

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: P193916

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193916  
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-08-LED-E1-T2-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38200 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 445  
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

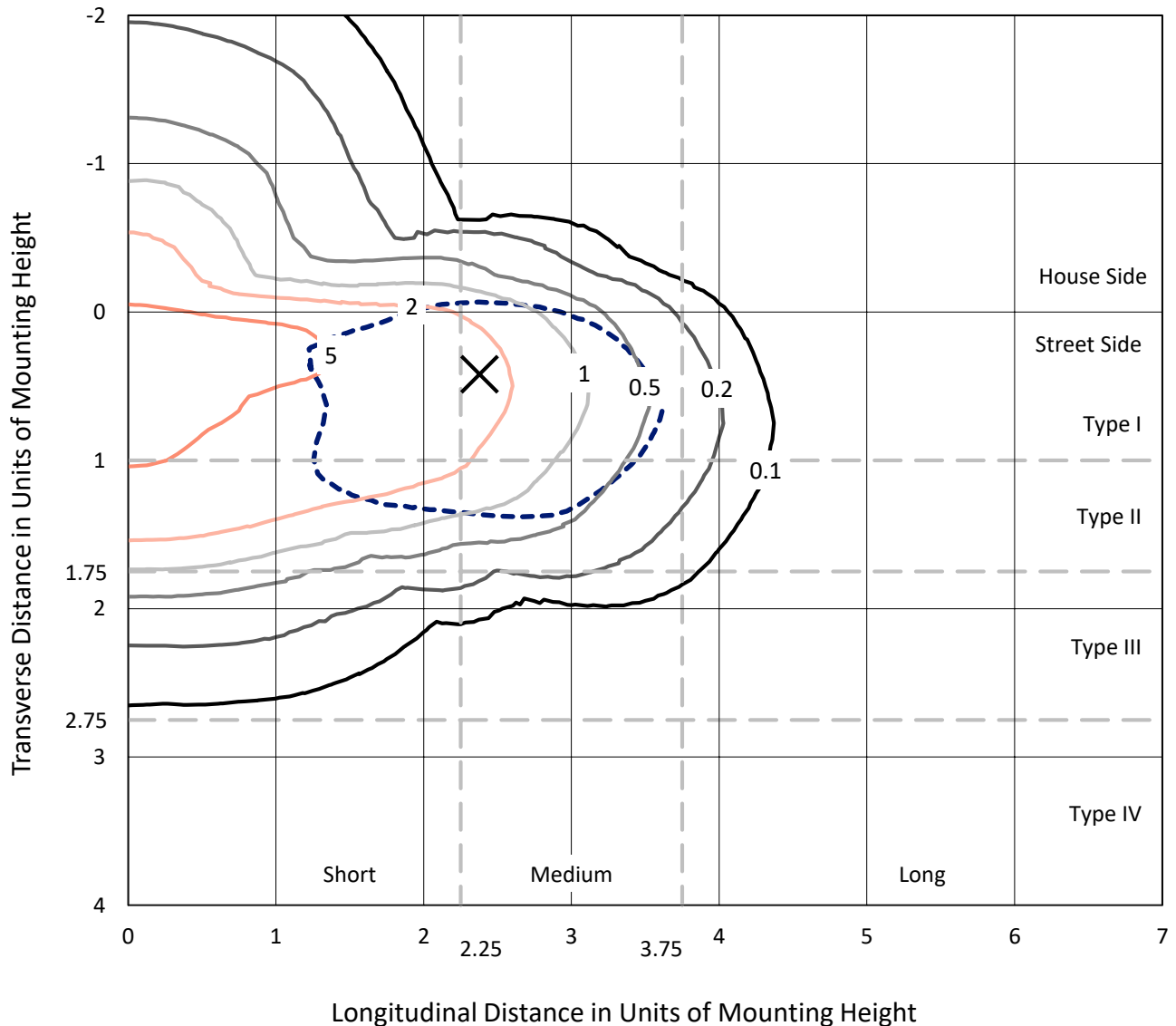


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

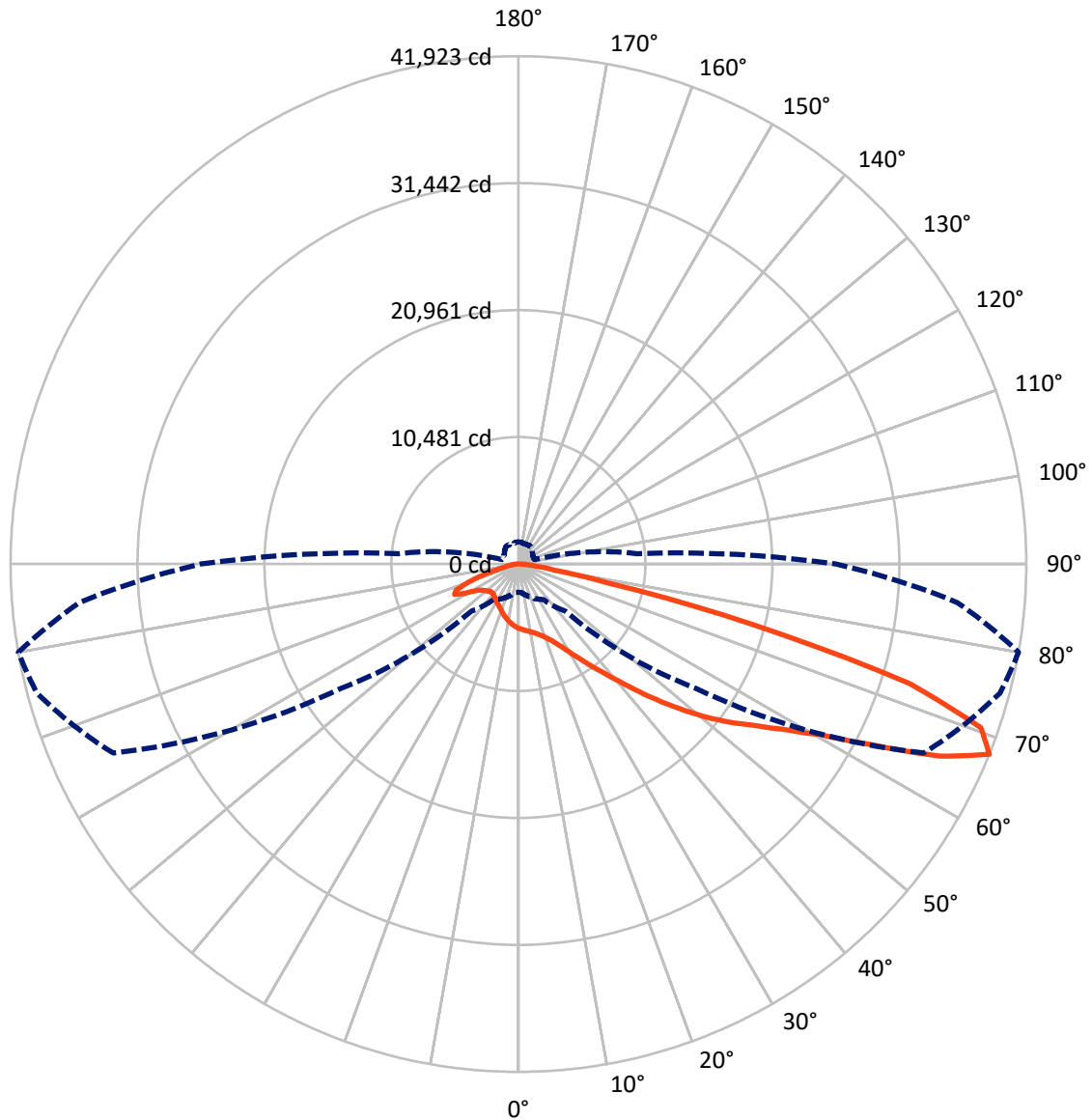


Based on 30 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Medium - Full Cutoff

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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
<b>House Side</b>	Lumens	7035.0	0.0	7035.0
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	31165.0	0.0	31165.0
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	38200.0	0.0	38200.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.6	1.3
10°-20°	1410.3	3.7
20°-30°	2334.3	6.1
30°-40°	3818.3	10.0
40°-50°	6165.0	16.1
50°-60°	8900.5	23.3
60°-70°	9822.3	25.7
70°-80°	4527.4	11.9
80°-90°	732.3	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°	38200.0	100.0
0°-180°	38200.0	100.0



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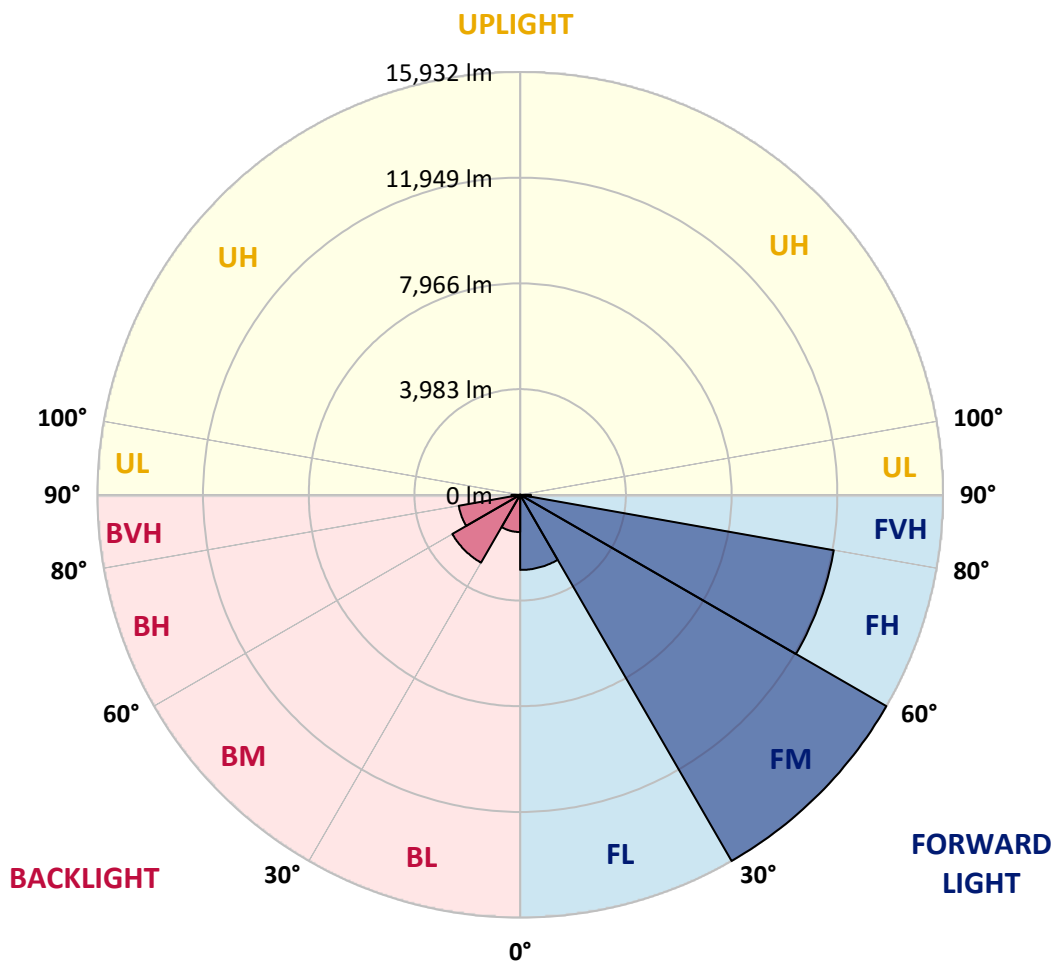
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2830.5	7.4			
FM	(30°-60°)	15932.3	41.7			
FH	(60°-80°)	11999.6	31.4			G4/12000
FVH	(80°-90°)	402.6	1.1			G3/500
BL	(0°-30°)	1403.6	3.7	B3/2500		
BM	(30°-60°)	2951.6	7.7	B3/5000		
BH	(60°-80°)	2350.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	329.7	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°	5307.1	5307.1	5307.1	5307.1	5307.1	5307.1	5307.1	5307.1	5307.1	5307.1	5307.1
2.5°	5805.5	5771.6	5777.2	5767.8	5739.6	5690.7	5638.1	5542.2	5442.5	5389.8	5348.5
5°	6290.7	6281.2	6268.1	6238.0	6166.5	6065.0	5939.0	5769.7	5587.3	5491.4	5399.2
7.5°	6653.6	6648.0	6631.0	6612.2	6542.7	6420.4	6230.5	5989.8	5724.6	5592.9	5450.0
10°	6683.7	6693.1	6706.3	6757.0	6766.4	6700.6	6506.9	6215.4	5867.5	5698.3	5515.8
12.5°	6427.9	6448.6	6499.4	6629.2	6766.4	6847.3	6747.6	6452.4	6034.9	5829.9	5598.6
15°	6089.4	6100.7	6162.8	6341.4	6587.8	6837.9	6931.9	6713.8	6251.2	5999.2	5722.7
17.5°	5944.6	5950.3	5993.5	6112.0	6341.4	6698.7	7035.4	6997.8	6516.3	6209.8	5875.0
20°	5871.3	5884.4	5946.5	6063.1	6207.9	6520.1	7050.4	7304.3	6832.3	6473.1	6066.9
22.5°	6080.0	6074.4	6096.9	6155.2	6277.5	6465.5	7039.1	7620.2	7234.7	6811.6	6317.0
25°	6567.1	6587.8	6548.3	6482.5	6522.0	6653.6	7099.3	7962.5	7738.7	7246.0	6644.2
27.5°	7261.0	7240.4	7182.1	7027.9	6947.0	7003.4	7298.7	8331.1	8365.0	7817.7	7076.7
30°	7953.1	7936.2	7879.8	7691.7	7526.2	7479.2	7686.1	8754.3	9111.6	8504.1	7607.1
32.5°	8671.5	8652.7	8600.0	8412.0	8212.6	8103.6	8237.1	9243.2	9991.7	9324.1	8231.4
35°	9557.3	9521.5	9410.6	9149.2	8953.6	8869.0	8931.0	9858.2	11007.2	10294.5	8989.3
37.5°	10390.4	10444.9	10332.1	9971.0	9717.1	9687.0	9756.6	10608.5	12101.7	11379.6	9860.1
40°	11227.3	11236.7	11135.1	10839.9	10578.5	10529.6	10704.5	11518.8	13393.7	12677.2	10918.8
42.5°	12092.3	12111.2	11940.0	11667.3	11475.5	11484.9	11684.3	12585.1	14875.7	14206.2	12137.5
45°	13117.3	13145.5	12957.4	12600.1	12425.2	12776.9	12694.1	13781.1	16500.5	15943.8	13536.7
47.5°	14189.2	14232.5	14089.6	13754.8	13536.7	14020.0	13704.0	15107.0	18249.5	17807.5	15073.1
50°	14774.1	14836.2	14975.3	14950.9	14903.9	14823.0	14830.5	16528.7	20053.0	19748.3	16652.8
52.5°	14460.0	14458.2	14965.9	15582.8	16241.0	16289.9	16203.4	18027.6	21738.0	21645.9	18140.4
55°	13023.2	13121.0	13890.2	15084.4	16882.3	18005.0	18260.8	19744.6	23393.0	23500.1	19650.5
57.5°	10631.1	10712.0	11750.1	13414.4	16017.2	19024.3	21187.0	22240.1	25243.5	25743.7	21660.9
60°	7210.3	7308.1	8408.2	10407.3	13689.0	18456.3	23972.2	26693.4	27458.8	28596.6	24481.8
62.5°	4237.0	4325.4	5222.5	6565.2	9638.1	15817.8	25194.6	33029.2	30977.5	32901.3	28784.7
65°	2916.8	2977.0	3413.3	4086.6	5538.4	10653.7	23678.8	37403.5	36391.8	38234.8	33773.9
67.5°	2347.0	2339.5	2685.5	3144.4	3565.6	5493.3	17905.3	36908.9	41153.5	41922.6	36363.5
70°	1933.3	1925.7	2160.8	2540.7	2849.1	3093.6	9752.9	31146.7	40183.1	40495.2	33978.9
72.5°	1617.3	1624.8	1775.3	2057.4	2337.6	2330.1	4285.9	21911.0	31611.2	33770.2	27086.5
75°	1365.3	1369.1	1468.8	1668.1	1897.5	1876.9	2324.4	11870.4	18375.5	19878.1	15014.8
77.5°	1162.2	1166.0	1229.9	1340.9	1504.5	1497.0	1696.3	5128.4	7665.4	7571.3	5136.0
80°	1036.2	1036.2	1066.3	1087.0	1177.3	1143.4	1258.1	2463.6	3240.3	2992.1	2049.9
82.5°	812.4	816.2	1000.5	993.0	927.1	883.9	883.9	1451.8	1717.0	1587.2	1199.8
85°	457.0	455.1	645.1	778.6	816.2	622.5	616.8	812.4	934.7	823.7	581.1
87.5°	195.6	199.3	299.0	346.0	462.6	387.4	381.8	419.4	475.8	411.9	268.9
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°	5307.1	5307.1	5307.1	5307.1	5307.1	5307.1	5307.1	5307.1	5307.1	5307.1	5307.1
2.5°	5309.0	5260.1	5152.9	5019.4	4899.0	4820.0	4748.5	4645.1	4650.8	4579.3	4526.6
5°	5305.2	5203.7	4955.4	4660.2	4376.2	4171.2	4017.0	3877.8	3844.0	3778.2	3738.7
7.5°	5309.0	5143.5	4726.0	4253.9	3902.3	3642.7	3511.1	3437.8	3420.8	3398.3	3400.1
10°	5322.1	5088.9	4474.0	3874.1	3505.5	3334.3	3302.4	3324.9	3351.3	3358.8	3360.7
12.5°	5352.2	5040.0	4197.5	3535.6	3257.2	3204.6	3259.1	3336.2	3387.0	3411.4	3409.6
15°	5419.9	5002.4	3932.4	3270.4	3119.9	3148.1	3249.7	3358.8	3432.1	3466.0	3467.9
17.5°	5493.3	4947.9	3659.7	3067.3	3018.4	3089.8	3215.8	3343.7	3434.0	3471.6	3479.1
20°	5589.2	4880.2	3373.8	2915.0	2922.5	3003.3	3121.8	3249.7	3349.4	3381.3	3396.4
22.5°	5715.2	4806.8	3123.7	2790.8	2813.4	2875.5	2967.6	3078.6	3165.1	3180.1	3193.3
25°	5884.4	4727.9	2924.4	2678.0	2687.4	2723.1	2785.2	2851.0	2911.2	2894.3	2907.4
27.5°	6112.0	4660.2	2775.8	2574.6	2557.6	2565.2	2597.1	2617.8	2649.8	2602.8	2608.4
30°	6379.0	4586.8	2661.1	2484.3	2437.3	2424.1	2431.6	2442.9	2467.4	2403.4	2394.0
32.5°	6689.3	4498.4	2553.9	2405.3	2339.5	2313.2	2316.9	2347.0	2441.0	2401.5	2380.9
35°	7050.4	4398.8	2441.0	2318.8	2273.7	2236.0	2232.3	2326.3	2606.5	2582.1	2563.3
37.5°	7473.6	4299.1	2328.2	2221.0	2224.8	2183.4	2170.2	2277.4	2638.5	2542.6	2529.4
40°	8011.4	4246.4	2232.3	2117.6	2164.6	2158.9	2132.6	2187.2	2427.9	2253.0	2230.4
42.5°	8677.2	4253.9	2160.8	2006.6	2093.1	2153.3	2111.9	2113.8	2200.3	2068.7	2048.0
45°	9499.0	4342.3	2110.0	1918.2	2012.3	2147.7	2104.4	2074.3	2081.8	2012.3	2001.0
47.5°	10458.1	4524.8	2074.3	1844.9	1935.2	2127.0	2102.5	2063.0	2046.1	2008.5	1999.1
50°	11524.4	4789.9	2048.0	1775.3	1865.6	2093.1	2104.4	2051.7	2032.9	2017.9	2012.3
52.5°	12571.9	5092.7	2008.5	1715.1	1811.0	2051.7	2110.0	2040.5	2019.8	2008.5	2002.9
55°	13739.8	5470.7	1948.3	1664.3	1765.9	1999.1	2110.0	2023.5	2001.0	2002.9	2001.0
57.5°	15317.6	6081.9	1876.9	1621.1	1711.4	1935.2	2074.3	2004.7	1976.5	1978.4	1980.3
60°	17783.1	7159.5	1790.3	1577.8	1643.7	1859.9	2025.4	1963.4	1935.2	1942.7	1944.6
62.5°	21408.9	8741.1	1677.5	1513.9	1572.2	1779.1	1957.7	1910.7	1882.5	1901.3	1901.3
65°	25177.7	10136.5	1538.3	1433.0	1497.0	1690.7	1873.1	1844.9	1816.7	1859.9	1858.0
67.5°	26191.3	9824.3	1399.2	1344.6	1421.7	1592.9	1771.5	1756.5	1741.4	1816.7	1812.9
70°	23266.9	7887.3	1271.3	1254.4	1339.0	1487.6	1662.5	1662.5	1653.1	1709.5	1696.3
72.5°	17726.7	5592.9	1149.1	1158.5	1245.0	1372.8	1544.0	1557.1	1542.1	1570.3	1559.0
75°	9489.6	3200.8	1026.8	1053.1	1128.4	1256.2	1412.3	1425.5	1416.1	1414.2	1419.9
77.5°	3153.8	1564.7	898.9	940.3	1006.1	1135.9	1275.1	1295.7	1273.2	1269.4	1267.5
80°	1404.8	983.6	757.9	812.4	870.7	998.6	1130.2	1147.2	1122.7	1156.6	1113.3
82.5°	902.7	646.9	607.4	667.6	724.0	861.3	985.4	989.2	966.6	1122.7	957.2
85°	438.2	400.6	457.0	511.5	560.4	677.0	816.2	818.1	761.6	693.9	669.5
87.5°	218.2	233.2	304.7	353.6	378.0	464.5	594.3	583.0	558.5	507.8	468.3
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)