

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: P193523

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193523  
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-05-LED-E1-AFL-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27320 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

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

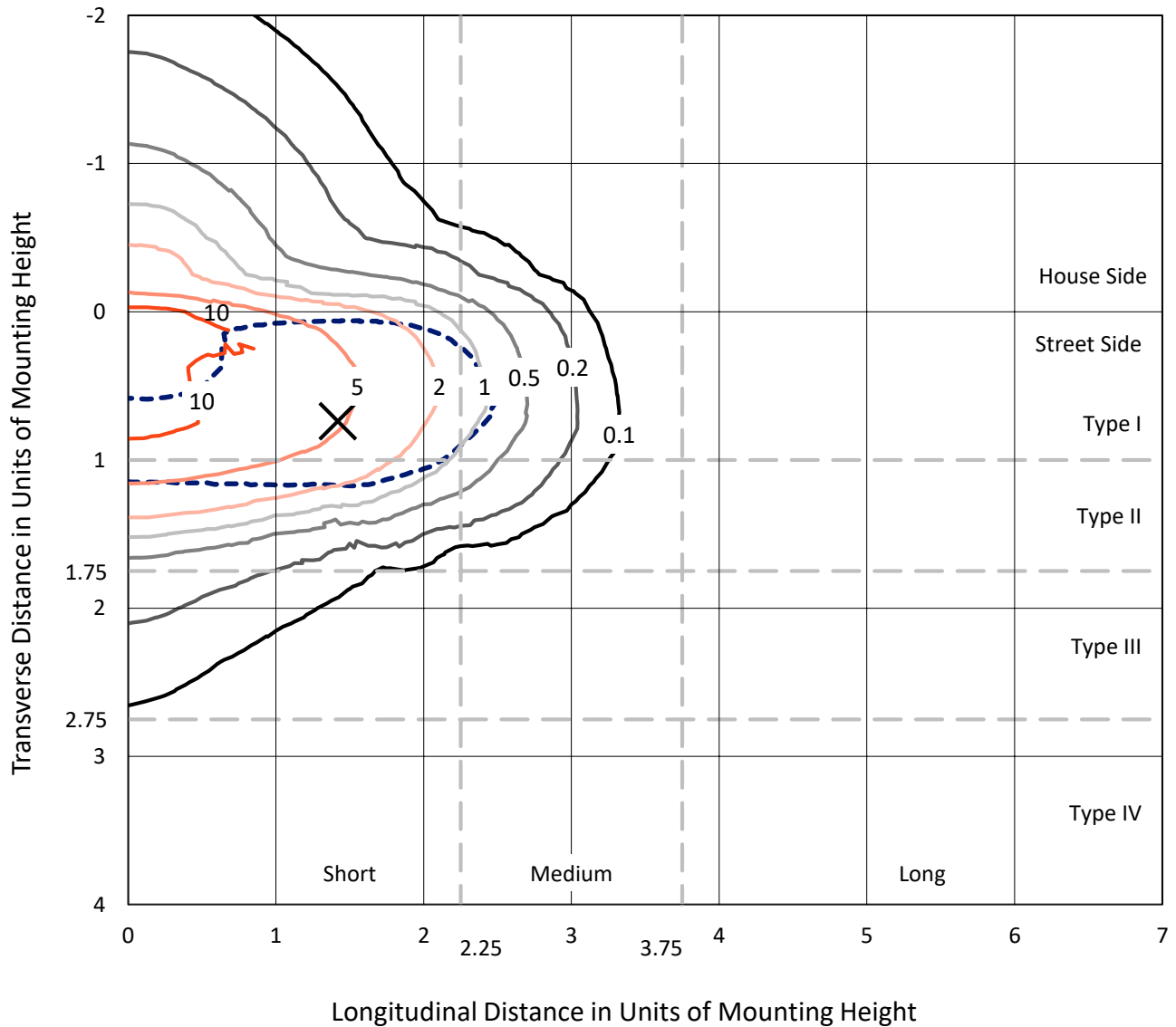


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

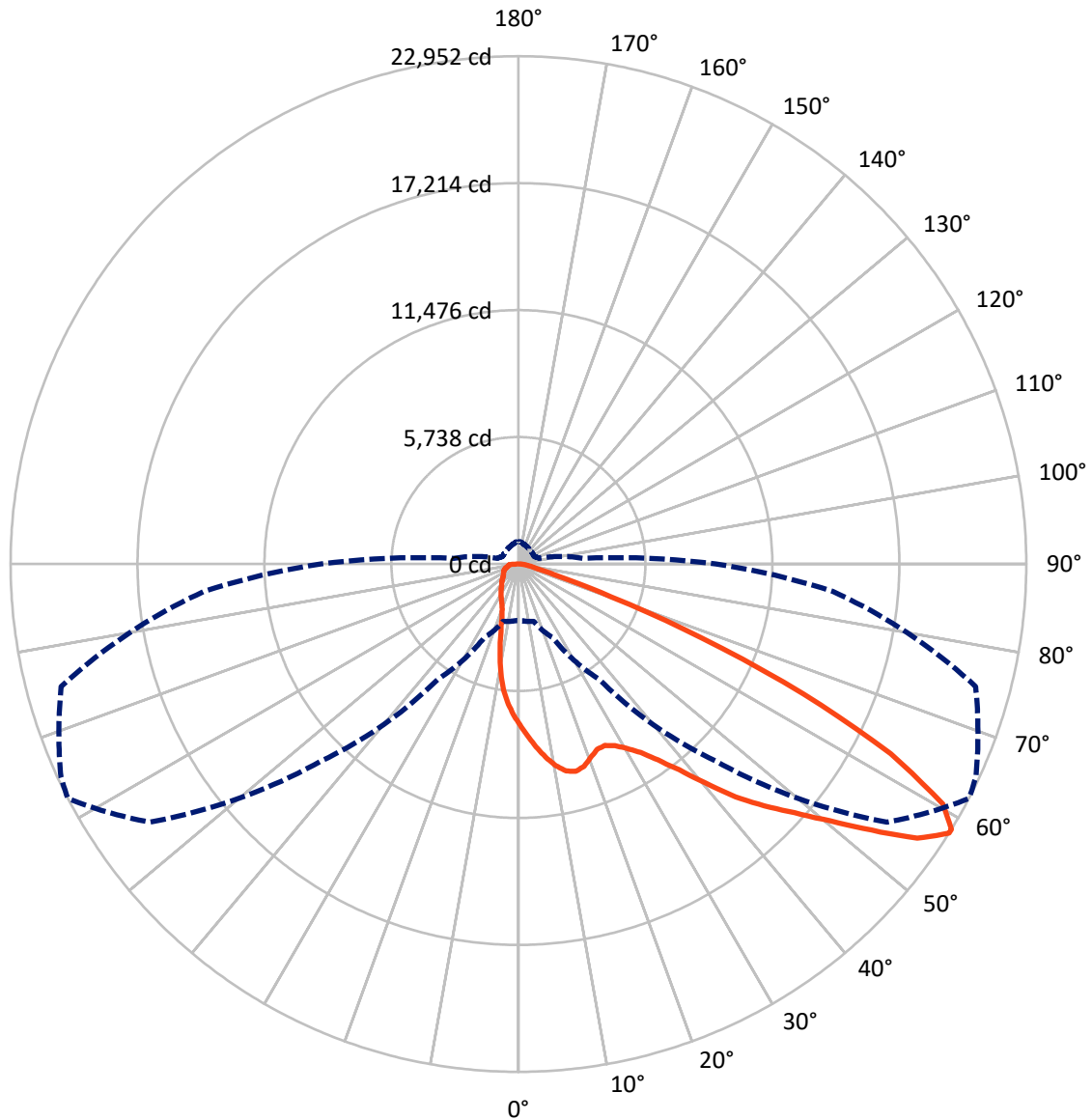


Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type II - Short - Full Cutoff

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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	4166.4	0.0	4166.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	23153.6	0.0	23153.6
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	27320.0	0.0	27320.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	649.0	2.4
10°-20°	1659.0	6.1
20°-30°	2681.9	9.8
30°-40°	4257.5	15.6
40°-50°	6229.5	22.8
50°-60°	6515.6	23.8
60°-70°	3849.4	14.1
70°-80°	1084.4	4.0
80°-90°	393.7	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°	27320.0	100.0
0°-180°	27320.0	100.0



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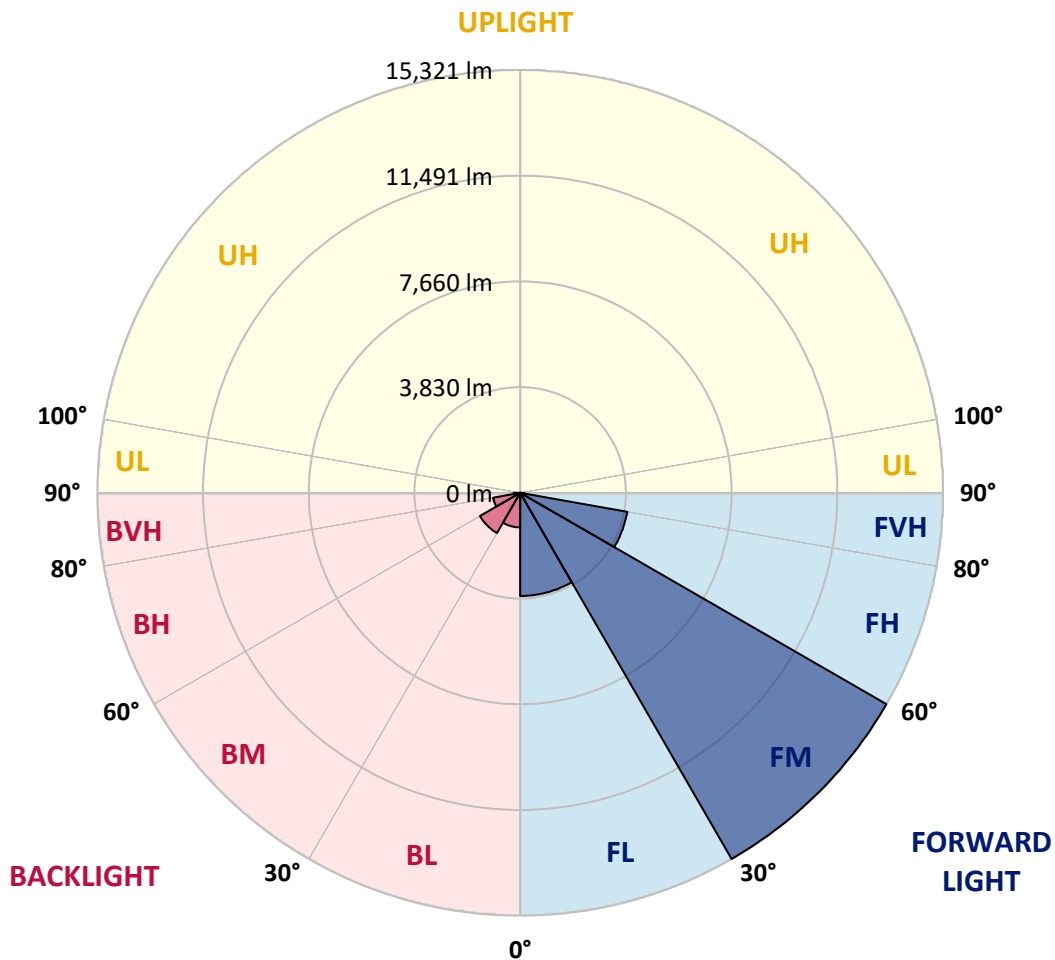
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3737.7	13.7			
FM	(30°-60°)	15320.9	56.1			
FH	(60°-80°)	3939.7	14.4			G2/5000
FVH	(80°-90°)	155.3	0.6			G2/225
BL	(0°-30°)	1252.2	4.6	B3/2500		
BM	(30°-60°)	1681.7	6.2	B2/2500		
BH	(60°-80°)	994.1	3.6	B2/1000		G2/1000
BVH	(80°-90°)	238.4	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°	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0
2.5°	8292.6	8225.7	8183.3	8146.0	8097.1	7992.9	7852.6	7763.9	7718.8	7565.8	7384.4
5°	9105.7	9046.5	9002.7	8952.6	8865.1	8701.7	8475.3	8295.2	8206.4	7900.2	7537.5
7.5°	8915.3	8939.7	9015.6	9148.1	9261.3	9239.5	9037.5	8808.5	8691.4	8265.6	7715.0
10°	7767.7	7810.2	7941.4	8251.4	8753.2	9267.8	9424.7	9266.5	9148.1	8627.1	7897.7
12.5°	7537.5	7536.2	7546.5	7628.8	7927.3	8651.5	9437.6	9597.1	9526.3	8971.9	8084.2
15°	7631.4	7633.9	7626.2	7661.0	7753.6	8040.5	9043.9	9724.5	9774.6	9319.2	8277.2
17.5°	7878.4	7871.9	7842.3	7842.3	7875.8	7987.7	8580.8	9606.1	9837.7	9626.7	8447.0
20°	8292.6	8263.0	8184.5	8112.5	8076.5	8137.0	8390.4	9333.4	9728.3	9895.6	8587.2
22.5°	8794.3	8771.2	8643.8	8489.4	8364.7	8363.4	8488.2	9095.4	9539.2	10149.0	8705.6
25°	9442.7	9405.4	9216.3	8969.3	8750.6	8667.0	8701.7	9083.8	9436.3	10424.3	8811.1
27.5°	10204.3	10136.1	9912.3	9555.9	9234.3	9065.8	9015.6	9293.5	9530.2	10765.2	8957.7
30°	11128.0	11049.5	10762.6	10298.2	9844.1	9567.5	9460.7	9665.3	9841.5	11180.7	9193.1
32.5°	12179.1	12065.8	11733.9	11221.9	10625.0	10203.0	10029.4	10156.7	10296.9	11681.2	9487.7
35°	13631.5	13496.4	13016.5	12310.3	11636.2	11056.0	10778.1	10870.7	11007.1	12427.3	9913.6
37.5°	14622.1	14561.6	14242.6	13578.7	12845.4	12177.8	11748.1	11802.1	11879.3	13360.0	10459.0
40°	14613.1	14637.5	14643.9	14650.4	14151.2	13511.8	13050.0	12993.4	12978.0	14384.1	11079.1
42.5°	13881.1	13981.4	14305.6	14963.0	15266.6	14973.3	14550.0	14386.6	14305.6	15590.8	11736.5
45°	12760.5	12814.6	13421.8	14705.7	15837.8	16420.6	16100.2	15585.6	15439.0	16699.7	12282.0
47.5°	12182.9	12242.1	12624.2	14023.9	15831.4	17590.0	17775.2	16794.9	16532.5	17664.6	12752.8
50°	10807.7	10931.2	11412.3	12837.7	15253.7	18127.7	19526.1	18235.8	17692.9	18603.7	13225.0
52.5°	8282.3	8472.7	9011.8	10887.4	13788.4	17861.4	20927.1	19982.8	19216.1	19576.3	13630.2
55°	5224.4	5365.9	5818.7	7689.3	11030.2	16475.9	21458.4	21872.6	21190.8	20497.4	13981.4
57.5°	2840.5	2903.6	3073.4	4245.4	7174.7	13412.8	20683.9	22948.1	22665.1	21279.6	14246.4
58°	2542.1	2584.5	2690.0	3679.3	6362.9	12575.3	20340.4	22952.0	22810.5	21394.1	14267.0
60°	1886.0	1864.1	1770.2	2099.5	3541.7	8687.6	18264.1	22033.4	22449.0	21534.3	14166.7
62.5°	1657.0	1604.2	1412.5	1390.7	1722.6	4002.2	13975.0	18873.9	19855.4	20734.1	13556.9
65°	1556.6	1500.0	1253.0	1173.3	1242.7	1693.0	8232.1	14155.1	15386.2	18307.8	11997.7
67.5°	1482.0	1408.7	1151.4	1042.0	1047.2	1119.2	3299.8	8915.3	10300.8	13900.4	9332.1
70°	1410.0	1330.2	1065.2	939.1	909.5	885.1	1312.2	4462.8	5719.7	8780.2	5949.9
72.5°	1332.8	1254.3	989.3	858.1	800.2	719.1	856.8	1825.5	2549.8	4154.0	2699.0
75°	1220.9	1150.1	913.4	786.0	703.7	595.6	647.1	953.3	1143.7	1654.4	1300.6
77.5°	1083.2	1025.3	828.5	726.9	623.9	483.7	497.9	661.2	733.3	946.8	773.2
80°	778.3	798.9	737.1	653.5	555.8	392.4	382.1	482.4	521.0	608.5	503.0
82.5°	546.8	558.3	609.8	533.9	459.3	308.8	281.7	339.6	362.8	400.1	271.4
85°	376.9	364.1	418.1	371.8	331.9	205.8	193.0	230.3	244.4	248.3	140.2
87.5°	226.4	226.4	241.9	199.4	178.8	106.8	104.2	131.2	140.2	133.8	77.2
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°	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0
2.5°	7276.3	7185.0	6990.7	6835.0	6638.2	6433.7	6319.2	6196.9	6113.3	6052.9	6149.3
5°	7331.6	7145.1	6743.7	6362.9	5942.2	5504.8	5172.9	4864.2	4649.3	4515.5	4641.6
7.5°	7419.1	7132.2	6492.8	5841.9	5086.7	4358.6	3707.6	3299.8	3061.8	2944.7	3018.1
10°	7519.4	7111.6	6198.2	5135.6	4055.0	3137.7	2651.4	2486.8	2432.7	2410.9	2421.1
12.5°	7603.1	7067.9	5836.7	4281.4	3045.1	2477.7	2337.5	2333.7	2345.2	2347.8	2351.7
15°	7662.2	7003.6	5300.3	3391.1	2435.3	2257.8	2250.0	2273.2	2295.1	2304.1	2309.2
17.5°	7702.1	6871.1	4694.3	2681.0	2181.9	2151.0	2169.0	2198.6	2221.7	2228.2	2233.3
20°	7698.3	6676.8	3972.6	2235.9	2044.2	2044.2	2075.1	2098.2	2099.5	2091.8	2095.7
22.5°	7658.4	6410.5	3272.8	1999.2	1922.0	1943.9	1974.7	1952.9	1862.8	1803.6	1807.5
25°	7591.5	6092.7	2673.3	1848.7	1808.8	1847.4	1838.4	1673.7	1545.1	1487.2	1487.2
27.5°	7532.3	5717.1	2212.7	1717.4	1695.6	1743.2	1583.6	1434.4	1380.4	1353.4	1344.4
30°	7489.9	5311.9	1905.3	1591.4	1588.8	1554.1	1374.0	1332.8	1323.8	1301.9	1294.2
32.5°	7500.1	4901.5	1708.4	1480.7	1489.7	1330.2	1273.6	1282.6	1274.9	1251.7	1241.4
35°	7585.1	4511.7	1579.8	1380.4	1353.4	1201.6	1214.4	1231.2	1228.6	1196.4	1186.1
37.5°	7736.9	4142.4	1494.9	1296.8	1181.0	1137.2	1157.8	1183.6	1177.1	1155.3	1147.5
40°	7896.4	3795.1	1425.4	1231.2	1079.4	1093.5	1111.5	1125.7	1132.1	1138.5	1133.4
42.5°	8052.0	3432.3	1340.5	1164.3	1036.9	1052.3	1060.1	1074.2	1108.9	1133.4	1132.1
45°	8144.7	3091.4	1253.0	1069.1	1003.4	1012.5	1007.3	1035.6	1078.1	1117.9	1119.2
47.5°	8247.6	2826.4	1183.6	981.6	971.3	977.7	962.3	990.6	1029.2	1078.1	1083.2
50°	8372.4	2668.1	1128.2	912.1	927.5	927.5	923.7	949.4	1003.4	1060.1	1070.3
52.5°	8513.9	2637.3	1081.9	861.9	883.8	882.5	886.4	925.0	984.2	1039.5	1048.5
55°	8686.3	2720.9	1031.8	824.6	841.4	846.5	859.4	903.1	953.3	1016.3	1020.2
57.5°	8887.0	2890.7	991.9	795.0	802.8	819.5	840.1	879.9	934.0	1003.4	1007.3
58°	8920.4	2926.7	985.4	792.5	795.0	814.3	837.5	876.1	930.1	1006.0	1009.9
60°	8921.7	3046.4	971.3	780.9	765.5	797.6	823.3	861.9	923.7	1015.0	1024.0
62.5°	8605.2	3045.1	961.0	764.2	734.6	774.5	804.0	849.1	917.3	1036.9	1054.9
65°	7577.3	2767.2	912.1	738.4	710.1	753.9	787.3	840.1	935.3	1132.1	1143.7
67.5°	5926.8	2268.1	820.8	702.4	678.0	733.3	777.0	838.8	954.6	1154.0	1161.7
70°	3918.6	1696.9	720.4	661.2	644.5	708.8	782.2	882.5	932.7	1107.7	1087.1
72.5°	2033.9	1191.3	639.4	609.8	605.9	687.0	856.8	877.4	910.8	1042.0	1016.3
75°	1067.8	827.2	568.6	553.2	559.6	681.8	1011.2	854.2	882.5	997.0	1045.9
77.5°	653.5	667.7	508.2	501.7	514.6	666.4	1009.9	824.6	841.4	917.3	971.3
80°	437.4	541.6	461.8	463.1	472.1	609.8	907.0	778.3	791.2	867.1	922.4
82.5°	276.6	320.3	419.4	441.3	429.7	503.0	770.6	708.8	726.9	991.9	1048.5
85°	140.2	200.7	364.1	424.5	387.2	352.5	625.2	621.4	630.4	715.3	747.4
87.5°	64.3	110.6	284.3	370.5	292.0	220.0	454.1	460.6	496.6	508.2	508.2
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)