

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: P269298

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269298
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29088.1 lumens
Efficiency: N/A
Efficacy: 90.9 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

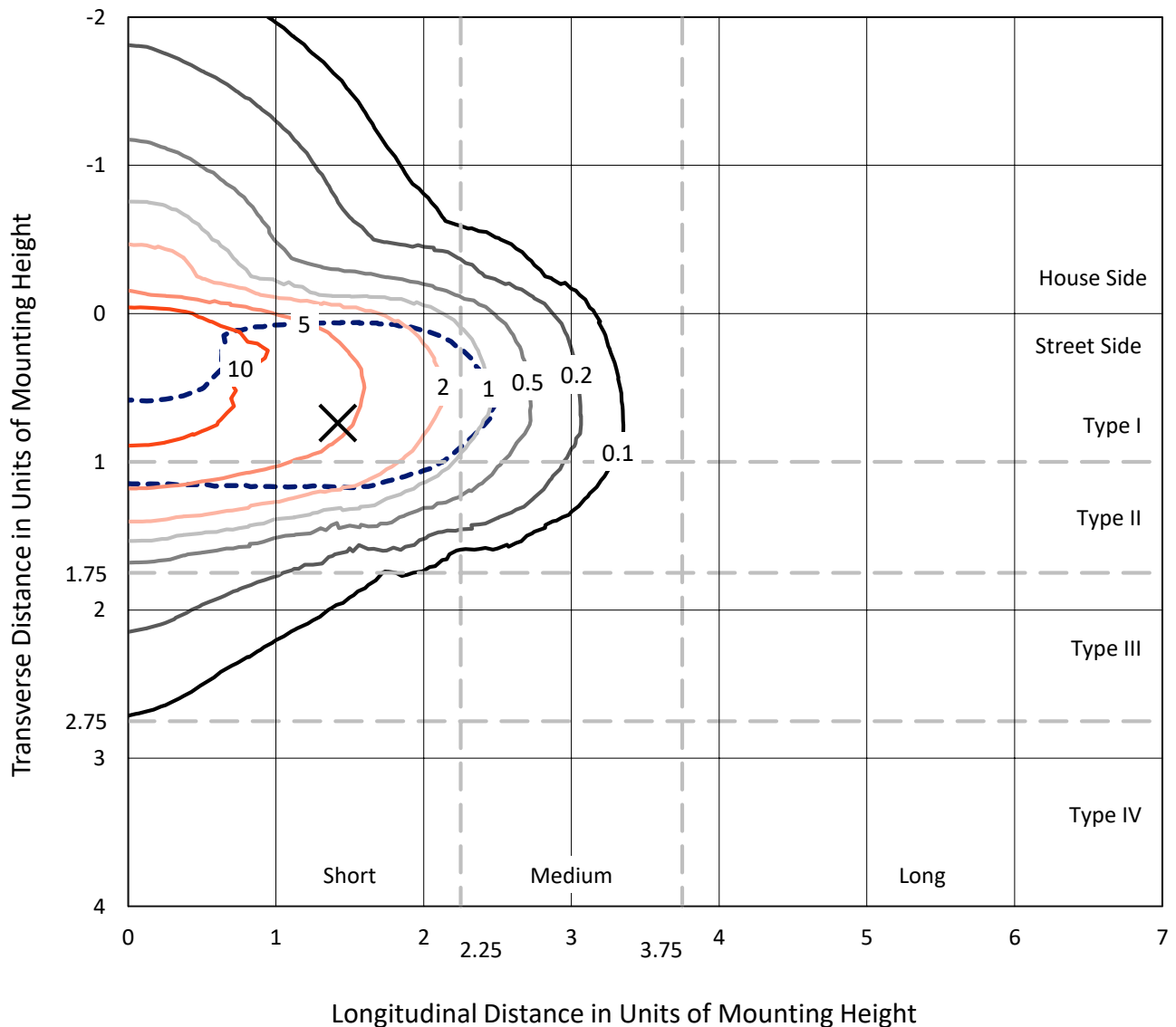


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

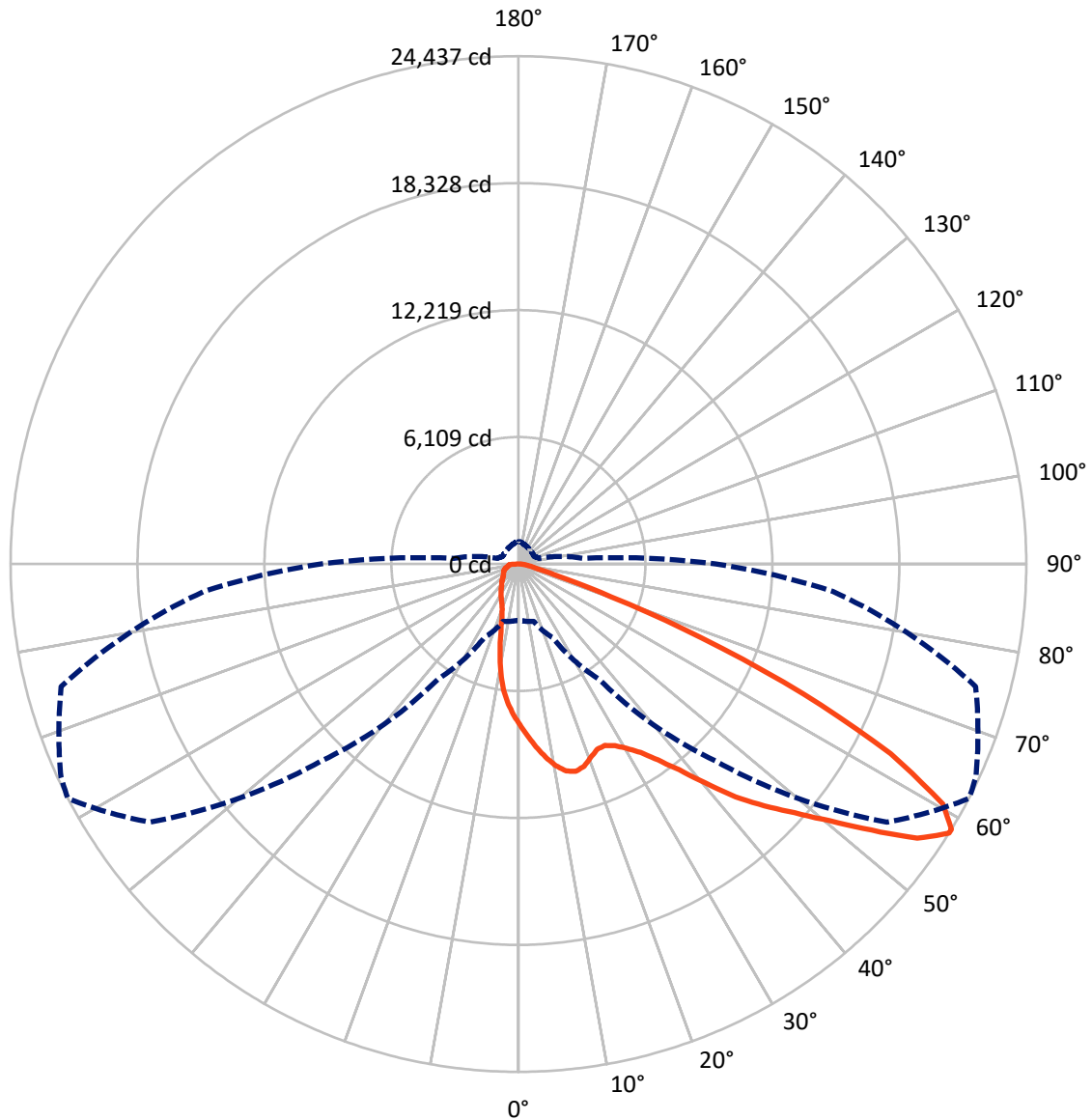


Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - Full Cutoff

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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
House Side	Lumens	4436.0	0.0	4436.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	24652.1	0.0	24652.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	29088.1	0.0	29088.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.0	2.4
10°-20°	1766.4	6.1
20°-30°	2855.4	9.8
30°-40°	4533.0	15.6
40°-50°	6632.7	22.8
50°-60°	6937.3	23.8
60°-70°	4098.5	14.1
70°-80°	1154.6	4.0
80°-90°	419.2	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°	29088.1	100.0
0°-180°	29088.1	100.0



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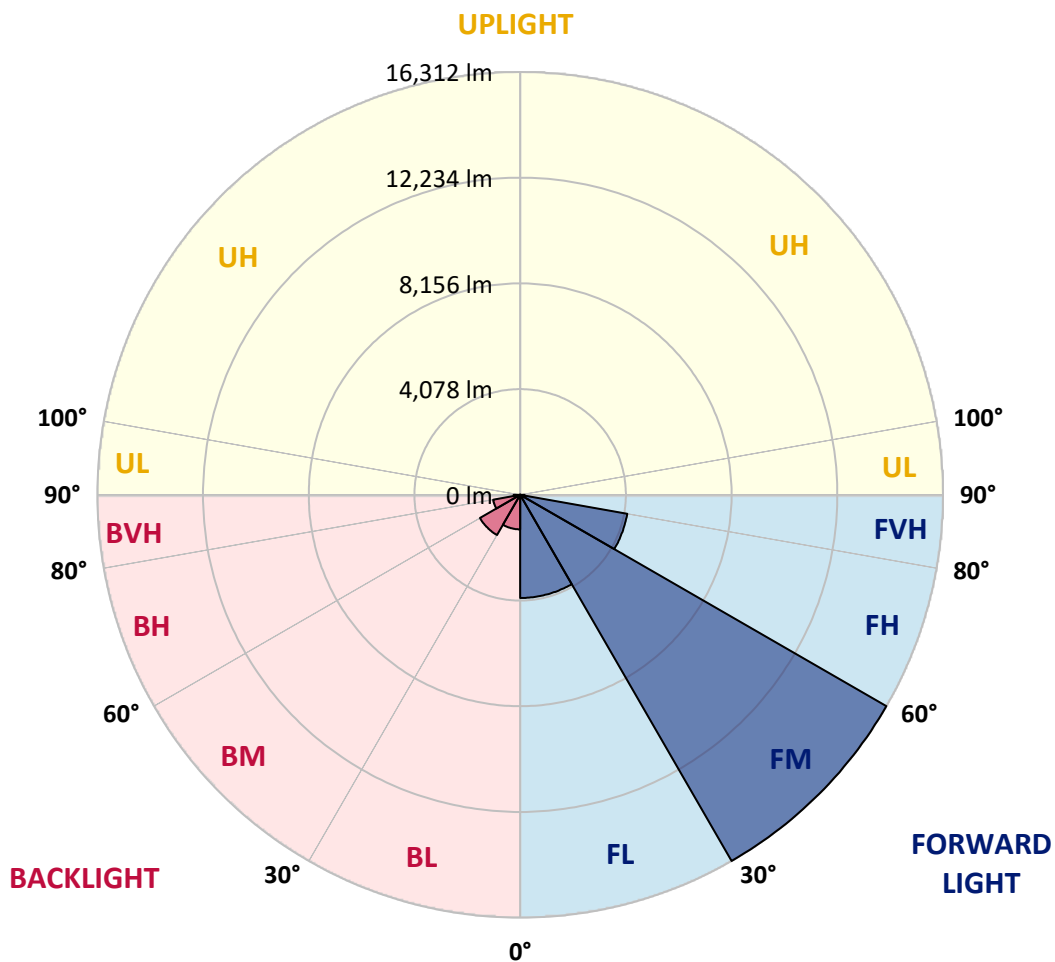
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3979.6	13.7			
FM (30°-60°)	16312.5	56.1			
FH (60°-80°)	4194.6	14.4			G2/5000
FVH (80°-90°)	165.4	0.6			G2/225
BL (0°-30°)	1333.3	4.6	B3/2500		
BM (30°-60°)	1790.5	6.2	B2/2500		
BH (60°-80°)	1058.5	3.6	B3/2500		G3/2500
BVH (80°-90°)	253.8	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°	7726.7	7726.7	7726.7	7726.7	7726.7	7726.7	7726.7	7726.7	7726.7	7726.7	7726.7
2.5°	8829.4	8758.0	8712.9	8673.1	8621.2	8510.2	8360.9	8266.4	8218.5	8055.5	7862.2
5°	9695.0	9631.9	9585.5	9531.9	9438.9	9264.8	9023.8	8832.0	8737.5	8411.5	8025.3
7.5°	9492.3	9518.4	9599.1	9740.2	9860.8	9837.5	9622.4	9378.6	9253.9	8800.5	8214.3
10°	8270.4	8315.7	8455.3	8785.5	9319.6	9867.6	10034.6	9866.3	9740.2	9185.4	8408.9
12.5°	8025.3	8023.9	8034.9	8122.6	8440.4	9211.5	10048.4	10218.2	10142.9	9552.5	8607.4
15°	8125.3	8128.0	8119.8	8156.8	8255.5	8560.8	9629.2	10353.9	10407.3	9922.4	8812.9
17.5°	8388.3	8381.5	8349.9	8349.9	8385.5	8504.8	9136.1	10227.8	10474.3	10249.8	8993.7
20°	8829.4	8797.8	8714.3	8637.6	8599.1	8663.6	8933.5	9937.4	10357.9	10536.0	9142.9
22.5°	9363.6	9338.9	9203.2	9038.8	8906.1	8904.7	9037.5	9684.0	10156.5	10805.8	9269.0
25°	10053.9	10014.1	9812.7	9549.8	9317.0	9227.8	9264.8	9671.7	10047.1	11099.0	9381.3
27.5°	10864.7	10792.1	10553.7	10174.5	9831.9	9652.6	9599.1	9895.0	10147.1	11462.0	9537.5
30°	11848.3	11764.7	11459.1	10964.7	10481.2	10186.7	10073.1	10290.9	10478.5	11904.3	9788.1
32.5°	12967.4	12846.8	12493.4	11948.1	11312.6	10863.4	10678.4	10814.1	10963.4	12437.3	10101.8
35°	14513.7	14369.8	13859.1	13107.0	12389.2	11771.5	11475.7	11574.2	11719.5	13231.7	10555.2
37.5°	15568.4	15504.0	15164.4	14457.5	13676.9	12966.0	12508.4	12565.9	12648.1	14224.8	11136.0
40°	15558.9	15584.9	15591.7	15598.6	15067.1	14386.4	13894.7	13834.3	13817.9	15315.1	11796.2
42.5°	14779.5	14886.4	15231.4	15931.4	16254.7	15942.4	15491.7	15317.8	15231.4	16599.8	12496.1
45°	13586.4	13643.9	14290.4	15657.5	16862.9	17483.4	17142.3	16594.3	16438.3	17780.5	13076.8
47.5°	12971.3	13034.3	13441.2	14931.4	16855.9	18728.5	18925.6	17881.9	17602.5	18807.9	13578.2
50°	11507.2	11638.6	12151.0	13668.6	16240.9	19301.0	20789.8	19416.0	18837.9	19807.7	14080.9
52.5°	8818.3	9021.0	9594.9	11592.1	14680.8	19017.4	22281.5	21276.0	20459.7	20843.3	14512.4
55°	5562.5	5713.2	6195.3	8187.0	11744.1	17542.2	22847.2	23288.2	22562.3	21824.1	14886.4
57.5°	3024.4	3091.4	3272.3	4520.1	7638.9	14280.9	22022.6	24433.4	24132.0	22656.8	15168.5
58°	2706.7	2751.8	2864.2	3917.5	6774.7	13389.1	21656.9	24437.4	24286.8	22778.7	15190.3
60°	2008.0	1984.7	1884.7	2235.4	3770.8	9249.8	19446.1	23459.4	23901.9	22928.0	15083.5
62.5°	1764.2	1708.0	1503.9	1480.6	1834.1	4261.2	14879.4	20095.4	21140.5	22076.0	14434.2
65°	1657.5	1597.0	1334.2	1249.3	1323.2	1802.5	8764.9	15071.3	16382.0	19492.7	12774.2
67.5°	1578.0	1499.9	1225.8	1109.4	1114.9	1191.7	3513.5	9492.3	10967.4	14799.9	9936.1
70°	1501.2	1416.3	1134.1	1000.0	968.5	942.4	1397.1	4751.7	6089.8	9348.4	6335.0
72.5°	1419.1	1335.5	1053.4	913.7	852.0	765.6	912.3	1943.7	2714.8	4422.9	2873.7
75°	1299.8	1224.5	972.5	837.0	749.2	634.3	689.0	1014.9	1217.7	1761.4	1384.7
77.5°	1153.3	1091.7	882.1	773.9	664.3	515.0	530.1	704.0	780.7	1008.1	823.1
80°	828.6	850.7	784.8	695.8	591.8	417.8	406.8	513.7	554.8	647.9	535.6
82.5°	582.1	594.5	649.3	568.4	488.9	328.7	299.9	361.6	386.4	425.9	289.1
85°	401.4	387.6	445.2	395.9	353.5	219.1	205.4	245.1	260.2	264.3	149.3
87.5°	241.0	241.0	257.5	212.3	190.4	113.6	110.9	139.6	149.3	142.4	82.1
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°	7726.7	7726.7	7726.7	7726.7	7726.7	7726.7	7726.7	7726.7	7726.7	7726.7	7726.7
2.5°	7747.3	7650.0	7443.1	7277.3	7067.9	6850.0	6728.1	6598.1	6508.9	6444.6	6547.3
5°	7806.1	7607.6	7180.2	6774.7	6326.9	5861.1	5507.7	5179.0	4950.2	4807.8	4942.0
7.5°	7899.2	7593.8	6913.0	6220.0	5415.9	4640.6	3947.6	3513.5	3259.9	3135.4	3213.3
10°	8006.1	7572.0	6599.4	5468.1	4317.4	3340.7	2823.1	2647.8	2590.2	2566.8	2577.9
12.5°	8095.2	7525.3	6214.5	4558.4	3242.2	2638.1	2488.8	2484.7	2497.0	2499.8	2503.8
15°	8158.1	7456.8	5643.3	3610.6	2592.9	2403.9	2395.7	2420.4	2443.6	2453.2	2458.8
17.5°	8200.5	7315.7	4998.2	2854.5	2323.0	2290.1	2309.4	2340.9	2365.5	2372.3	2377.9
20°	8196.5	7108.9	4229.8	2380.6	2176.6	2176.6	2209.4	2234.1	2235.4	2227.2	2231.3
22.5°	8154.0	6825.4	3484.6	2128.5	2046.3	2069.7	2102.6	2079.2	1983.4	1920.3	1924.4
25°	8082.8	6487.1	2846.3	1968.2	1925.8	1967.0	1957.3	1782.0	1645.1	1583.4	1583.4
27.5°	8019.8	6087.2	2356.0	1828.6	1805.4	1856.0	1686.2	1527.3	1469.7	1440.9	1431.4
30°	7974.7	5655.5	2028.6	1694.4	1691.6	1654.7	1462.9	1419.1	1409.5	1386.2	1378.0
32.5°	7985.6	5218.8	1819.0	1576.5	1586.1	1416.3	1356.0	1365.7	1357.3	1332.7	1321.8
35°	8075.9	4803.6	1682.0	1469.7	1440.9	1279.4	1293.0	1310.8	1308.1	1273.8	1262.8
37.5°	8237.5	4410.6	1591.6	1380.7	1257.4	1210.8	1232.7	1260.1	1253.3	1230.0	1221.9
40°	8407.4	4040.8	1517.6	1310.8	1149.2	1164.3	1183.4	1198.5	1205.3	1212.3	1206.8
42.5°	8573.2	3654.5	1427.2	1239.7	1103.9	1120.5	1128.7	1143.7	1180.7	1206.8	1205.3
45°	8671.8	3291.5	1334.2	1138.2	1068.4	1078.0	1072.4	1102.6	1147.9	1190.3	1191.7
47.5°	8781.4	3009.3	1260.1	1045.1	1034.2	1041.0	1024.5	1054.7	1095.8	1147.9	1153.3
50°	8914.2	2840.8	1201.3	971.2	987.5	987.5	983.5	1010.9	1068.4	1128.7	1139.6
52.5°	9064.8	2807.9	1151.9	917.7	941.1	939.6	943.8	984.8	1047.9	1106.7	1116.4
55°	9248.5	2897.0	1098.5	878.1	895.8	901.3	915.0	961.5	1014.9	1082.1	1086.2
57.5°	9462.1	3077.9	1056.0	846.6	854.6	872.6	894.4	936.9	994.5	1068.4	1072.4
58°	9497.8	3116.1	1049.2	843.8	846.6	867.0	891.7	932.8	990.3	1071.0	1075.2
60°	9499.0	3243.5	1034.2	831.4	815.0	849.3	876.7	917.7	983.5	1080.8	1090.4
62.5°	9162.2	3242.2	1023.2	813.7	782.2	824.6	856.1	904.1	976.5	1103.9	1123.2
65°	8067.8	2946.4	971.2	786.2	756.2	802.6	838.3	894.4	995.9	1205.3	1217.7
67.5°	6310.4	2414.9	874.0	747.8	721.9	780.7	827.2	893.0	1016.3	1228.6	1236.8
70°	4172.2	1806.8	767.1	704.0	686.2	754.8	832.8	939.6	993.0	1179.4	1157.5
72.5°	2165.5	1268.3	680.7	649.3	645.2	731.4	912.3	934.1	969.8	1109.4	1082.1
75°	1136.8	880.8	605.4	589.0	595.8	726.0	1076.6	909.5	939.6	1061.5	1113.5
77.5°	695.8	710.9	541.0	534.2	547.8	709.5	1075.2	878.1	895.8	976.5	1034.2
80°	465.7	576.6	491.7	493.1	502.7	649.3	965.7	828.6	842.4	923.2	982.0
82.5°	294.5	341.0	446.5	469.9	457.4	535.6	820.5	754.8	773.9	1056.0	1116.4
85°	149.3	213.6	387.6	451.9	412.3	375.3	665.7	661.6	671.2	761.6	795.8
87.5°	68.5	117.8	302.6	394.4	311.0	234.2	483.5	490.4	528.7	541.0	541.0
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)