

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: P193923

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193923  
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-05-LED-E1-T2-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 26133 lumens  
Efficiency: N/A  
Efficacy: 81.7 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): 320  
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

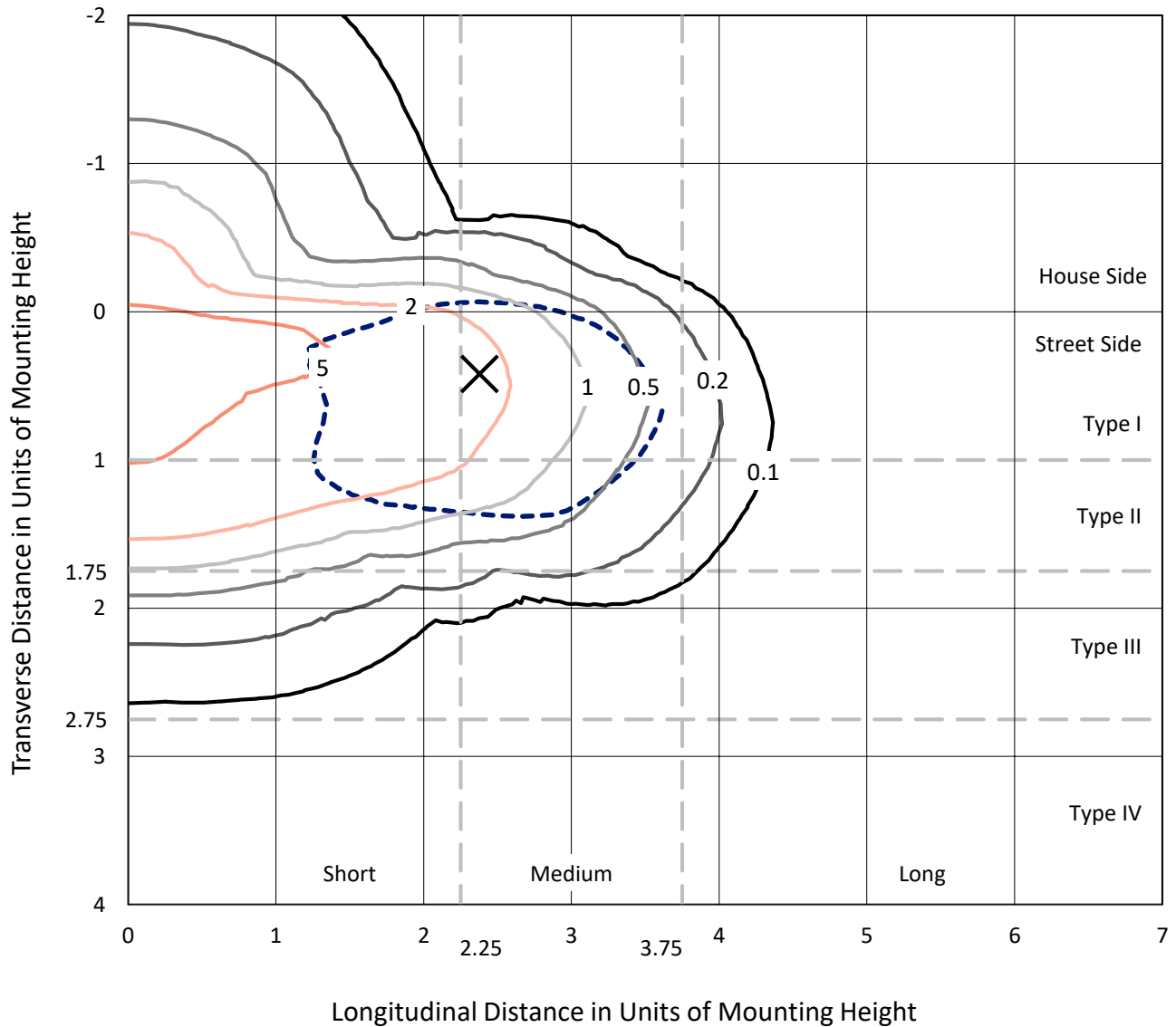


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### Iso-Footcandle Lines of Horizontal Illumination

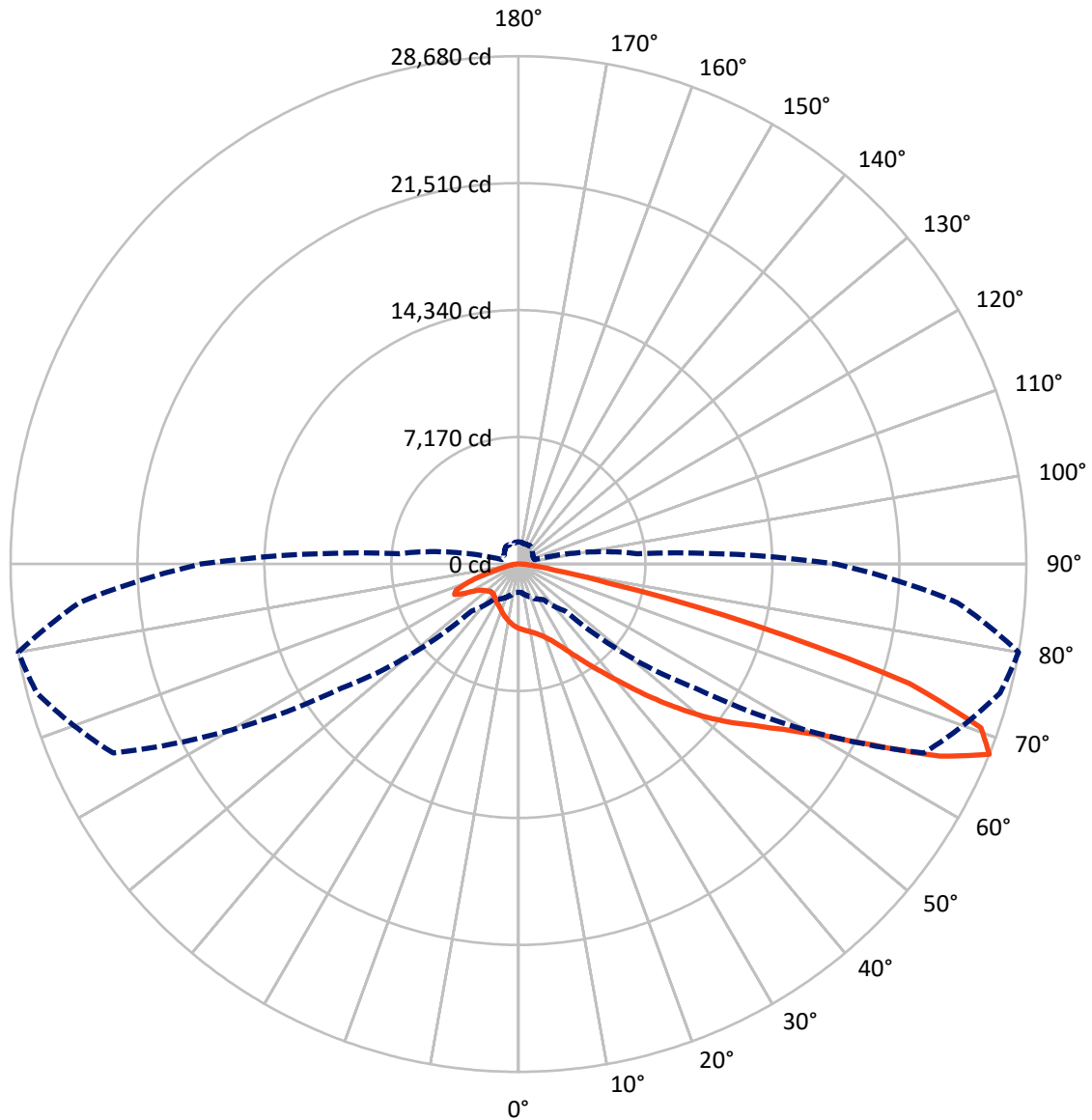
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	4812.7	0.0	4812.7
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	21320.3	0.0	21320.3
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	26133.0	0.0	26133.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.9	1.3
10°-20°	964.8	3.7
20°-30°	1596.9	6.1
30°-40°	2612.1	10.0
40°-50°	4217.6	16.1
50°-60°	6088.9	23.3
60°-70°	6719.5	25.7
70°-80°	3097.3	11.9
80°-90°	501.0	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°	26133.0	100.0
0°-180°	26133.0	100.0



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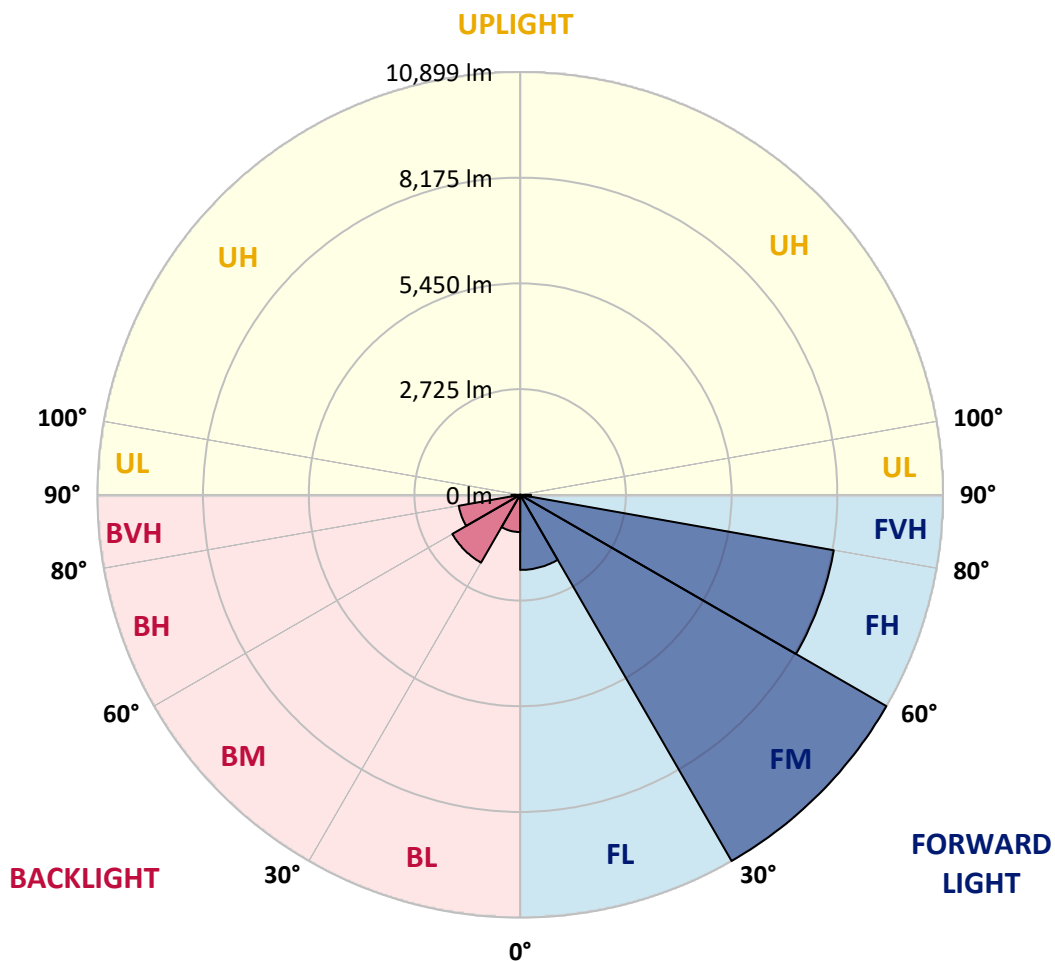
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.4	7.4			
FM (30°-60°)	10899.4	41.7			
FH (60°-80°)	8209.1	31.4			G4/12000
FVH (80°-90°)	275.4	1.1			G3/500
BL (0°-30°)	960.2	3.7	B2/1000		
BM (30°-60°)	2019.2	7.7	B2/2500		
BH (60°-80°)	1607.7	6.2	B3/2500		G3/2500
BVH (80°-90°)	225.5	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°	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6
2.5°	3971.6	3948.4	3952.3	3945.8	3926.5	3893.1	3857.1	3791.5	3723.3	3687.2	3658.9
5°	4303.5	4297.1	4288.1	4267.5	4218.6	4149.1	4062.9	3947.1	3822.3	3756.7	3693.7
7.5°	4551.8	4547.9	4536.4	4523.5	4475.9	4392.3	4262.3	4097.7	3916.2	3826.2	3728.4
10°	4572.4	4578.8	4587.8	4622.6	4629.0	4584.0	4451.5	4252.0	4014.0	3898.2	3773.4
12.5°	4397.4	4411.6	4446.3	4535.1	4629.0	4684.3	4616.1	4414.1	4128.5	3988.3	3830.0
15°	4165.8	4173.6	4216.0	4338.2	4506.8	4677.9	4742.2	4593.0	4276.5	4104.1	3915.0
17.5°	4066.8	4070.6	4100.2	4181.3	4338.2	4582.7	4813.0	4787.2	4457.9	4248.2	4019.2
20°	4016.6	4025.6	4068.1	4147.8	4246.9	4460.5	4823.3	4996.9	4674.0	4428.3	4150.4
22.5°	4159.4	4155.5	4171.0	4210.9	4294.5	4423.1	4815.5	5213.1	4949.3	4659.9	4321.5
25°	4492.6	4506.8	4479.8	4434.7	4461.7	4551.8	4856.7	5447.2	5294.1	4957.1	4545.4
27.5°	4967.4	4953.2	4913.3	4807.8	4752.5	4791.1	4993.1	5699.4	5722.6	5348.2	4841.3
30°	5440.8	5429.2	5390.6	5262.0	5148.8	5116.6	5258.1	5988.9	6233.3	5817.8	5204.1
32.5°	5932.3	5919.4	5883.4	5754.7	5618.3	5543.7	5635.1	6323.4	6835.4	6378.7	5631.2
35°	6538.2	6513.8	6437.9	6259.0	6125.2	6067.4	6109.8	6744.1	7530.2	7042.6	6149.7
37.5°	7108.2	7145.5	7068.3	6821.3	6647.6	6627.0	6674.6	7257.4	8278.9	7784.9	6745.4
40°	7680.7	7687.1	7617.6	7415.7	7236.8	7203.4	7323.0	7880.1	9162.8	8672.6	7469.7
42.5°	8272.5	8285.4	8168.3	7981.7	7850.5	7856.9	7993.3	8609.6	10176.6	9718.6	8303.4
45°	8973.7	8993.0	8864.3	8619.9	8500.2	8740.8	8684.2	9427.8	11288.2	10907.3	9260.6
47.5°	9707.0	9736.6	9638.8	9409.8	9260.6	9591.2	9375.1	10334.8	12484.6	12182.3	10311.7
50°	10107.1	10149.6	10244.8	10228.0	10195.9	10140.6	10145.7	11307.5	13718.4	13510.0	11392.4
52.5°	9892.3	9891.0	10238.3	10660.3	11110.6	11144.1	11084.9	12332.8	14871.2	14808.1	12410.0
55°	8909.3	8976.2	9502.4	10319.4	11549.3	12317.4	12492.4	13507.5	16003.3	16076.7	13443.1
57.5°	7272.8	7328.2	8038.3	9176.9	10957.5	13014.7	14494.2	15214.7	17269.3	17611.5	14818.4
60°	4932.6	4999.5	5752.1	7119.7	9364.8	12626.2	16399.6	18261.2	18784.9	19563.2	16748.3
62.5°	2898.6	2959.1	3572.7	4491.3	6593.5	10821.1	17235.9	22595.6	21192.0	22508.1	19691.9
65°	1995.4	2036.6	2335.1	2795.7	3788.9	7288.3	16198.9	25588.1	24896.0	26156.8	23105.1
67.5°	1605.6	1600.5	1837.2	2151.1	2439.3	3758.0	12249.2	25249.8	28153.5	28679.7	24876.7
70°	1322.6	1317.4	1478.2	1738.1	1949.1	2116.4	6672.0	21307.8	27489.6	27703.2	23245.3
72.5°	1106.4	1111.6	1214.5	1407.5	1599.2	1594.0	2932.0	14989.6	21625.6	23102.5	18530.1
75°	934.0	936.6	1004.8	1141.2	1298.1	1284.0	1590.2	8120.7	12570.8	13598.8	10271.8
77.5°	795.1	797.7	841.4	917.3	1029.2	1024.1	1160.5	3508.4	5244.0	5179.6	3513.6
80°	708.9	708.9	729.5	743.6	805.4	782.2	860.7	1685.4	2216.7	2046.9	1402.3
82.5°	555.8	558.4	684.4	679.3	634.3	604.7	604.7	993.2	1174.6	1085.8	820.8
85°	312.6	311.3	441.3	532.6	558.4	425.8	422.0	555.8	639.4	563.5	397.5
87.5°	133.8	136.4	204.6	236.7	316.5	265.0	261.2	286.9	325.5	281.8	184.0
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°	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6
2.5°	3631.9	3598.5	3525.1	3433.8	3351.5	3297.4	3248.5	3177.8	3181.6	3132.7	3096.7
5°	3629.3	3559.9	3390.0	3188.1	2993.8	2853.6	2748.1	2652.9	2629.7	2584.7	2557.7
7.5°	3631.9	3518.7	3233.1	2910.2	2669.6	2492.0	2402.0	2351.8	2340.2	2324.8	2326.1
10°	3640.9	3481.4	3060.7	2650.3	2398.1	2281.0	2259.2	2274.6	2292.6	2297.8	2299.1
12.5°	3661.5	3447.9	2871.6	2418.7	2228.3	2192.3	2229.6	2282.3	2317.1	2333.8	2332.5
15°	3707.8	3422.2	2690.2	2237.3	2134.4	2153.7	2223.2	2297.8	2347.9	2371.1	2372.4
17.5°	3758.0	3384.9	2503.6	2098.4	2064.9	2113.8	2200.0	2287.5	2349.2	2375.0	2380.1
20°	3823.6	3338.6	2308.1	1994.1	1999.3	2054.6	2135.7	2223.2	2291.3	2313.2	2323.5
22.5°	3909.8	3288.4	2137.0	1909.2	1924.7	1967.1	2030.2	2106.1	2165.3	2175.5	2184.6
25°	4025.6	3234.4	2000.6	1832.0	1838.5	1862.9	1905.4	1950.4	1991.6	1980.0	1989.0
27.5°	4181.3	3188.1	1898.9	1761.3	1749.7	1754.8	1776.7	1790.9	1812.7	1780.6	1784.4
30°	4364.0	3137.9	1820.5	1699.5	1667.4	1658.4	1663.5	1671.2	1687.9	1644.2	1637.8
32.5°	4576.2	3077.4	1747.1	1645.5	1600.5	1582.5	1585.0	1605.6	1669.9	1642.9	1628.8
35°	4823.3	3009.2	1669.9	1586.3	1555.4	1529.7	1527.1	1591.5	1783.2	1766.4	1753.6
37.5°	5112.7	2941.0	1592.7	1519.4	1522.0	1493.7	1484.7	1558.0	1805.0	1739.4	1730.4
40°	5480.7	2905.0	1527.1	1448.7	1480.8	1477.0	1458.9	1496.3	1660.9	1541.3	1525.8
42.5°	5936.1	2910.2	1478.2	1372.7	1431.9	1473.1	1444.8	1446.1	1505.3	1415.2	1401.0
45°	6498.3	2970.6	1443.5	1312.3	1376.6	1469.2	1439.6	1419.1	1424.2	1376.6	1368.9
47.5°	7154.5	3095.4	1419.1	1262.1	1323.9	1455.1	1438.4	1411.3	1399.8	1374.0	1367.6
50°	7884.0	3276.8	1401.0	1214.5	1276.3	1431.9	1439.6	1403.6	1390.8	1380.5	1376.6
52.5°	8600.6	3484.0	1374.0	1173.3	1238.9	1403.6	1443.5	1395.9	1381.8	1374.0	1370.2
55°	9399.5	3742.6	1332.9	1138.6	1208.1	1367.6	1443.5	1384.3	1368.9	1370.2	1368.9
57.5°	10478.9	4160.7	1284.0	1109.0	1170.8	1323.9	1419.1	1371.5	1352.2	1353.4	1354.7
60°	12165.6	4897.9	1224.8	1079.4	1124.4	1272.4	1385.6	1343.2	1323.9	1329.0	1330.3
62.5°	14646.0	5979.9	1147.6	1035.7	1075.6	1217.1	1339.3	1307.1	1287.8	1300.7	1300.7
65°	17224.3	6934.5	1052.4	980.3	1024.1	1156.6	1281.4	1262.1	1242.8	1272.4	1271.1
67.5°	17917.7	6720.9	957.2	919.9	972.6	1089.7	1211.9	1201.6	1191.3	1242.8	1240.2
70°	15917.2	5395.8	869.7	858.1	916.0	1017.7	1137.3	1137.3	1130.9	1169.5	1160.5
72.5°	12127.0	3826.2	786.1	792.5	851.7	939.2	1056.3	1065.3	1055.0	1074.3	1066.5
75°	6491.9	2189.7	702.5	720.5	771.9	859.4	966.2	975.2	968.8	967.5	971.3
77.5°	2157.5	1070.4	615.0	643.3	688.3	777.1	872.3	886.4	871.0	868.4	867.1
80°	961.1	672.9	518.5	555.8	595.7	683.2	773.2	784.8	768.1	791.2	761.6
82.5°	617.5	442.6	415.6	456.7	495.3	589.2	674.2	676.7	661.3	768.1	654.9
85°	299.8	274.0	312.6	349.9	383.4	463.2	558.4	559.6	521.1	474.7	458.0
87.5°	149.2	159.5	208.4	241.9	258.6	317.8	406.5	398.8	382.1	347.4	320.4
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)