

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: P193925

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193925  
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-07-LED-E1-T2-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 36984 lumens  
Efficiency: N/A  
Efficacy: 82.6 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

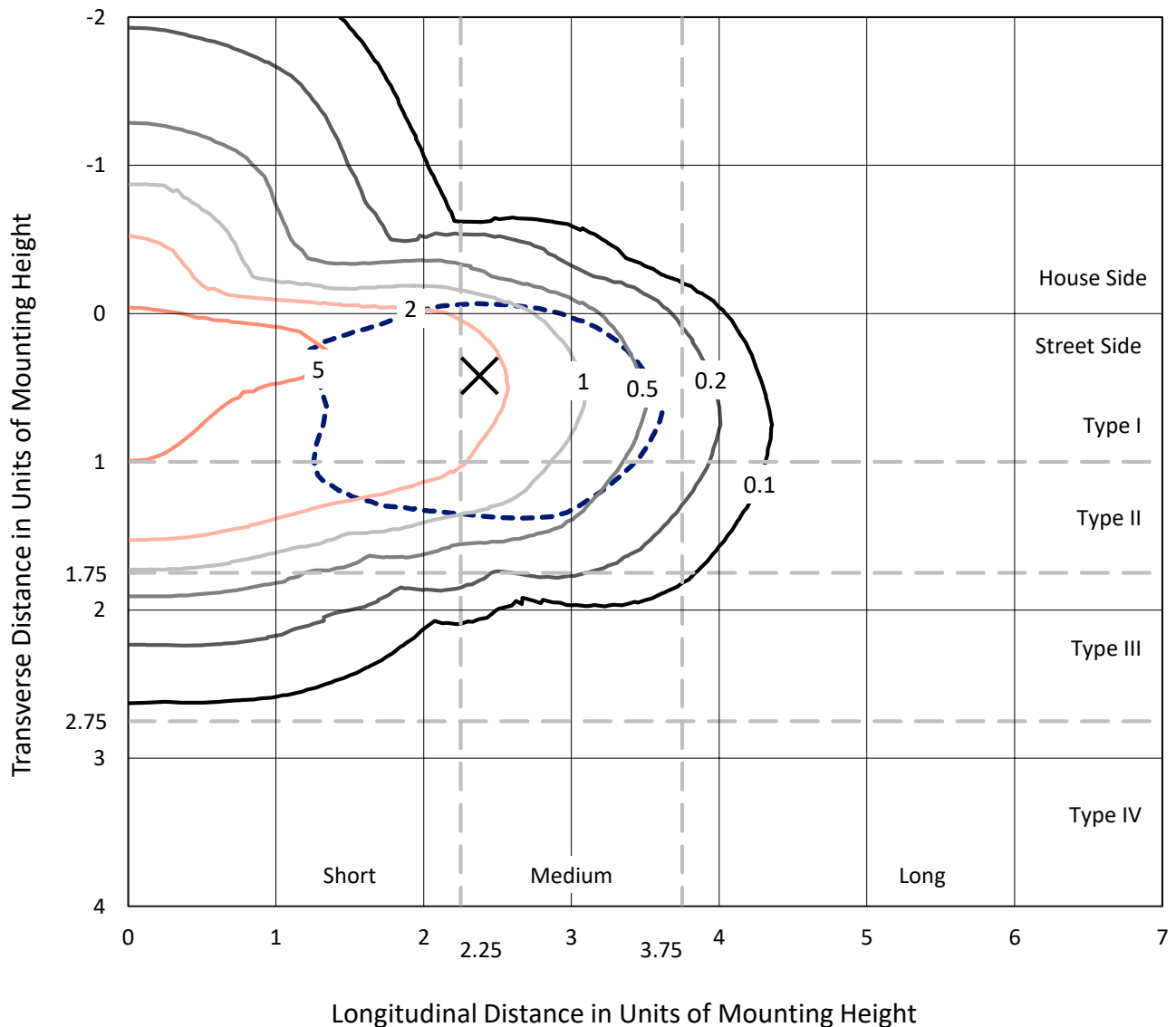
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

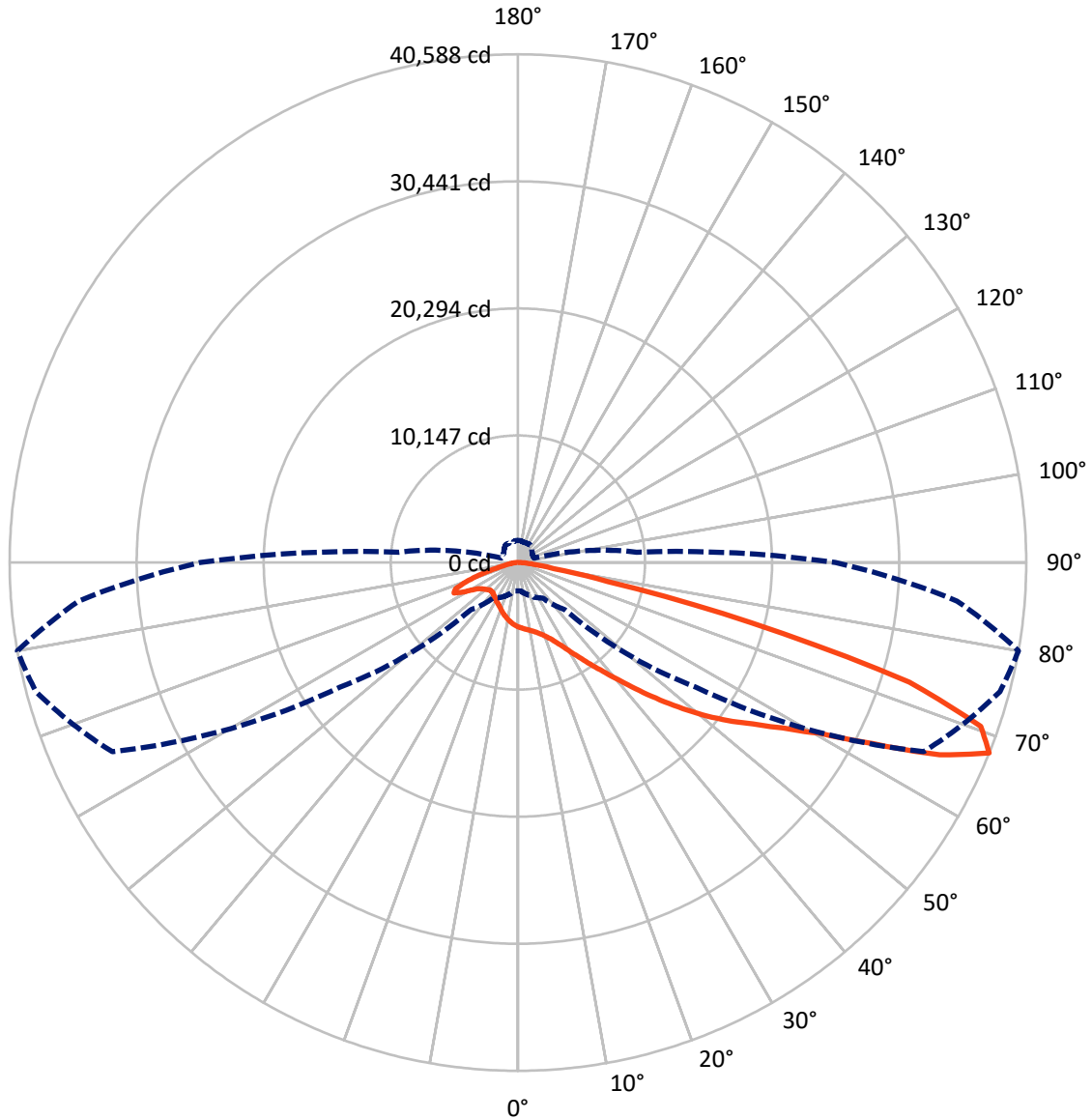
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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
<b>House Side</b>	Lumens	6811.0	0.0	6811.0
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	30172.9	0.0	30172.9
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	36984.0	0.0	36984.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.0	1.3
10°-20°	1365.4	3.7
20°-30°	2260.0	6.1
30°-40°	3696.8	10.0
40°-50°	5968.8	16.1
50°-60°	8617.2	23.3
60°-70°	9509.6	25.7
70°-80°	4383.3	11.9
80°-90°	709.0	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°	36984.0	100.0
0°-180°	36984.0	100.0

**Coefficient of Utilization**



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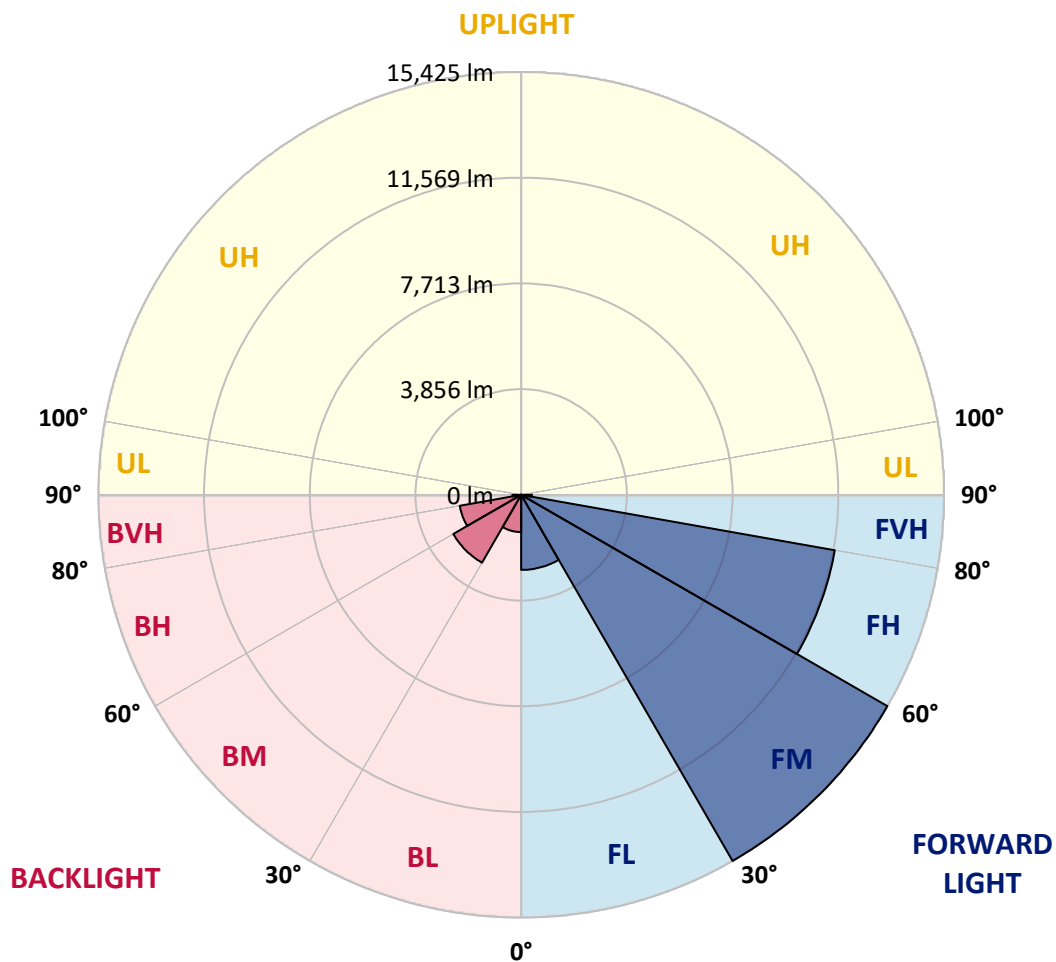
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2740.4	7.4			
FM (30°-60°)	15425.1	41.7			
FH (60°-80°)	11617.6	31.4			G4/12000
FVH (80°-90°)	389.8	1.1			G3/500
BL (0°-30°)	1358.9	3.7	B3/2500		
BM (30°-60°)	2857.7	7.7	B3/5000		
BH (60°-80°)	2275.3	6.2	B3/2500		G3/2500
BVH (80°-90°)	319.2	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°	5138.2	5138.2	5138.2	5138.2	5138.2	5138.2	5138.2	5138.2	5138.2	5138.2	5138.2
2.5°	5620.7	5587.9	5593.3	5584.2	5556.9	5509.6	5458.6	5365.7	5269.2	5218.3	5178.2
5°	6090.4	6081.3	6068.6	6039.4	5970.2	5871.9	5749.9	5586.1	5409.4	5316.6	5227.4
7.5°	6441.8	6436.3	6420.0	6401.8	6334.4	6216.0	6032.1	5799.1	5542.4	5414.9	5276.5
10°	6470.9	6480.0	6492.8	6542.0	6551.1	6487.3	6299.8	6017.6	5680.7	5516.9	5340.3
12.5°	6223.3	6243.3	6292.5	6418.1	6551.1	6629.3	6532.8	6247.0	5842.8	5644.3	5420.4
15°	5895.6	5906.5	5966.6	6139.6	6378.1	6620.2	6711.3	6500.1	6052.2	5808.2	5540.5
17.5°	5755.4	5760.8	5802.7	5917.4	6139.6	6485.5	6811.4	6775.0	6308.9	6012.1	5688.0
20°	5684.4	5697.1	5757.2	5870.1	6010.3	6312.5	6826.0	7071.8	6614.8	6267.0	5873.7
22.5°	5886.5	5881.0	5902.9	5959.3	6077.7	6259.7	6815.1	7377.7	7004.4	6594.8	6115.9
25°	6358.1	6378.1	6339.8	6276.1	6314.4	6441.8	6873.3	7709.1	7492.4	7015.3	6432.7
27.5°	7029.9	7009.9	6953.4	6804.1	6725.8	6780.5	7066.3	8065.9	8098.7	7568.9	6851.5
30°	7699.9	7683.6	7628.9	7446.9	7286.6	7241.1	7441.4	8475.6	8821.5	8233.4	7364.9
32.5°	8395.5	8377.3	8326.3	8144.2	7951.2	7845.6	7974.9	8949.0	9673.6	9027.3	7969.4
35°	9253.0	9218.5	9111.0	8857.9	8668.6	8586.7	8646.7	9544.4	10656.8	9966.8	8703.2
37.5°	10059.6	10112.4	10003.2	9653.6	9407.8	9378.7	9446.0	10270.8	11716.5	11017.4	9546.2
40°	10869.9	10879.0	10780.7	10494.8	10241.7	10194.4	10363.7	11152.1	12967.4	12273.7	10571.3
42.5°	11707.4	11725.6	11559.9	11295.9	11110.2	11119.3	11312.3	12184.5	14402.1	13753.9	11751.1
45°	12699.7	12727.0	12545.0	12199.0	12029.7	12370.2	12290.1	13342.4	15975.3	15436.3	13105.8
47.5°	13737.6	13779.4	13641.1	13317.0	13105.8	13573.7	13267.8	14626.1	17668.5	17240.7	14593.3
50°	14303.8	14363.9	14498.6	14475.0	14429.4	14351.1	14358.4	16002.6	19414.6	19119.7	16122.7
52.5°	13999.7	13997.9	14489.5	15086.7	15724.0	15771.3	15687.6	17453.7	21046.0	20956.8	17562.9
55°	12608.7	12703.4	13448.1	14604.2	16344.9	17431.8	17679.5	19116.0	22648.3	22752.1	19025.0
57.5°	10292.7	10371.0	11376.0	12987.4	15507.3	18418.7	20512.6	21532.2	24439.9	24924.2	20971.4
60°	6980.8	7075.4	8140.6	10076.0	13253.2	17868.8	23209.1	25843.7	26584.8	27686.3	23702.5
62.5°	4102.1	4187.7	5056.2	6356.2	9331.3	15314.3	24392.6	31977.8	29991.4	31854.0	27868.4
65°	2824.0	2882.2	3304.7	3956.5	5362.1	10314.5	22925.0	36212.9	35233.3	37017.6	32698.8
67.5°	2272.3	2265.0	2600.0	3044.3	3452.1	5318.4	17335.3	35734.0	39843.4	40588.1	35206.0
70°	1871.7	1864.4	2092.0	2459.8	2758.4	2995.1	9442.4	30155.2	38903.9	39206.2	32897.3
72.5°	1565.8	1573.1	1718.8	1991.9	2263.2	2255.9	4149.5	21213.5	30605.0	32695.2	26224.2
75°	1321.9	1325.5	1422.0	1615.0	1837.1	1817.1	2250.4	11492.6	17790.5	19245.3	14536.9
77.5°	1125.2	1128.9	1190.8	1298.2	1456.6	1449.3	1642.3	4965.2	7421.4	7330.3	4972.5
80°	1003.2	1003.2	1032.4	1052.4	1139.8	1107.0	1218.1	2385.2	3137.2	2896.8	1984.6
82.5°	786.6	790.2	968.6	961.4	897.6	855.8	855.8	1405.6	1662.3	1536.7	1161.6
85°	442.4	440.6	624.5	753.8	790.2	602.7	597.2	786.6	904.9	797.5	562.6
87.5°	189.4	193.0	289.5	335.0	447.9	375.1	369.6	406.0	460.6	398.7	260.4
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°	5138.2	5138.2	5138.2	5138.2	5138.2	5138.2	5138.2	5138.2	5138.2	5138.2	5138.2
2.5°	5140.0	5092.6	4988.9	4859.6	4743.1	4666.6	4597.4	4497.2	4502.7	4433.5	4382.5
5°	5136.3	5038.0	4797.7	4511.8	4236.9	4038.4	3889.1	3754.4	3721.6	3657.9	3619.6
7.5°	5140.0	4979.7	4575.5	4118.5	3778.1	3526.8	3399.3	3328.3	3311.9	3290.1	3291.9
10°	5152.7	4926.9	4331.6	3750.7	3393.9	3228.2	3197.2	3219.1	3244.6	3251.9	3253.7
12.5°	5181.9	4879.6	4063.9	3423.0	3153.5	3102.6	3155.4	3230.0	3279.2	3302.8	3301.0
15°	5247.4	4843.2	3807.2	3166.3	3020.6	3047.9	3146.3	3251.9	3322.9	3355.6	3357.5
17.5°	5318.4	4790.4	3543.2	2969.6	2922.3	2991.5	3113.5	3237.3	3324.7	3361.1	3368.4
20°	5411.3	4724.8	3266.4	2822.2	2829.4	2907.7	3022.4	3146.3	3242.8	3273.7	3288.3
22.5°	5533.3	4653.8	3024.3	2702.0	2723.8	2783.9	2873.1	2980.6	3064.3	3078.9	3091.6
25°	5697.1	4577.4	2831.3	2592.7	2601.9	2636.4	2696.5	2760.3	2818.5	2802.1	2814.9
27.5°	5917.4	4511.8	2687.4	2492.6	2476.2	2483.5	2514.5	2534.5	2565.4	2519.9	2525.4
30°	6176.0	4440.8	2576.4	2405.2	2359.7	2346.9	2354.2	2365.2	2388.8	2326.9	2317.8
32.5°	6476.4	4355.2	2472.6	2328.7	2265.0	2239.5	2243.2	2272.3	2363.3	2325.1	2305.1
35°	6826.0	4258.7	2363.3	2245.0	2201.3	2164.9	2161.2	2252.3	2523.6	2499.9	2481.7
37.5°	7235.7	4162.2	2254.1	2150.3	2153.9	2113.9	2101.1	2204.9	2554.5	2461.7	2448.9
40°	7756.4	4111.3	2161.2	2050.2	2095.7	2090.2	2064.7	2117.5	2350.6	2181.3	2159.4
42.5°	8400.9	4118.5	2092.0	1942.7	2026.5	2084.8	2044.7	2046.5	2130.3	2002.8	1982.8
45°	9196.6	4204.1	2042.9	1857.2	1948.2	2079.3	2037.4	2008.3	2015.6	1948.2	1937.3
47.5°	10125.2	4380.7	2008.3	1786.2	1873.6	2059.3	2035.6	1997.4	1981.0	1944.6	1935.5
50°	11157.5	4637.4	1982.8	1718.8	1806.2	2026.5	2037.4	1986.4	1968.2	1953.7	1948.2
52.5°	12171.7	4930.6	1944.6	1660.5	1753.4	1986.4	2042.9	1975.5	1955.5	1944.6	1939.1
55°	13302.4	5296.6	1886.3	1611.4	1709.7	1935.5	2042.9	1959.1	1937.3	1939.1	1937.3
57.5°	14830.0	5888.3	1817.1	1569.5	1656.9	1873.6	2008.3	1940.9	1913.6	1915.4	1917.2
60°	17217.0	6931.6	1733.4	1527.6	1591.3	1800.7	1960.9	1900.9	1873.6	1880.8	1882.7
62.5°	20727.4	8462.8	1624.1	1465.7	1522.1	1722.4	1895.4	1849.9	1822.6	1840.8	1840.8
65°	24376.2	9813.8	1489.4	1387.4	1449.3	1636.9	1813.5	1786.2	1758.8	1800.7	1798.9
67.5°	25357.6	9511.6	1354.6	1301.8	1376.5	1542.2	1715.1	1700.6	1686.0	1758.8	1755.2
70°	22526.3	7636.2	1230.8	1214.4	1296.4	1440.2	1609.5	1609.5	1600.4	1655.1	1642.3
72.5°	17162.4	5414.9	1112.5	1121.6	1205.3	1329.1	1494.8	1507.6	1493.0	1520.3	1509.4
75°	9187.5	3098.9	994.1	1019.6	1092.4	1216.3	1367.4	1380.1	1371.0	1369.2	1374.7
77.5°	3053.4	1514.9	870.3	910.4	974.1	1099.7	1234.5	1254.5	1232.6	1229.0	1227.2
80°	1360.1	952.3	733.8	786.6	843.0	966.8	1094.3	1110.7	1087.0	1119.8	1077.9
82.5°	874.0	626.3	588.1	646.4	701.0	833.9	954.1	957.7	935.9	1087.0	926.8
85°	424.2	387.8	442.4	495.2	542.6	655.5	790.2	792.0	737.4	671.9	648.2
87.5°	211.2	225.8	295.0	342.3	366.0	449.7	575.4	564.4	540.8	491.6	453.4
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)