

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: P192286

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-T3R-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39408 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 334  
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

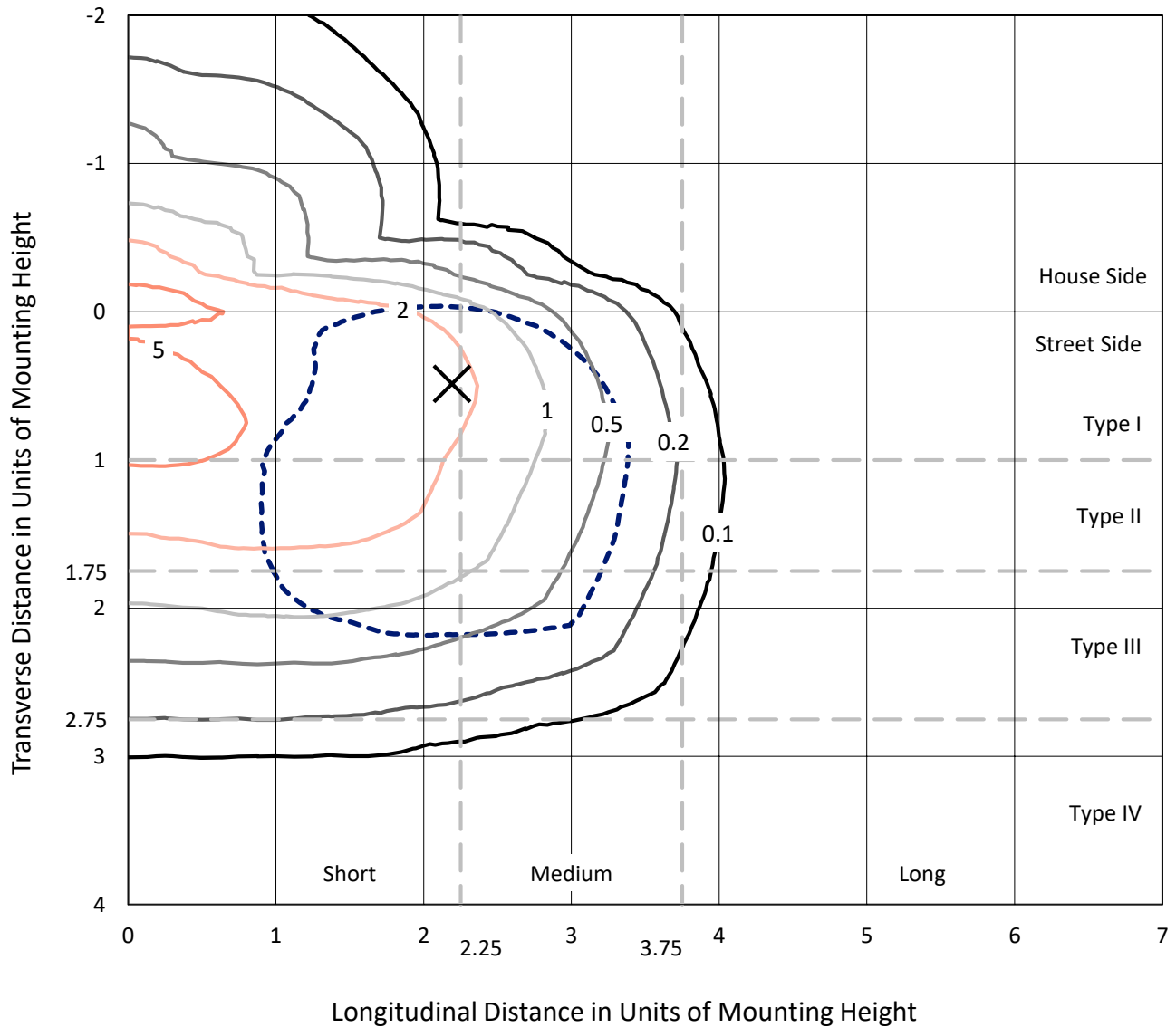


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

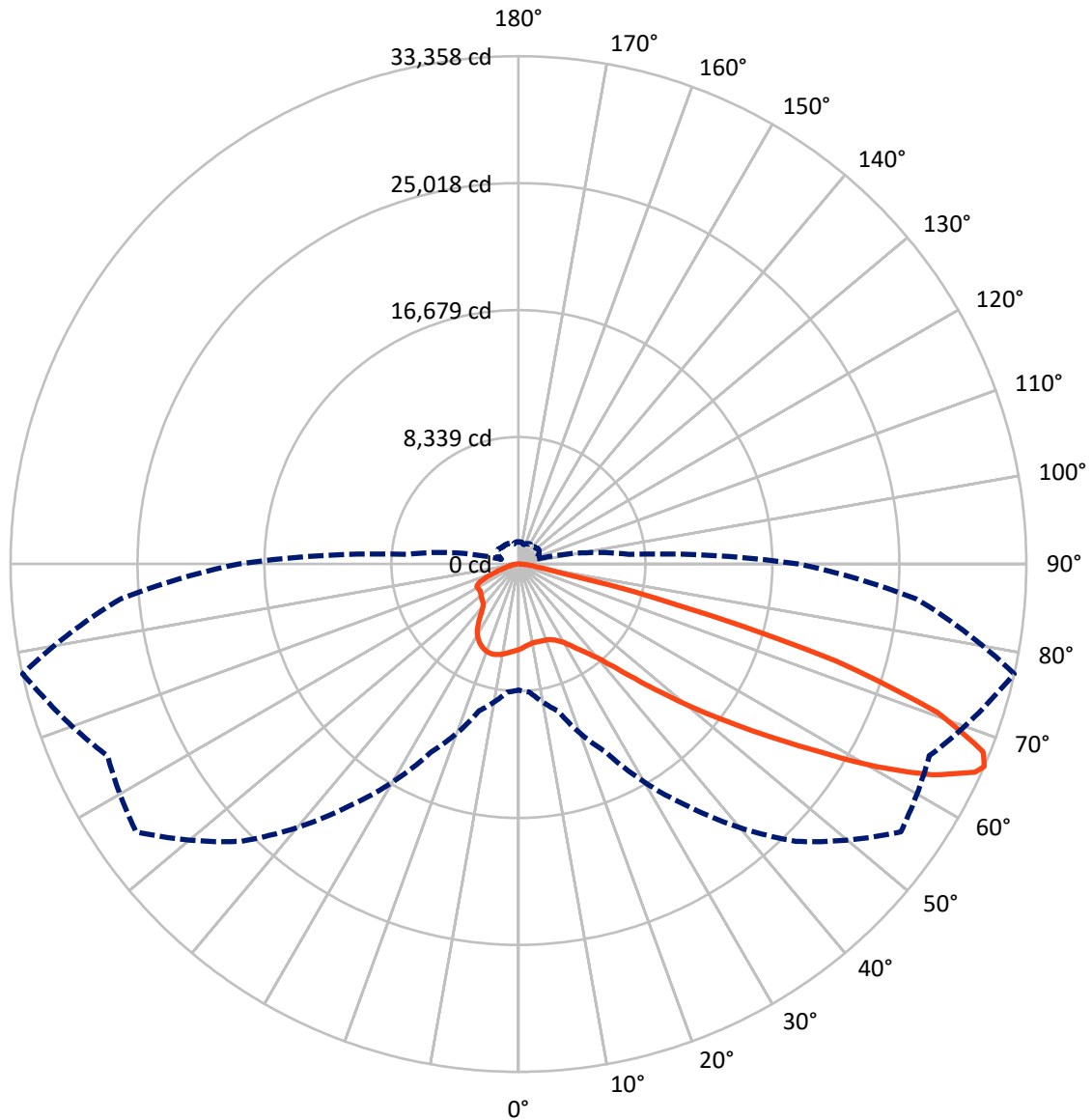


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6732.6	0.0	6732.6
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	32675.4	0.0	32675.4
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	39408.0	0.0	39408.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.7	1.3
10°-20°	1415.5	3.6
20°-30°	2415.7	6.1
30°-40°	3867.1	9.8
40°-50°	5974.3	15.2
50°-60°	8473.6	21.5
60°-70°	11335.4	28.8
70°-80°	4922.7	12.5
80°-90°	502.0	1.3
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°	39408.0	100.0
0°-180°	39408.0	100.0



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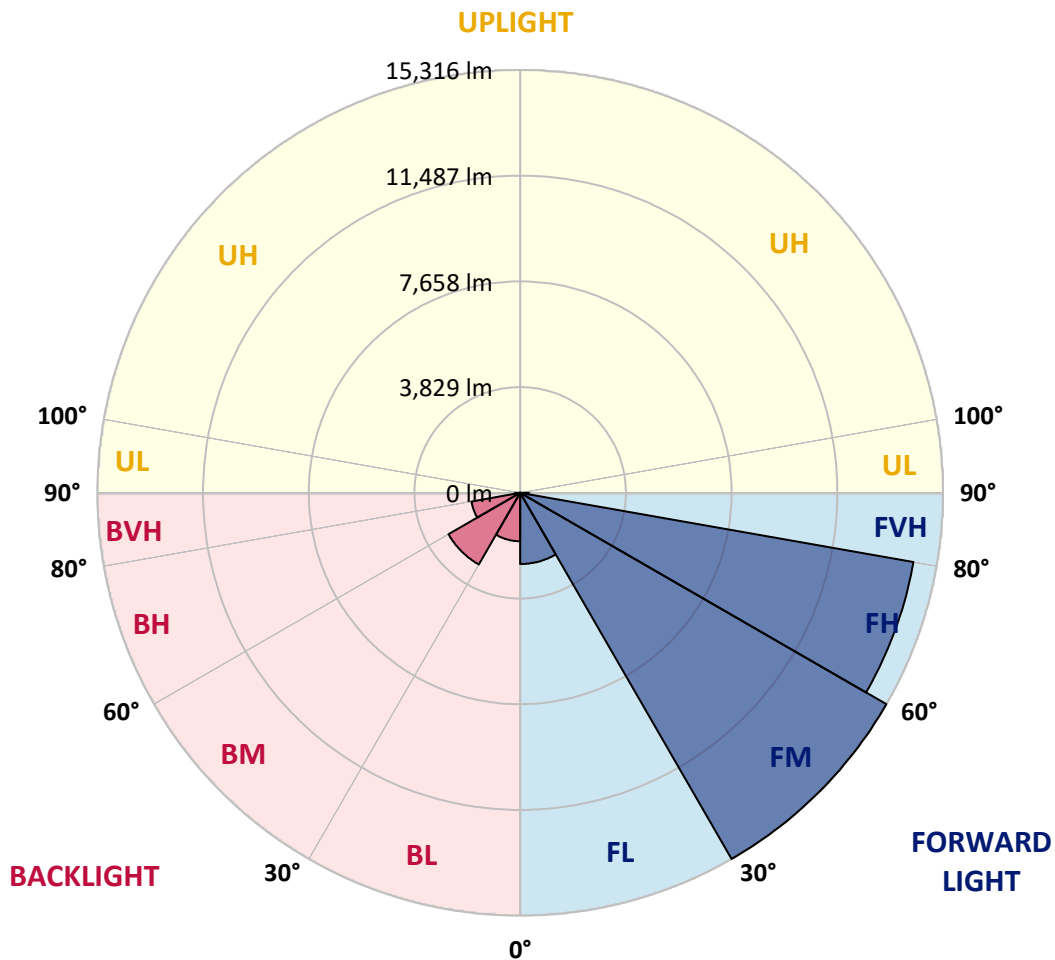
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2579.4	6.5			
FM	(30°-60°)	15316.0	38.9			
FH	(60°-80°)	14465.1	36.7			G5
FVH	(80°-90°)	314.8	0.8			G3/500
BL	(0°-30°)	1753.5	4.4	B3/2500		
BM	(30°-60°)	2999.0	7.6	B3/5000		
BH	(60°-80°)	1793.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	187.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8
2.5°	4967.8	5001.4	5029.3	5055.4	5107.5	5193.2	5291.8	5371.9	5487.3	5509.7	5571.1
5°	4511.7	4511.7	4534.0	4573.1	4643.9	4772.3	4906.4	5085.2	5336.5	5396.1	5560.0
7.5°	4290.1	4291.9	4305.0	4338.5	4399.9	4517.2	4664.3	4874.7	5215.5	5314.2	5593.5
10°	4372.0	4353.4	4325.5	4308.7	4318.0	4386.9	4526.6	4761.2	5141.0	5267.6	5668.0
12.5°	4830.1	4794.7	4697.9	4569.4	4446.5	4396.2	4478.1	4707.2	5109.4	5256.5	5766.7
15°	5578.6	5563.7	5383.1	5116.8	4818.9	4569.4	4513.5	4686.7	5113.1	5269.5	5884.0
17.5°	6517.0	6496.6	6258.2	5870.9	5384.9	4899.0	4638.3	4703.4	5126.1	5291.8	5997.5
20°	7464.8	7401.5	7144.5	6682.8	6059.0	5347.7	4845.0	4746.3	5142.9	5316.0	6116.7
22.5°	8172.4	8120.2	7889.3	7440.6	6721.9	5867.2	5122.4	4820.7	5196.9	5386.8	6263.8
25°	8794.3	8798.0	8569.0	8135.1	7392.2	6418.4	5479.9	5020.0	5334.7	5532.0	6464.9
27.5°	9563.3	9518.6	9304.5	8874.3	8055.1	6975.1	5911.9	5293.7	5539.5	5738.7	6729.3
30°	10483.1	10451.5	10203.8	9716.0	8790.6	7572.8	6405.3	5612.1	5803.9	6010.6	7075.6
32.5°	11565.0	11550.1	11293.1	10665.6	9639.6	8276.6	6984.4	6032.9	6198.6	6412.8	7572.8
35°	12834.8	12836.7	12533.2	11779.1	10568.8	9095.9	7641.7	6574.8	6679.0	6902.5	8164.9
37.5°	13616.9	13711.9	13598.3	12829.3	11620.8	10012.0	8494.5	7293.5	7226.5	7451.8	8799.9
40°	13784.5	13899.9	14259.3	13868.3	12797.6	11021.2	9250.5	7984.3	7900.5	8176.1	9617.3
42.5°	13549.9	13710.0	14469.7	14745.3	14047.0	12265.1	10267.1	9010.3	8904.1	9274.7	10633.9
45°	13410.2	13529.4	14408.2	15201.5	15130.7	13670.9	11561.2	10298.8	10259.7	10745.7	11807.0
47.5°	13168.1	13276.1	14121.5	15307.6	15767.5	14959.4	13116.0	11874.0	11950.4	12587.2	13130.9
50°	13298.5	13343.2	13801.2	15037.6	15951.9	15903.4	14853.3	13698.8	13959.5	14754.6	14629.8
52.5°	13279.9	13395.3	13764.0	14594.4	15976.1	16486.3	16564.5	15734.0	16283.3	17195.7	16292.6
55°	10736.4	10948.6	13326.4	14482.7	16061.7	17057.9	18087.6	17879.0	18903.1	19966.4	18169.5
57.5°	10252.2	10386.3	11704.6	14717.3	16516.0	18149.0	19782.0	20240.1	21953.1	23187.6	20456.1
60°	10157.3	10323.0	11687.8	15004.1	17437.7	19927.2	22293.9	23098.3	25664.1	27015.9	23107.6
62.5°	9861.2	10040.0	11578.0	14966.9	18746.7	22387.0	25509.6	26137.1	29183.3	30497.9	25325.2
65°	8922.8	9090.3	10682.4	14365.4	19629.3	25012.4	29315.5	28922.6	31961.4	32950.2	26431.3
66°	8280.4	8444.2	9976.7	13657.9	19424.5	25757.2	30663.6	29784.7	32583.3	33357.9	26215.3
67.5°	7105.4	7233.9	8606.2	12073.3	18335.2	25965.8	31797.6	30432.7	32648.5	32922.2	24980.7
70°	4489.3	4526.6	5593.5	8334.4	13879.4	22519.2	30071.5	28823.9	29956.0	29215.0	20942.0
72.5°	1947.7	1934.6	2685.0	4239.8	7857.7	15110.2	24325.3	23783.5	23498.6	21807.9	14659.6
75°	1083.7	1098.6	1394.6	1968.1	3193.4	7422.0	15912.8	15227.5	12857.2	10971.0	6647.4
77.5°	869.6	890.0	1156.3	1396.5	1433.7	2588.2	7446.2	6059.0	3647.7	2927.1	1847.1
80°	687.1	724.3	1009.2	1087.4	966.4	1066.9	2405.7	1923.5	1443.1	1323.9	957.1
82.5°	543.7	569.8	865.8	823.0	675.9	718.7	1152.6	1122.8	938.5	854.7	553.0
85°	391.0	439.4	711.3	620.0	443.2	484.1	765.3	733.6	538.1	439.4	243.9
87.5°	160.1	208.5	502.7	411.5	247.6	225.3	381.7	359.4	255.1	186.2	121.0
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°	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8
2.5°	5610.2	5654.9	5712.7	5748.0	5766.7	5779.7	5800.2	5798.3	5803.9	5805.8	5813.2
5°	5647.5	5722.0	5805.8	5828.1	5828.1	5807.6	5787.1	5753.6	5740.6	5736.9	5740.6
7.5°	5744.3	5826.2	5898.9	5872.8	5816.9	5735.0	5628.9	5535.8	5485.5	5468.7	5465.0
10°	5867.2	5965.9	5995.7	5897.0	5733.1	5535.8	5325.4	5172.7	5085.2	5060.9	5053.5
12.5°	6016.2	6109.3	6068.3	5859.8	5556.2	5237.8	4947.4	4703.4	4521.0	4463.2	4459.5
15°	6180.0	6252.6	6109.3	5744.3	5291.8	4822.6	4305.0	3884.2	3657.0	3584.4	3578.8
17.5°	6332.7	6369.9	6085.1	5543.2	4902.7	4143.0	3455.9	3131.9	3053.7	3072.3	3076.0
20°	6463.0	6463.0	6003.1	5254.6	4290.1	3247.3	2813.5	2807.9	2863.8	2919.6	2930.8
22.5°	6606.4	6520.8	5859.8	4846.8	3422.4	2657.1	2593.8	2645.9	2709.2	2770.7	2780.0
25°	6783.3	6567.3	5660.5	4228.6	2690.6	2413.2	2437.4	2480.2	2511.9	2551.0	2556.5
27.5°	6980.7	6626.9	5398.0	3377.7	2335.0	2260.5	2279.1	2294.0	2290.3	2305.2	2308.9
30°	7217.2	6695.8	5038.6	2640.3	2187.9	2130.1	2096.6	2083.6	2083.6	2107.8	2117.1
32.5°	7533.7	6798.2	4522.8	2262.3	2117.1	2037.0	1929.0	1880.6	1899.3	1981.2	1999.8
35°	7881.9	6908.1	3824.6	2133.9	2102.2	1994.2	1826.6	1737.3	1739.1	1815.5	1839.7
37.5°	8261.7	7047.7	3059.3	2109.7	2135.7	1996.1	1772.6	1649.7	1599.5	1599.5	1608.8
40°	8747.7	7191.1	2476.5	2126.4	2206.5	2018.4	1744.7	1580.8	1439.3	1443.1	1450.5
42.5°	9380.8	7314.0	2163.7	2161.8	2292.1	2048.2	1742.8	1489.6	1366.7	1450.5	1526.8
45°	10084.7	7375.4	2025.9	2193.4	2361.0	2066.8	1713.1	1474.7	1376.0	1625.5	1770.8
47.5°	10894.6	7340.1	1949.5	2204.6	2377.8	2066.8	1679.5	1510.1	1441.2	1882.5	2051.9
50°	11782.8	7237.6	1875.0	2182.3	2372.2	2063.1	1711.2	1545.5	1465.4	1927.2	2044.5
52.5°	12827.4	7152.0	1796.8	2133.9	2333.1	2042.6	1748.4	1530.6	1389.1	1752.2	1834.1
55°	14019.1	7176.2	1709.3	2065.0	2271.7	2003.5	1735.4	1471.0	1309.0	1543.6	1593.9
57.5°	15542.2	7464.8	1605.1	1977.5	2187.9	1938.4	1688.8	1443.1	1284.8	1400.2	1430.0
60°	17242.2	7967.5	1474.7	1889.9	2083.6	1834.1	1653.5	1456.1	1296.0	1389.1	1404.0
62.5°	18489.8	8259.9	1363.0	1761.5	1942.1	1718.6	1608.8	1472.9	1325.8	1428.2	1424.4
65°	18828.7	7779.5	1223.3	1573.4	1750.3	1597.6	1552.9	1491.5	1338.8	1459.8	1443.1
66°	18353.8	7261.8	1161.9	1485.9	1653.5	1538.0	1525.0	1489.6	1333.2	1463.5	1435.6
67.5°	17201.3	6200.5	1055.8	1357.4	1498.9	1448.6	1480.3	1472.9	1318.3	1459.8	1420.7
70°	14028.4	4230.5	903.1	1130.2	1247.5	1275.5	1394.6	1413.3	1269.9	1394.6	1309.0
72.5°	9801.6	2577.0	798.8	877.0	1009.2	1087.4	1277.3	1331.3	1204.7	1217.8	1135.8
75°	4737.0	1368.6	724.3	679.6	783.9	908.7	1135.8	1219.6	1102.3	1018.5	988.7
77.5°	1476.6	836.0	614.5	547.4	614.5	733.6	949.6	1068.8	981.3	852.8	841.6
80°	793.2	614.5	473.0	439.4	486.0	575.4	746.7	891.9	843.5	765.3	683.4
82.5°	523.2	398.5	350.1	340.7	370.5	439.4	554.9	739.2	739.2	655.4	476.7
85°	270.0	243.9	240.2	240.2	258.8	292.3	378.0	569.8	607.0	346.3	286.7
87.5°	134.1	139.7	130.3	135.9	145.2	143.4	180.6	286.7	342.6	210.4	175.0
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)