.0



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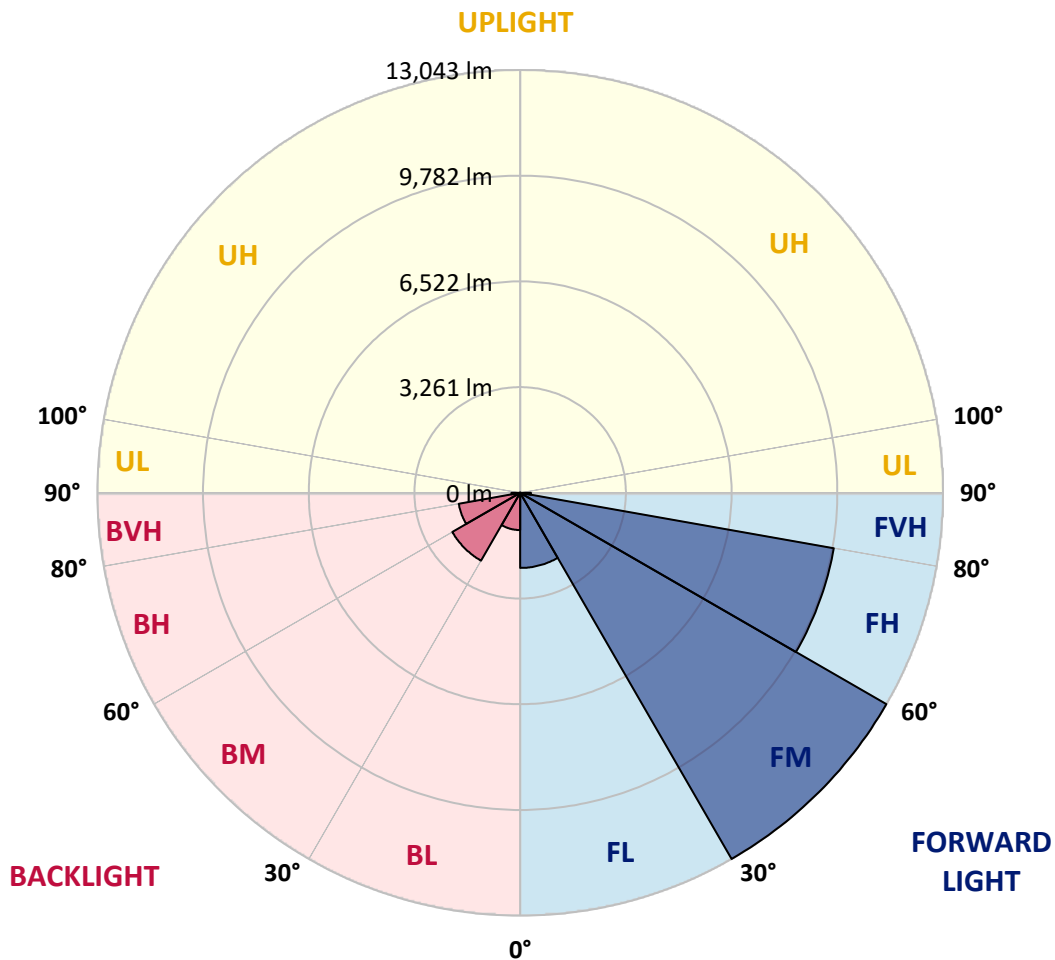
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2317.3	7.4			
FM	(30°-60°)	13043.2	41.7			
FH	(60°-80°)	9823.7	31.4			G4/12000
FVH	(80°-90°)	329.6	1.1			G3/500
BL	(0°-30°)	1149.1	3.7	B3/2500		
BM	(30°-60°)	2416.4	7.7	B2/2500		
BH	(60°-80°)	1923.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	269.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7
2.5°	4752.7	4725.0	4729.6	4721.9	4698.8	4658.8	4615.7	4537.2	4455.6	4412.5	4378.6
5°	5149.9	5142.2	5131.5	5106.8	5048.3	4965.2	4862.0	4723.5	4574.1	4495.6	4420.2
7.5°	5447.1	5442.5	5428.6	5413.2	5356.2	5256.2	5100.7	4903.6	4686.5	4578.7	4461.7
10°	5471.7	5479.4	5490.2	5531.8	5539.5	5485.6	5327.0	5088.4	4803.5	4665.0	4515.6
12.5°	5262.3	5279.3	5320.8	5427.1	5539.5	5605.7	5524.1	5282.3	4940.6	4772.7	4583.4
15°	4985.2	4994.4	5045.2	5191.5	5393.2	5598.0	5674.9	5496.3	5117.6	4911.3	4685.0
17.5°	4866.7	4871.3	4906.7	5003.7	5191.5	5484.0	5759.6	5728.8	5334.7	5083.7	4809.7
20°	4806.6	4817.4	4868.2	4963.6	5082.2	5337.8	5771.9	5979.8	5593.3	5299.3	4966.7
22.5°	4977.5	4972.9	4991.4	5039.1	5139.2	5293.1	5762.7	6238.4	5922.8	5576.4	5171.5
25°	5376.3	5393.2	5360.9	5307.0	5339.3	5447.1	5812.0	6518.6	6335.4	5932.0	5439.4
27.5°	5944.4	5927.4	5879.7	5753.5	5687.3	5733.4	5975.2	6820.4	6848.1	6400.1	5793.5
30°	6510.9	6497.1	6450.9	6296.9	6161.4	6123.0	6292.3	7166.8	7459.3	6962.0	6227.7
32.5°	7099.1	7083.7	7040.6	6886.6	6723.4	6634.1	6743.4	7567.1	8179.9	7633.3	6738.8
35°	7824.2	7795.0	7704.1	7490.1	7330.0	7260.7	7311.5	8070.5	9011.2	8427.7	7359.3
37.5°	8506.2	8550.9	8458.5	8162.9	7955.1	7930.4	7987.4	8684.8	9907.3	9316.1	8072.1
40°	9191.4	9199.1	9115.9	8874.2	8660.2	8620.2	8763.4	9430.0	10965.0	10378.4	8938.9
42.5°	9899.6	9915.0	9774.9	9551.6	9394.6	9402.3	9565.5	10303.0	12178.2	11630.1	9936.5
45°	10738.7	10761.7	10607.8	10315.3	10172.1	10460.0	10392.2	11282.1	13508.4	13052.7	11082.0
47.5°	11616.2	11651.6	11534.6	11260.6	11082.0	11477.7	11219.0	12367.5	14940.2	14578.4	12339.8
50°	12095.0	12145.8	12259.8	12239.8	12201.3	12135.1	12141.2	13531.5	16416.7	16167.3	13633.1
52.5°	11837.9	11836.4	12252.1	12757.1	13295.9	13335.9	13265.1	14758.5	17796.1	17720.7	14850.9
55°	10661.7	10741.7	11371.4	12349.1	13820.9	14740.1	14949.4	16164.2	19151.0	19238.7	16087.2
57.5°	8703.3	8769.5	9619.4	10981.9	13112.7	15574.5	17345.0	18207.2	20665.9	21075.5	17733.0
60°	5902.8	5982.9	6883.5	8520.1	11206.7	15109.6	19625.2	21853.0	22479.6	23411.0	20042.4
62.5°	3468.7	3541.1	4275.4	5374.7	7890.4	12949.5	20625.9	27039.9	25360.2	26935.2	23565.0
65°	2387.9	2437.2	2794.4	3345.5	4534.1	8721.8	19385.0	30620.9	29792.6	31301.4	27649.5
67.5°	1921.4	1915.3	2198.5	2574.2	2919.1	4497.1	14658.5	30216.0	33690.9	34320.6	29769.6
70°	1582.7	1576.5	1769.0	2080.0	2332.5	2532.6	7984.3	25498.7	32896.5	33152.0	27817.4
72.5°	1324.0	1330.2	1453.4	1684.3	1913.7	1907.6	3508.7	17937.8	25879.0	27646.5	22174.7
75°	1117.7	1120.8	1202.4	1365.6	1553.4	1536.5	1902.9	9717.9	15043.4	16273.5	12292.1
77.5°	951.5	954.5	1006.9	1097.7	1231.7	1225.5	1388.7	4198.5	6275.4	6198.4	4204.6
80°	848.3	848.3	872.9	889.9	963.8	936.1	1030.0	2016.9	2652.7	2449.5	1678.2
82.5°	665.1	668.2	819.1	812.9	759.0	723.6	723.6	1188.6	1405.6	1299.4	982.3
85°	374.1	372.6	528.1	637.4	668.2	509.6	505.0	665.1	765.2	674.3	475.7
87.5°	160.1	163.2	244.8	283.3	378.7	317.2	312.5	343.3	389.5	337.2	220.2
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°	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7
2.5°	4346.3	4306.2	4218.5	4109.2	4010.6	3946.0	3887.5	3802.8	3807.4	3748.9	3705.8
5°	4343.2	4260.1	4056.8	3815.1	3582.6	3414.8	3288.6	3174.6	3146.9	3093.0	3060.7
7.5°	4346.3	4210.8	3869.0	3482.6	3194.7	2982.2	2874.4	2814.4	2800.5	2782.0	2783.6
10°	4357.0	4166.1	3662.7	3171.6	2869.8	2729.7	2703.5	2722.0	2743.6	2749.7	2751.3
12.5°	4381.7	4126.1	3436.4	2894.4	2666.6	2623.5	2668.1	2731.2	2772.8	2792.8	2791.3
15°	4437.1	4095.3	3219.3	2677.4	2554.2	2577.3	2660.4	2749.7	2809.8	2837.5	2839.0
17.5°	4497.1	4050.7	2996.0	2511.1	2471.0	2529.6	2632.7	2737.4	2811.3	2842.1	2848.2
20°	4575.7	3995.2	2762.0	2386.4	2392.5	2458.7	2555.7	2660.4	2742.0	2768.2	2780.5
22.5°	4678.8	3935.2	2557.3	2284.8	2303.2	2354.0	2429.5	2520.3	2591.1	2603.5	2614.2
25°	4817.4	3870.5	2394.1	2192.4	2200.1	2229.3	2280.1	2334.0	2383.3	2369.4	2380.2
27.5°	5003.7	3815.1	2272.4	2107.7	2093.8	2100.0	2126.2	2143.1	2169.3	2130.8	2135.4
30°	5222.3	3755.1	2178.5	2033.8	1995.3	1984.5	1990.7	1999.9	2019.9	1967.6	1959.9
32.5°	5476.3	3682.7	2090.8	1969.1	1915.3	1893.7	1896.8	1921.4	1998.4	1966.1	1949.1
35°	5771.9	3601.1	1998.4	1898.3	1861.4	1830.6	1827.5	1904.5	2133.9	2113.9	2098.5
37.5°	6118.3	3519.5	1906.0	1818.3	1821.3	1787.5	1776.7	1864.4	2160.0	2081.5	2070.8
40°	6558.7	3476.4	1827.5	1733.6	1772.1	1767.5	1745.9	1790.5	1987.6	1844.4	1826.0
42.5°	7103.7	3482.6	1769.0	1642.7	1713.6	1762.8	1729.0	1730.5	1801.3	1693.6	1676.6
45°	7776.5	3554.9	1727.4	1570.4	1647.4	1758.2	1722.8	1698.2	1704.3	1647.4	1638.1
47.5°	8561.7	3704.3	1698.2	1510.3	1584.2	1741.3	1721.3	1688.9	1675.1	1644.3	1636.6
50°	9434.6	3921.3	1676.6	1453.4	1527.3	1713.6	1722.8	1679.7	1664.3	1652.0	1647.4
52.5°	10292.2	4169.2	1644.3	1404.1	1482.6	1679.7	1727.4	1670.5	1653.5	1644.3	1639.7
55°	11248.3	4478.7	1595.0	1362.5	1445.7	1636.6	1727.4	1656.6	1638.1	1639.7	1638.1
57.5°	12540.0	4979.0	1536.5	1327.1	1401.0	1584.2	1698.2	1641.2	1618.1	1619.7	1621.2
60°	14558.4	5861.2	1465.7	1291.7	1345.6	1522.7	1658.1	1607.3	1584.2	1590.4	1591.9
62.5°	17526.7	7156.0	1373.3	1239.4	1287.1	1456.5	1602.7	1564.2	1541.1	1556.5	1556.5
65°	20612.1	8298.4	1259.4	1173.2	1225.5	1384.1	1533.4	1510.3	1487.2	1522.7	1521.1
67.5°	21441.9	8042.8	1145.5	1100.8	1163.9	1304.0	1450.3	1438.0	1425.7	1487.2	1484.2
70°	19047.8	6457.0	1040.8	1026.9	1096.2	1217.8	1361.0	1361.0	1353.3	1399.5	1388.7
72.5°	14512.2	4578.7	940.7	948.4	1019.2	1123.9	1264.0	1274.8	1262.5	1285.6	1276.3
75°	7768.8	2620.4	840.6	862.2	923.8	1028.4	1156.2	1167.0	1159.3	1157.8	1162.4
77.5°	2581.9	1280.9	735.9	769.8	823.7	929.9	1043.8	1060.8	1042.3	1039.2	1037.7
80°	1150.1	805.2	620.5	665.1	712.8	817.5	925.3	939.2	919.1	946.8	911.4
82.5°	739.0	529.6	497.3	546.6	592.7	705.1	806.7	809.8	791.4	919.1	783.7
85°	358.7	327.9	374.1	418.8	458.8	554.3	668.2	669.7	623.5	568.1	548.1
87.5°	178.6	190.9	249.4	289.4	309.5	380.3	486.5	477.3	457.3	415.7	383.4
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)