

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: P191772

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191772  
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-04-LED-E1-AFL-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24634 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

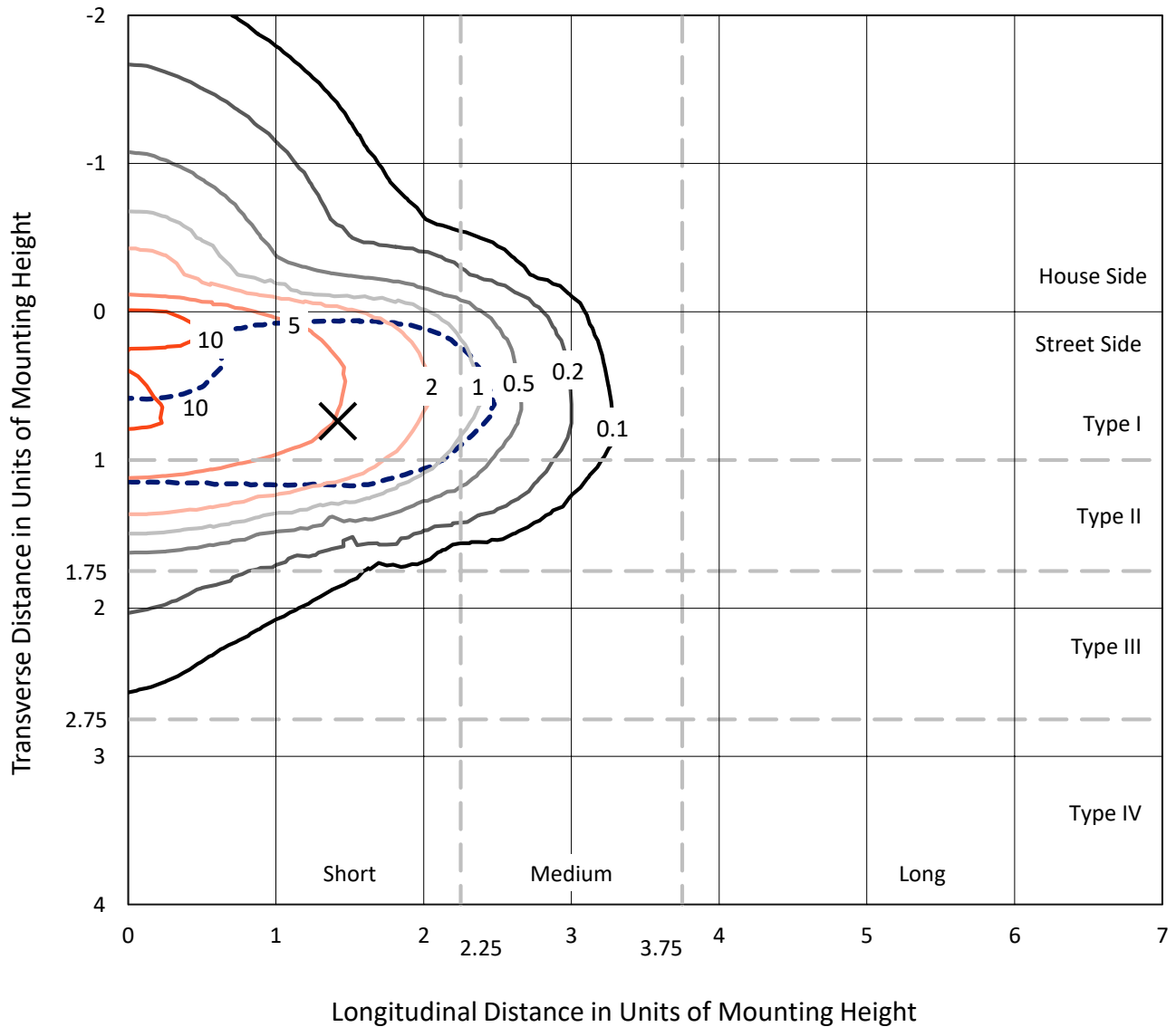
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

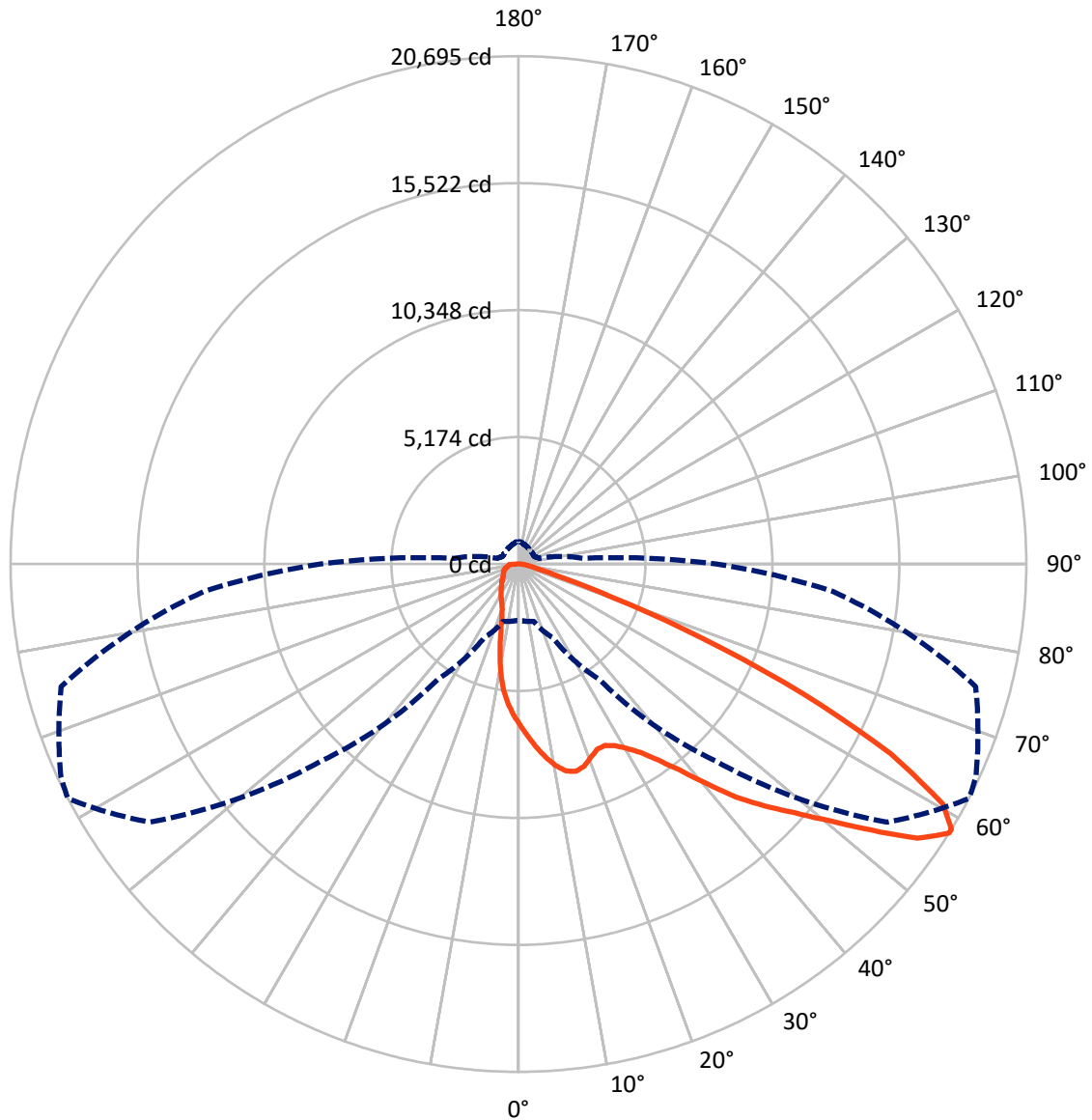
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	3756.8	0.0	3756.8
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	20877.2	0.0	20877.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	24634.0	0.0	24634.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.2	2.4
10°-20°	1495.9	6.1
20°-30°	2418.2	9.8
30°-40°	3838.9	15.6
40°-50°	5617.1	22.8
50°-60°	5875.0	23.8
60°-70°	3471.0	14.1
70°-80°	977.8	4.0
80°-90°	355.0	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°	24634.0	100.0
0°-180°	24634.0	100.0

**Coefficient of Utilization**



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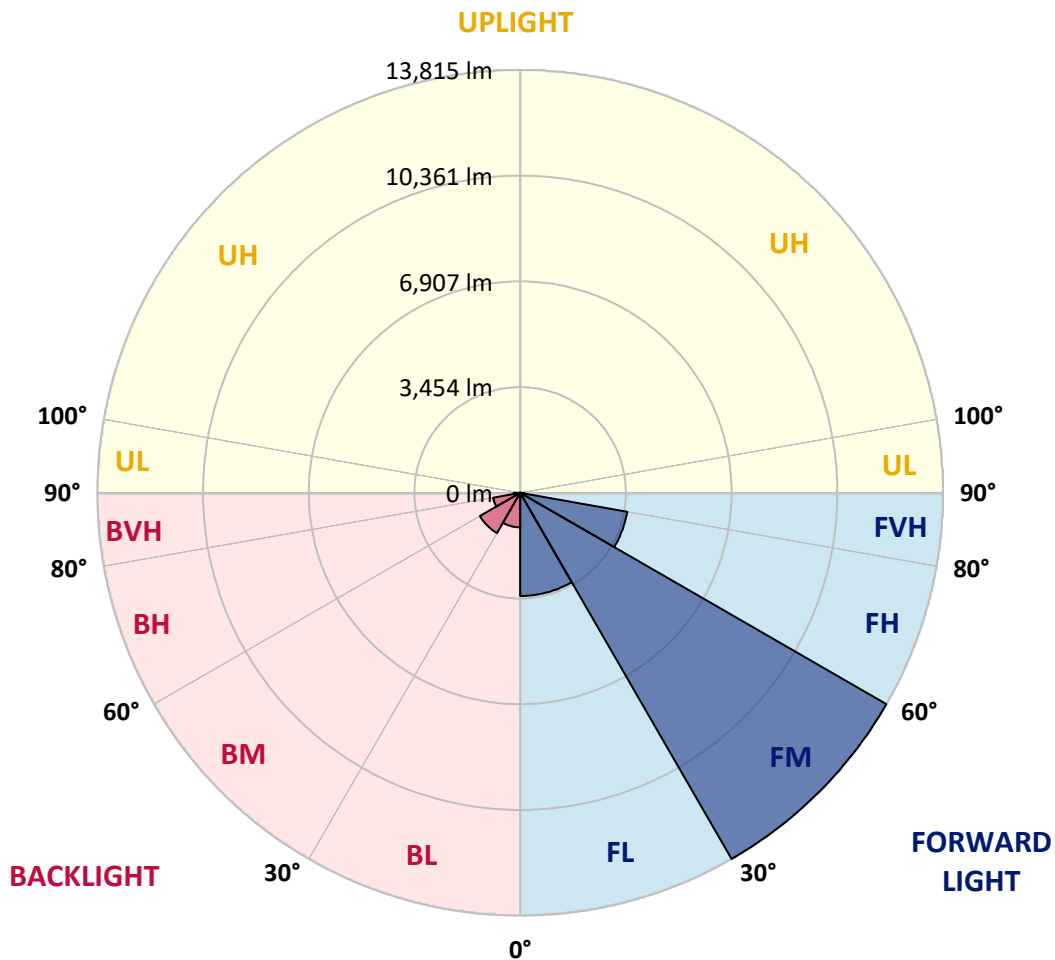
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3370.2	13.7			
FM	(30°-60°)	13814.6	56.1			
FH	(60°-80°)	3552.3	14.4			G2/5000
FVH	(80°-90°)	140.0	0.6			G2/225
BL	(0°-30°)	1129.1	4.6	B3/2500		
BM	(30°-60°)	1516.3	6.2	B2/2500		
BH	(60°-80°)	896.4	3.6	B2/1000		G2/1000
BVH	(80°-90°)	214.9	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6543.5	6543.5	6543.5	6543.5	6543.5	6543.5	6543.5	6543.5	6543.5	6543.5	6543.5
2.5°	7477.3	7417.0	7378.7	7345.1	7301.0	7207.0	7080.6	7000.6	6960.0	6821.9	6658.4
5°	8210.4	8157.1	8117.6	8072.4	7993.5	7846.2	7642.0	7479.6	7399.6	7123.5	6796.4
7.5°	8038.8	8060.8	8129.2	8248.7	8350.8	8331.1	8149.0	7942.5	7836.9	7453.0	6956.5
10°	7004.0	7042.3	7160.6	7440.2	7892.6	8356.6	8498.1	8355.4	8248.7	7778.9	7121.2
12.5°	6796.4	6795.2	6804.5	6878.8	7147.9	7801.0	8509.7	8653.5	8589.7	8089.8	7289.4
15°	6881.1	6883.4	6876.4	6907.8	6991.3	7250.0	8154.8	8768.4	8813.6	8403.0	7463.4
17.5°	7103.8	7098.0	7071.3	7071.3	7101.5	7202.4	7737.2	8661.7	8870.5	8680.2	7616.5
20°	7477.3	7450.6	7379.9	7314.9	7282.4	7337.0	7565.5	8415.7	8771.9	8922.7	7743.0
22.5°	7929.7	7908.8	7794.0	7654.8	7542.3	7541.1	7653.6	8201.2	8601.3	9151.2	7849.7
25°	8514.3	8480.7	8310.2	8087.5	7890.3	7814.9	7846.2	8190.7	8508.5	9399.4	7944.8
27.5°	9201.1	9139.6	8937.7	8616.4	8326.4	8174.5	8129.2	8379.8	8593.2	9706.8	8077.0
30°	10033.9	9963.2	9704.5	9285.7	8876.3	8626.9	8530.6	8715.0	8873.9	10081.5	8289.3
32.5°	10981.7	10879.6	10580.3	10118.6	9580.4	9199.9	9043.3	9158.1	9284.6	10532.7	8554.9
35°	12291.3	12169.5	11736.8	11100.0	10492.1	9969.0	9718.4	9801.9	9924.9	11205.5	8938.9
37.5°	13184.5	13130.0	12842.3	12243.7	11582.5	10980.5	10593.1	10641.8	10711.4	12046.5	9430.7
40°	13176.4	13198.4	13204.2	13210.0	12759.9	12183.4	11767.0	11715.9	11702.0	12969.9	9989.9
42.5°	12516.3	12606.8	12899.1	13491.9	13765.6	13501.2	13119.5	12972.2	12899.1	14058.0	10582.6
45°	11506.0	11554.7	12102.2	13259.9	14280.7	14806.2	14517.3	14053.3	13921.1	15057.9	11074.5
47.5°	10985.1	11038.5	11383.0	12645.1	14274.9	15860.6	16027.6	15143.7	14907.1	15927.9	11499.0
50°	9745.1	9856.5	10290.3	11575.6	13754.0	16345.5	17606.4	16442.9	15953.4	16774.7	11924.7
52.5°	7468.0	7639.7	8125.8	9817.0	12432.8	16105.3	18869.6	18018.2	17326.8	17651.6	12290.1
55°	4710.7	4838.3	5246.6	6933.3	9945.8	14856.0	19348.7	19722.2	19107.4	18482.2	12606.8
57.5°	2561.3	2618.1	2771.2	3828.0	6469.3	12094.1	18650.4	20692.0	20436.8	19187.4	12845.8
58°	2292.1	2330.4	2425.5	3317.6	5737.3	11338.9	18340.6	20695.4	20567.8	19290.7	12864.3
60°	1700.5	1680.8	1596.2	1893.1	3193.5	7833.4	16468.4	19867.2	20241.9	19417.1	12773.8
62.5°	1494.1	1446.5	1273.7	1254.0	1553.2	3608.7	12601.0	17018.3	17903.3	18695.6	12224.0
65°	1403.6	1352.6	1129.8	1057.9	1120.6	1526.6	7422.8	12763.4	13873.5	16507.9	10818.1
67.5°	1336.3	1270.2	1038.2	939.6	944.2	1009.2	2975.4	8038.8	9288.1	12533.7	8414.6
70°	1271.4	1199.4	960.5	846.8	820.1	798.1	1183.2	4024.0	5157.3	7917.0	5365.0
72.5°	1201.8	1131.0	892.0	773.7	721.5	648.4	772.6	1646.0	2299.1	3745.6	2433.7
75°	1100.8	1037.0	823.6	708.8	634.5	537.1	583.5	859.6	1031.2	1491.8	1172.8
77.5°	976.7	924.5	747.0	655.4	562.6	436.2	448.9	596.2	661.2	853.8	697.2
80°	701.8	720.4	664.7	589.3	501.1	353.8	344.5	435.0	469.8	548.7	453.6
82.5°	493.0	503.4	549.8	481.4	414.1	278.4	254.0	306.2	327.1	360.8	244.8
85°	339.9	328.3	377.0	335.2	299.3	185.6	174.0	207.6	220.4	223.9	126.4
87.5°	204.2	204.2	218.1	179.8	161.2	96.3	94.0	118.3	126.4	120.6	69.6
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°	6543.5	6543.5	6543.5	6543.5	6543.5	6543.5	6543.5	6543.5	6543.5	6543.5	6543.5
2.5°	6560.9	6478.6	6303.4	6163.0	5985.6	5801.1	5697.9	5587.7	5512.3	5457.8	5544.8
5°	6610.8	6442.6	6080.7	5737.3	5358.0	4963.6	4664.3	4385.9	4192.2	4071.6	4185.3
7.5°	6689.7	6431.0	5854.5	5267.5	4586.6	3930.1	3343.1	2975.4	2760.8	2655.2	2721.3
10°	6780.2	6412.4	5588.8	4630.7	3656.3	2829.2	2390.7	2242.3	2193.5	2173.8	2183.1
12.5°	6855.6	6373.0	5262.9	3860.5	2745.7	2234.1	2107.7	2104.2	2114.7	2117.0	2120.5
15°	6908.9	6315.0	4779.2	3057.7	2195.9	2035.8	2028.8	2049.7	2069.4	2077.5	2082.2
17.5°	6944.9	6195.5	4232.8	2417.4	1967.3	1939.5	1955.7	1982.4	2003.3	2009.1	2013.7
20°	6941.4	6020.4	3582.1	2016.1	1843.2	1843.2	1871.1	1891.9	1893.1	1886.1	1889.6
22.5°	6905.4	5780.2	2951.0	1802.6	1733.0	1752.7	1780.6	1760.9	1679.7	1626.3	1629.8
25°	6845.1	5493.7	2410.5	1666.9	1631.0	1665.7	1657.6	1509.2	1393.2	1341.0	1341.0
27.5°	6791.8	5155.0	1995.2	1548.6	1528.9	1571.8	1428.0	1293.4	1244.7	1220.3	1212.2
30°	6753.5	4789.6	1717.9	1434.9	1432.6	1401.3	1238.9	1201.8	1193.6	1173.9	1167.0
32.5°	6762.8	4419.6	1540.5	1335.2	1343.3	1199.4	1148.4	1156.5	1149.6	1128.7	1119.4
35°	6839.3	4068.1	1424.5	1244.7	1220.3	1083.4	1095.0	1110.1	1107.8	1078.8	1069.5
37.5°	6976.2	3735.2	1347.9	1169.3	1064.9	1025.4	1044.0	1067.2	1061.4	1041.7	1034.7
40°	7120.0	3422.0	1285.3	1110.1	973.2	986.0	1002.2	1015.0	1020.8	1026.6	1022.0
42.5°	7260.4	3094.9	1208.7	1049.8	935.0	948.9	955.8	968.6	999.9	1022.0	1020.8
45°	7343.9	2787.5	1129.8	964.0	904.8	912.9	908.3	933.8	972.1	1008.0	1009.2
47.5°	7436.7	2548.5	1067.2	885.1	875.8	881.6	867.7	893.2	928.0	972.1	976.7
50°	7549.2	2405.8	1017.3	822.4	836.4	836.4	832.9	856.1	904.8	955.8	965.1
52.5°	7676.8	2378.0	975.6	777.2	796.9	795.8	799.2	834.0	887.4	937.3	945.4
55°	7832.3	2453.4	930.3	743.6	758.6	763.3	774.9	814.3	859.6	916.4	919.9
57.5°	8013.2	2606.5	894.4	716.9	723.8	738.9	757.5	793.4	842.2	904.8	908.3
58°	8043.4	2639.0	888.6	714.6	716.9	734.3	755.2	790.0	838.7	907.1	910.6
60°	8044.6	2746.9	875.8	704.1	690.2	719.2	742.4	777.2	832.9	915.2	923.4
62.5°	7759.2	2745.7	866.5	689.0	662.4	698.3	725.0	765.6	827.1	935.0	951.2
65°	6832.4	2495.1	822.4	665.8	640.3	679.8	709.9	757.5	843.3	1020.8	1031.2
67.5°	5344.1	2045.1	740.1	633.4	611.3	661.2	700.6	756.3	860.7	1040.5	1047.5
70°	3533.3	1530.0	649.6	596.2	581.2	639.2	705.3	795.8	841.0	998.8	980.2
72.5°	1833.9	1074.2	576.5	549.8	546.4	619.4	772.6	791.1	821.3	939.6	916.4
75°	962.8	745.9	512.7	498.8	504.6	614.8	911.8	770.2	795.8	899.0	943.1
77.5°	589.3	602.0	458.2	452.4	464.0	600.9	910.6	743.6	758.6	827.1	875.8
80°	394.4	488.4	416.4	417.6	425.7	549.8	817.8	701.8	713.4	781.8	831.7
82.5°	249.4	288.8	378.2	397.9	387.4	453.6	694.8	639.2	655.4	894.4	945.4
85°	126.4	181.0	328.3	382.8	349.2	317.8	563.8	560.3	568.4	645.0	674.0
87.5°	58.0	99.8	256.4	334.1	263.3	198.4	409.5	415.3	447.8	458.2	458.2
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)