

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: P193497

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-09-LED-E1-AFL-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29351 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 290  
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

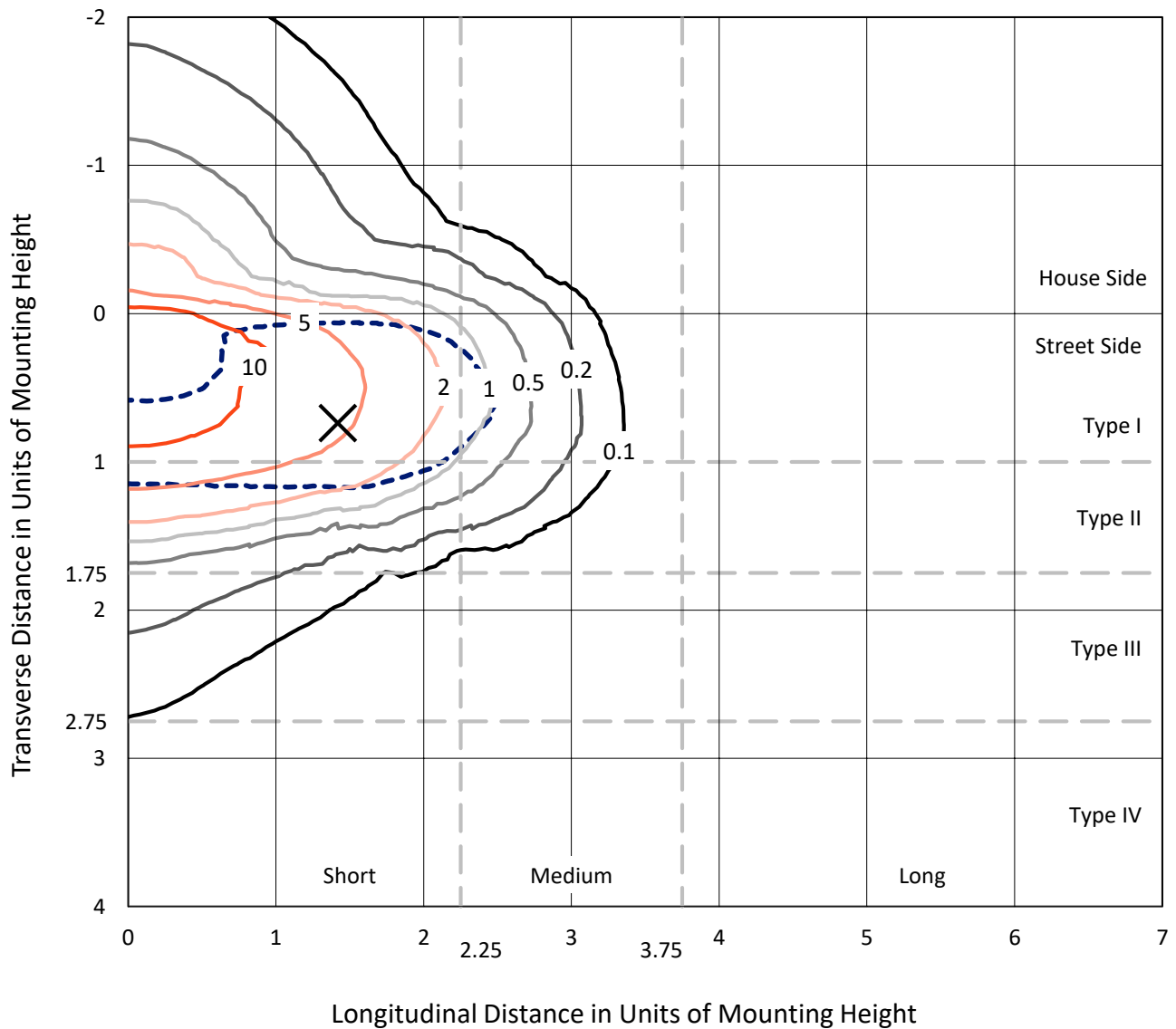


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### Iso-Footcandle Lines of Horizontal Illumination

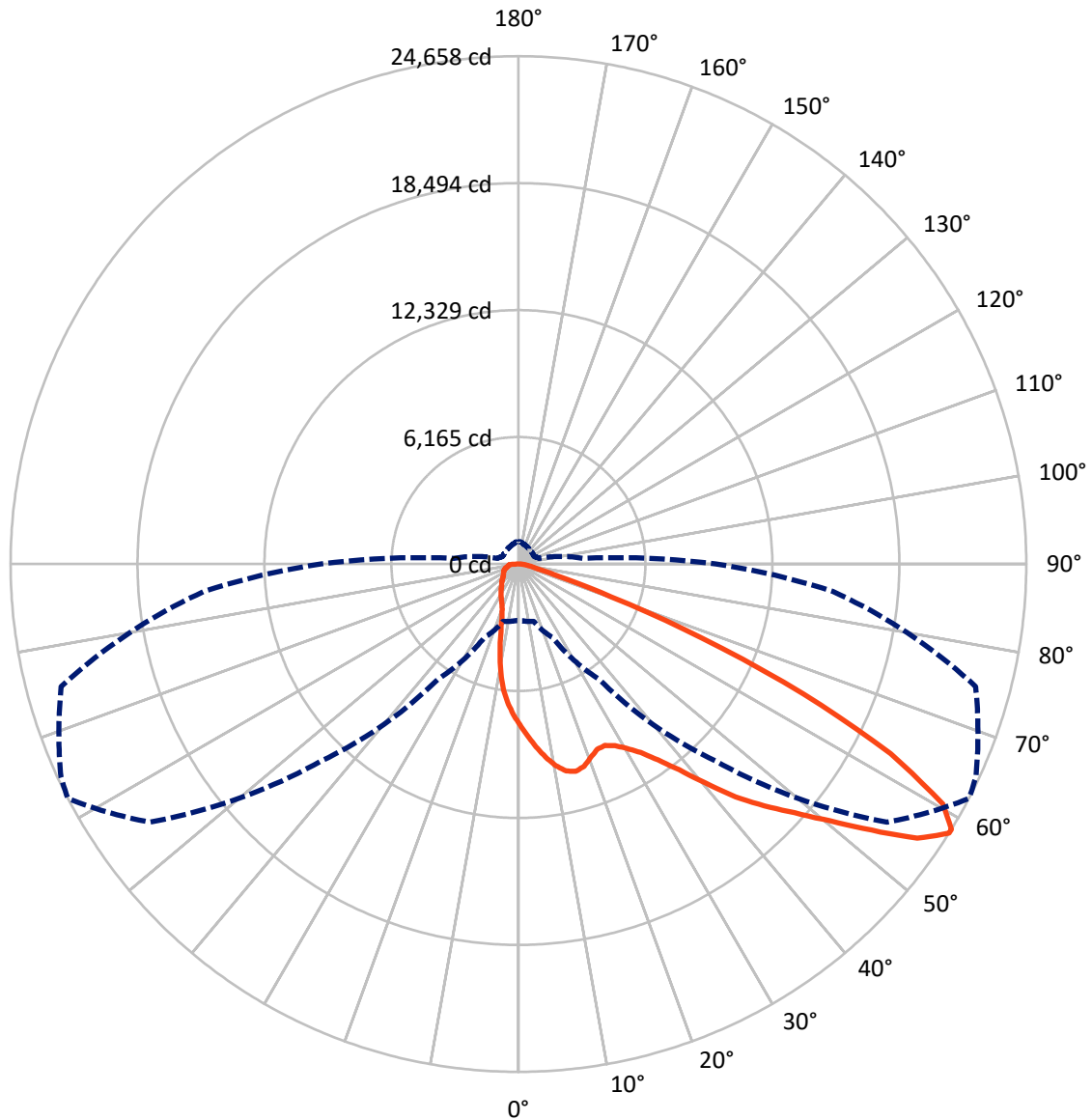
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4476.1	0.0	4476.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	24874.9	0.0	24874.9
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	29351.0	0.0	29351.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	697.3	2.4
10°-20°	1782.4	6.1
20°-30°	2881.2	9.8
30°-40°	4574.0	15.6
40°-50°	6692.6	22.8
50°-60°	6999.9	23.8
60°-70°	4135.6	14.1
70°-80°	1165.0	4.0
80°-90°	423.0	1.4
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°	29351.0	100.0
0°-180°	29351.0	100.0

**Coefficient of Utilization**



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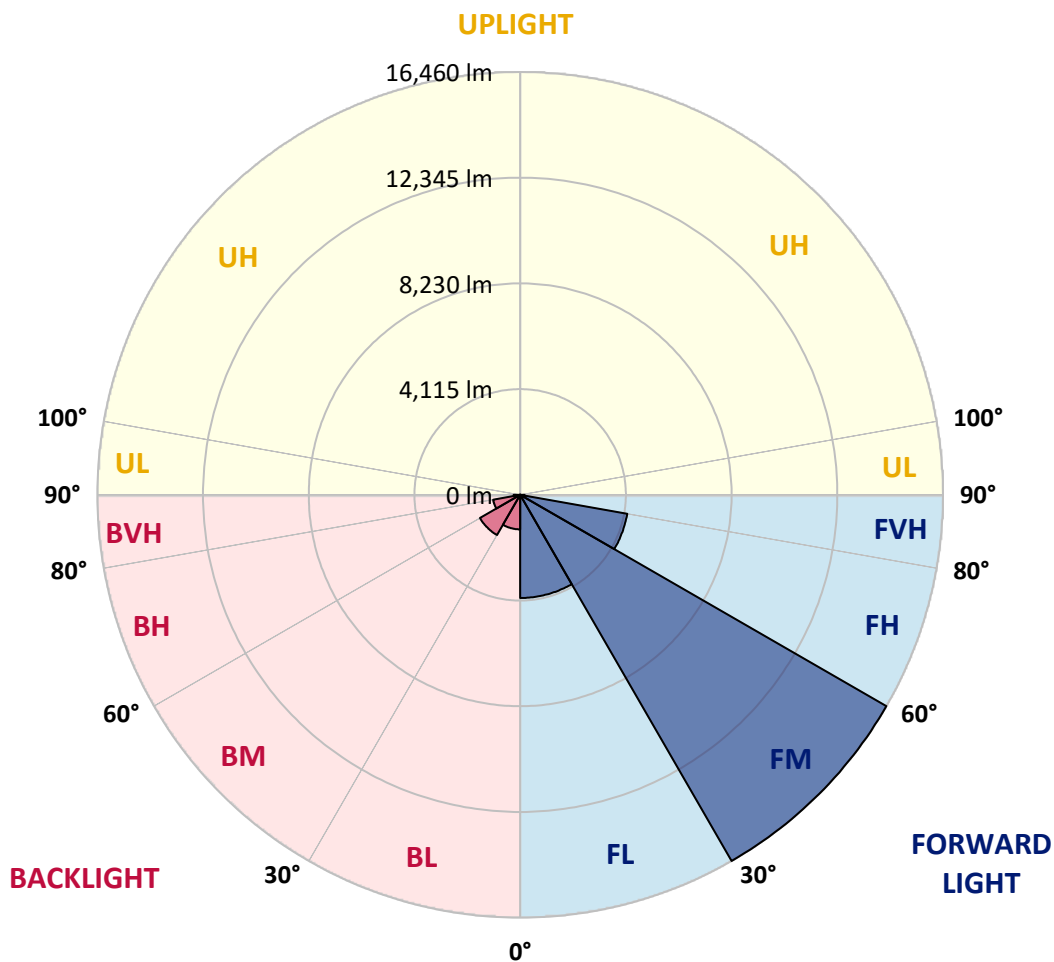
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4015.6	13.7			
FM	(30°-60°)	16459.9	56.1			
FH	(60°-80°)	4232.5	14.4			G2/5000
FVH	(80°-90°)	166.9	0.6			G2/225
BL	(0°-30°)	1345.3	4.6	B3/2500		
BM	(30°-60°)	1806.7	6.2	B2/2500		
BH	(60°-80°)	1068.0	3.6	B3/2500		G3/2500
BVH	(80°-90°)	256.1	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	7796.5	7796.5	7796.5	7796.5	7796.5	7796.5	7796.5	7796.5	7796.5	7796.5	7796.5
2.5°	8909.1	8837.2	8791.6	8751.5	8699.0	8587.1	8436.4	8341.0	8292.7	8128.2	7933.3
5°	9782.6	9719.0	9672.0	9618.1	9524.1	9348.6	9105.4	8911.9	8816.5	8487.6	8097.8
7.5°	9578.0	9604.3	9685.8	9828.2	9949.8	9926.3	9709.3	9463.3	9337.6	8880.1	8288.5
10°	8345.2	8390.8	8531.8	8864.9	9403.9	9956.7	10125.4	9955.4	9828.2	9268.4	8484.8
12.5°	8097.8	8096.4	8107.5	8195.9	8516.6	9294.7	10139.2	10310.6	10234.5	9638.9	8685.2
15°	8198.7	8201.5	8193.2	8230.5	8330.0	8638.2	9716.2	10447.4	10501.3	10012.0	8892.5
17.5°	8464.1	8457.1	8425.4	8425.4	8461.3	8581.5	9218.7	10320.2	10569.0	10342.3	9074.9
20°	8909.1	8877.3	8793.0	8715.6	8676.9	8741.9	9014.1	10027.2	10451.5	10631.2	9225.6
22.5°	9448.1	9423.2	9286.4	9120.6	8986.5	8985.1	9119.2	9771.5	10248.4	10903.5	9352.8
25°	10144.7	10104.6	9901.5	9636.1	9401.1	9311.3	9348.6	9759.1	10137.8	11199.3	9466.1
27.5°	10962.9	10889.7	10649.2	10266.3	9920.8	9739.7	9685.8	9984.4	10238.7	11565.5	9623.6
30°	11955.3	11871.0	11562.8	11063.8	10575.9	10278.8	10164.1	10383.8	10573.2	12011.9	9876.6
32.5°	13084.5	12962.8	12606.2	12056.2	11414.9	10961.5	10774.9	10911.8	11062.4	12549.6	10193.1
35°	14644.9	14499.7	13984.2	13225.4	12501.2	11877.9	11579.3	11678.8	11825.4	13351.2	10650.6
37.5°	15709.1	15644.1	15301.4	14588.2	13800.4	13083.1	12621.4	12679.5	12762.4	14353.2	11236.6
40°	15699.4	15725.7	15732.6	15739.5	15203.2	14516.3	14020.1	13959.3	13942.7	15453.4	11902.8
42.5°	14913.0	15020.8	15369.1	16075.3	16401.5	16086.4	15631.7	15456.2	15369.1	16749.8	12609.0
45°	13709.2	13767.2	14419.6	15798.9	17015.2	17641.3	17297.1	16744.3	16586.7	17941.2	13195.0
47.5°	13088.6	13152.2	13562.7	15066.4	17008.3	18897.6	19096.6	18043.5	17761.5	18977.8	13700.9
50°	11611.1	11743.8	12260.7	13792.1	16387.7	19475.3	20977.7	19591.4	19008.2	19986.7	14208.1
52.5°	8898.0	9102.6	9681.7	11696.8	14813.5	19189.2	22482.8	21468.4	20644.6	21031.6	14643.5
55°	5612.8	5764.8	6251.3	8260.9	11850.2	17700.7	23053.6	23498.7	22766.2	22021.2	15020.8
57.5°	3051.7	3119.4	3301.9	4561.0	7708.0	14409.9	22221.6	24654.1	24350.1	22861.5	15305.5
58°	2731.1	2776.7	2890.0	3952.8	6835.9	13510.1	21852.6	24658.3	24506.2	22984.5	15327.6
60°	2026.2	2002.7	1901.8	2255.6	3805.0	9333.4	19621.8	23671.4	24117.9	23135.2	15219.8
62.5°	1780.2	1723.5	1517.6	1494.1	1850.6	4299.8	15013.9	20277.0	21331.5	22275.5	14564.7
65°	1672.4	1611.5	1346.2	1260.5	1335.1	1818.9	8844.1	15207.4	16530.1	19668.8	12889.6
67.5°	1592.2	1513.4	1237.0	1119.5	1125.0	1202.4	3545.1	9578.0	11066.6	14933.7	10025.8
70°	1514.8	1429.1	1144.4	1008.9	977.2	950.9	1409.8	4794.5	6144.9	9432.9	6392.3
72.5°	1431.9	1347.6	1062.8	921.9	859.7	772.6	920.5	1961.2	2739.3	4462.8	2899.7
75°	1311.6	1235.6	981.3	844.5	756.0	639.9	695.2	1024.1	1228.7	1777.4	1397.3
77.5°	1163.7	1101.5	890.1	780.9	670.3	519.7	534.9	710.4	787.8	1017.2	830.6
80°	836.2	858.3	792.0	702.1	597.1	421.5	410.5	518.3	559.8	653.7	540.4
82.5°	587.4	599.8	655.1	573.6	493.4	331.7	302.7	364.9	389.8	429.8	291.6
85°	405.0	391.1	449.2	399.4	356.6	221.1	207.3	247.4	262.6	266.7	150.7
87.5°	243.3	243.3	259.8	214.2	192.1	114.7	112.0	141.0	150.7	143.7	82.9
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°	7796.5	7796.5	7796.5	7796.5	7796.5	7796.5	7796.5	7796.5	7796.5	7796.5	7796.5
2.5°	7817.2	7719.1	7510.4	7343.2	7131.7	6911.9	6788.9	6657.6	6567.8	6502.8	6606.5
5°	7876.7	7676.3	7245.0	6835.9	6384.0	5914.1	5557.5	5225.8	4995.0	4851.2	4986.7
7.5°	7970.6	7662.4	6975.5	6276.2	5464.9	4682.6	3983.2	3545.1	3289.4	3163.7	3242.4
10°	8078.4	7640.3	6659.0	5517.4	4356.4	3371.0	2848.5	2671.6	2613.6	2590.1	2601.1
12.5°	8168.3	7593.3	6270.6	4599.7	3271.5	2661.9	2511.3	2507.2	2519.6	2522.4	2526.5
15°	8231.9	7524.2	5694.3	3643.2	2616.3	2425.6	2417.3	2442.2	2465.7	2475.4	2480.9
17.5°	8274.7	7381.9	5043.3	2880.3	2344.1	2310.9	2330.2	2362.0	2386.9	2393.8	2399.3
20°	8270.6	7173.2	4268.0	2402.1	2196.2	2196.2	2229.3	2254.2	2255.6	2247.3	2251.5
22.5°	8227.7	6887.1	3516.1	2147.8	2064.9	2088.4	2121.5	2098.0	2001.3	1937.7	1941.9
25°	8155.8	6545.7	2872.0	1986.1	1943.2	1984.7	1975.0	1798.1	1659.9	1597.7	1597.7
27.5°	8092.3	6142.1	2377.2	1845.1	1821.6	1872.8	1701.4	1541.1	1483.0	1454.0	1444.3
30°	8046.7	5706.7	2046.9	1709.7	1706.9	1669.6	1476.1	1431.9	1422.2	1398.7	1390.4
32.5°	8057.7	5265.8	1835.4	1590.8	1600.5	1429.1	1368.3	1378.0	1369.7	1344.8	1333.7
35°	8148.9	4847.1	1697.2	1483.0	1454.0	1290.9	1304.7	1322.7	1319.9	1285.4	1274.3
37.5°	8312.0	4450.4	1606.0	1393.2	1268.8	1221.8	1243.9	1271.5	1264.6	1241.1	1232.8
40°	8483.4	4077.2	1531.4	1322.7	1159.6	1174.8	1194.1	1209.3	1216.3	1223.2	1217.6
42.5°	8650.6	3687.5	1440.2	1250.8	1114.0	1130.6	1138.9	1154.1	1191.4	1217.6	1216.3
45°	8750.2	3321.2	1346.2	1148.5	1078.0	1087.7	1082.2	1112.6	1158.2	1201.1	1202.4
47.5°	8860.7	3036.5	1271.5	1054.6	1043.5	1050.4	1033.8	1064.2	1105.7	1158.2	1163.7
50°	8994.8	2866.5	1212.1	979.9	996.5	996.5	992.4	1020.0	1078.0	1138.9	1149.9
52.5°	9146.8	2833.3	1162.4	926.0	949.5	948.1	952.3	993.7	1057.3	1116.7	1126.4
55°	9332.0	2923.2	1108.5	885.9	903.9	909.4	923.3	970.2	1024.1	1091.9	1096.0
57.5°	9547.6	3105.6	1065.6	854.1	862.4	880.4	902.5	945.4	1003.4	1078.0	1082.2
58°	9583.6	3144.3	1058.7	851.4	854.1	874.9	899.8	941.2	999.3	1080.8	1085.0
60°	9584.9	3272.8	1043.5	838.9	822.4	856.9	884.6	926.0	992.4	1090.5	1100.2
62.5°	9244.9	3271.5	1032.4	821.0	789.2	832.0	863.8	912.2	985.4	1114.0	1133.3
65°	8140.6	2972.9	979.9	793.3	762.9	809.9	845.9	902.5	1004.8	1216.3	1228.7
67.5°	6367.4	2436.7	881.8	754.6	728.4	787.8	834.8	901.1	1025.5	1239.8	1248.0
70°	4209.9	1823.0	774.0	710.4	692.4	761.5	840.3	948.1	1002.0	1190.0	1167.9
72.5°	2185.1	1279.8	686.9	655.1	651.0	738.0	920.5	942.6	978.5	1119.5	1091.9
75°	1147.2	888.7	610.9	594.3	601.2	732.5	1086.3	917.7	948.1	1071.1	1123.7
77.5°	702.1	717.3	545.9	539.0	552.8	715.9	1085.0	885.9	903.9	985.4	1043.5
80°	469.9	581.9	496.2	497.6	507.2	655.1	974.4	836.2	850.0	931.5	991.0
82.5°	297.2	344.1	450.6	474.1	461.6	540.4	827.9	761.5	780.9	1065.6	1126.4
85°	150.7	215.6	391.1	456.1	416.0	378.7	671.7	667.6	677.2	768.5	803.0
87.5°	69.1	118.9	305.4	398.0	313.7	236.3	487.9	494.8	533.5	545.9	545.9
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)