

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: P191767

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191767
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44108 lumens
Efficiency: N/A
Efficacy: 117.9 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): 374
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

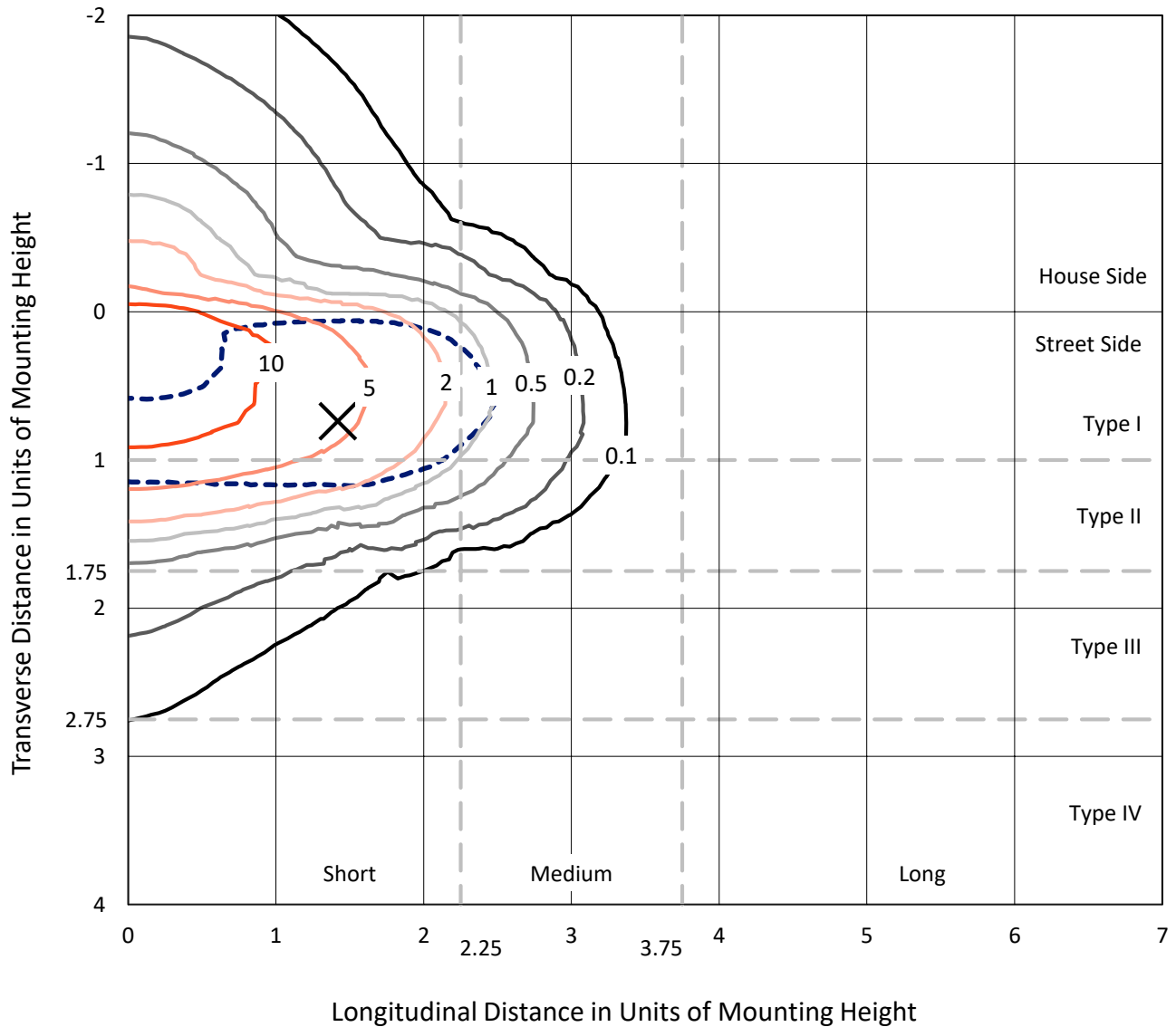


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Iso-Footcandle Lines of Horizontal Illumination

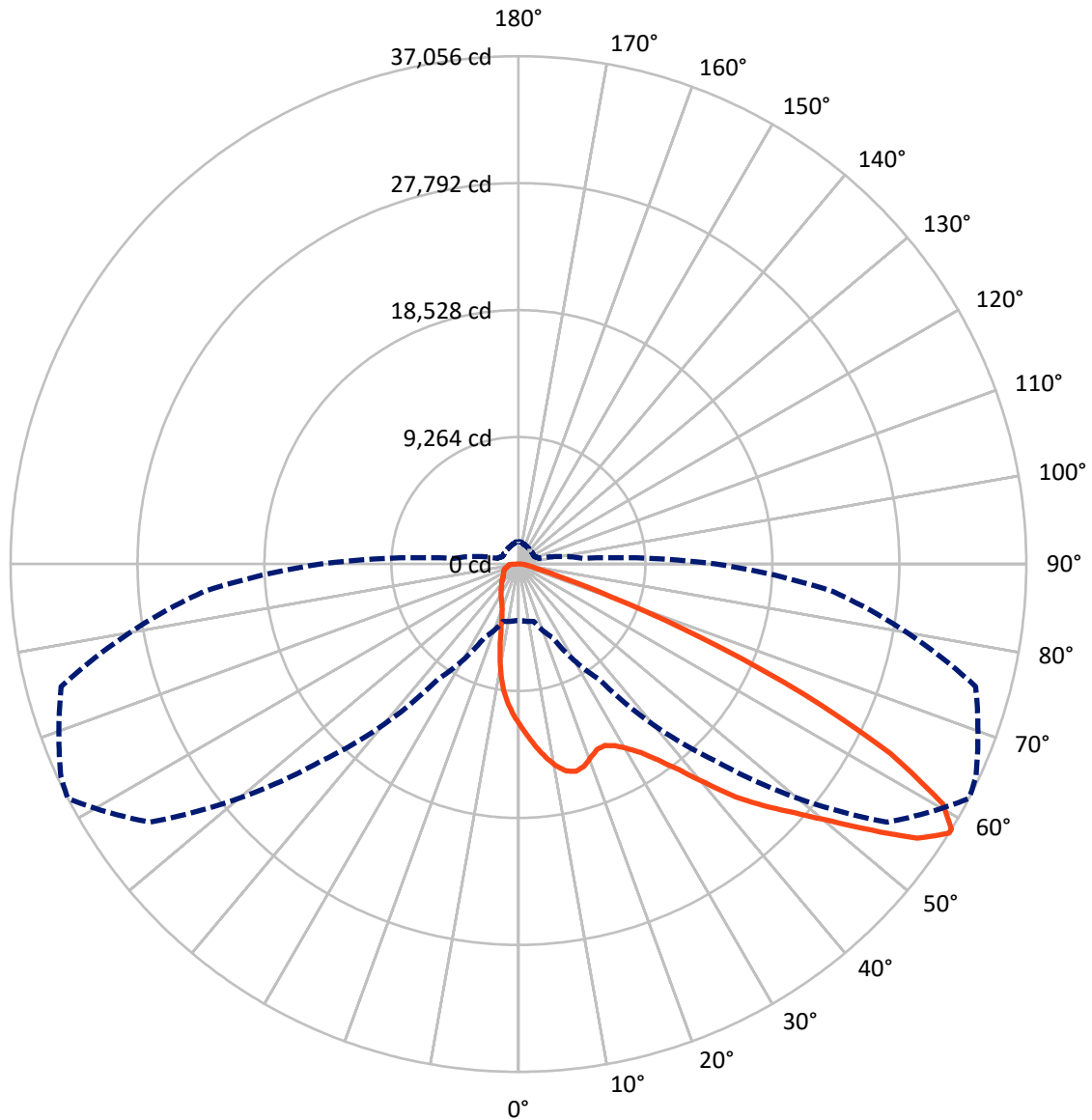
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.9 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	6726.6	0.0	6726.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	37381.4	0.0	37381.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	44108.0	0.0	44108.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1047.9	2.4
10°-20°	2678.5	6.1
20°-30°	4329.9	9.8
30°-40°	6873.6	15.6
40°-50°	10057.6	22.8
50°-60°	10519.4	23.8
60°-70°	6214.8	14.1
70°-80°	1750.8	4.0
80°-90°	635.6	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°	44108.0	100.0
0°-180°	44108.0	100.0



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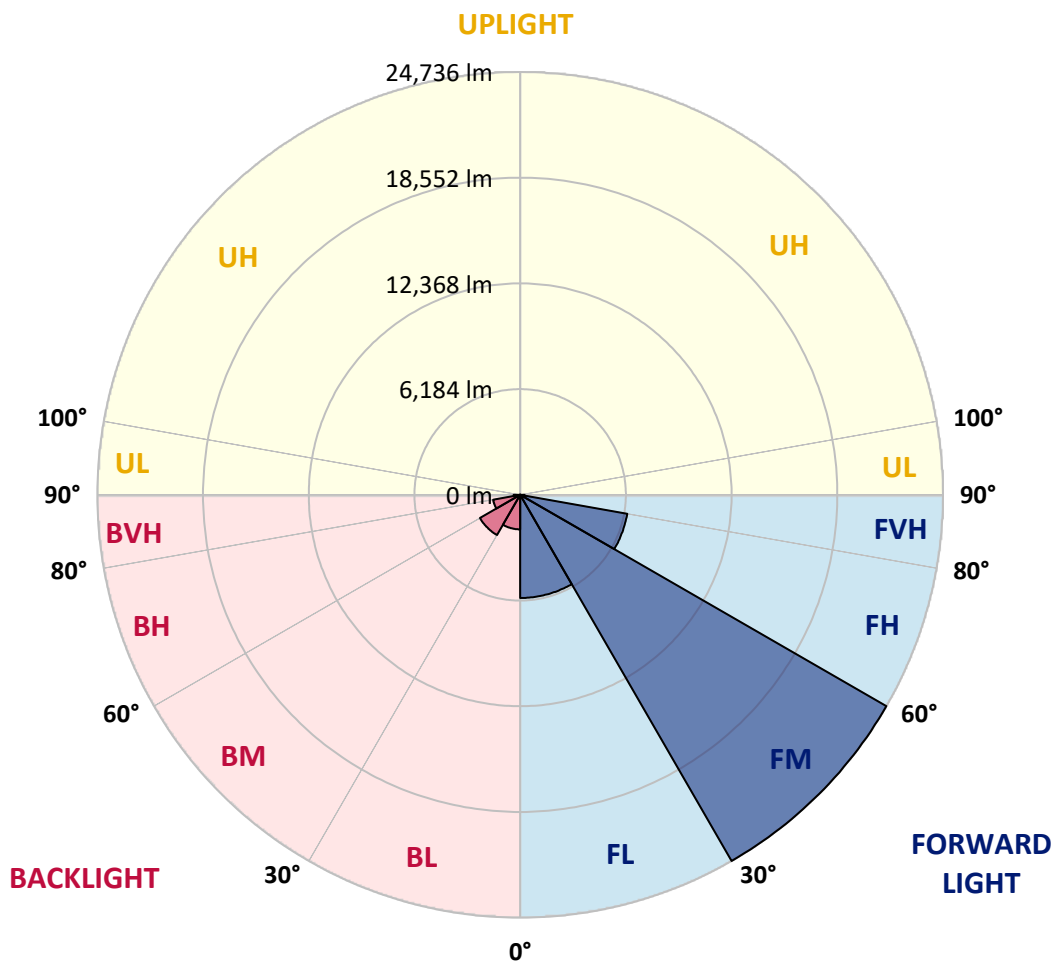
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6034.5	13.7			
FM (30°-60°)	24735.5	56.1			
FH (60°-80°)	6360.6	14.4			G3/7500
FVH (80°-90°)	250.8	0.6			G3/500
BL (0°-30°)	2021.7	4.6	B3/2500		
BM (30°-60°)	2715.0	6.2	B3/5000		
BH (60°-80°)	1605.0	3.6	B3/2500		G3/2500
BVH (80°-90°)	384.9	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°	11716.4	11716.4	11716.4	11716.4	11716.4	11716.4	11716.4	11716.4	11716.4	11716.4	11716.4
2.5°	13388.4	13280.4	13211.8	13151.6	13072.7	12904.4	12678.0	12534.7	12462.0	12214.9	11922.0
5°	14701.0	14605.5	14534.9	14453.9	14312.6	14048.9	13683.3	13392.5	13249.2	12754.9	12169.2
7.5°	14393.7	14433.1	14555.7	14769.6	14952.4	14917.1	14591.0	14221.3	14032.3	13344.8	12455.8
10°	12541.0	12609.5	12821.4	13321.9	14132.0	14962.8	15216.1	14960.7	14769.6	13928.4	12750.7
12.5°	12169.2	12167.1	12183.7	12316.6	12798.5	13967.9	15236.9	15494.5	15380.2	14485.0	13051.9
15°	12320.8	12325.0	12312.5	12368.6	12518.1	12981.3	14601.4	15700.1	15781.1	15045.8	13363.5
17.5°	12719.6	12709.2	12661.4	12661.4	12715.4	12896.1	13853.6	15509.0	15882.9	15542.2	13637.6
20°	13388.4	13340.6	13213.9	13097.6	13039.4	13137.1	13546.2	15068.7	15706.3	15976.3	13864.0
22.5°	14198.4	14161.0	13955.4	13706.2	13504.7	13502.6	13704.1	14684.4	15401.0	16385.5	14055.1
25°	15245.2	15185.0	14879.7	14480.9	14127.8	13992.8	14048.9	14665.7	15234.8	16830.0	14225.4
27.5°	16474.8	16364.7	16003.3	15428.0	14908.8	14636.7	14555.7	15004.3	15386.5	17380.4	14462.2
30°	17966.1	17839.4	17376.2	16626.4	15893.3	15446.7	15274.3	15604.5	15889.1	18051.3	14842.3
32.5°	19663.0	19480.2	18944.4	18117.7	17154.0	16472.7	16192.3	16398.0	16624.4	18859.2	15317.9
35°	22008.0	21789.9	21015.1	19874.9	18786.5	17849.8	17401.2	17550.7	17770.9	20063.9	16005.4
37.5°	23607.3	23509.6	22994.5	21922.8	20738.9	19660.9	18967.2	19054.5	19179.1	21569.7	16886.1
40°	23592.7	23632.2	23642.6	23652.9	22847.1	21814.8	21069.2	20977.8	20952.8	23223.0	17887.2
42.5°	22410.9	22572.9	23096.3	24157.7	24647.8	24174.3	23490.9	23227.2	23096.3	25171.2	18948.5
45°	20601.8	20689.1	21669.4	23742.3	25570.0	26510.9	25993.7	25162.9	24926.2	26961.6	19829.2
47.5°	19669.2	19764.8	20381.7	22641.4	25559.6	28398.9	28698.0	27115.3	26691.6	28519.4	20589.4
50°	17448.9	17648.3	18425.1	20726.4	24627.1	29267.1	31524.8	29441.6	28565.1	30035.6	21351.6
52.5°	13371.8	13679.2	14549.4	17577.7	22261.4	28837.2	33786.7	32262.1	31024.2	31605.8	22005.9
55°	8434.7	8663.2	9394.3	12414.3	17808.3	26600.2	34644.5	35313.3	34212.4	33092.9	22572.9
57.5°	4586.0	4687.8	4962.0	6854.1	11583.5	21654.9	33394.1	37049.6	36592.7	34355.8	23000.8
58°	4104.2	4172.7	4343.0	5940.2	10272.9	20302.7	32839.5	37055.9	36827.4	34540.6	23034.0
60°	3044.9	3009.6	2858.0	3389.7	5718.0	14026.0	29487.3	35572.9	36243.8	34767.0	22872.0
62.5°	2675.2	2590.0	2280.6	2245.2	2781.1	6461.6	22562.5	30471.8	32056.5	33475.1	21887.5
65°	2513.2	2421.8	2023.0	1894.2	2006.4	2733.3	13290.8	22853.3	24841.0	29557.9	19370.2
67.5°	2392.7	2274.3	1858.9	1682.4	1690.7	1807.0	5327.5	14393.7	16630.6	22442.1	15066.6
70°	2276.4	2147.6	1719.8	1516.2	1468.4	1429.0	2118.5	7205.1	9234.4	14175.6	9606.2
72.5°	2151.8	2025.1	1597.2	1385.4	1291.9	1161.0	1383.3	2947.3	4116.6	6706.7	4357.6
75°	1971.1	1856.8	1474.7	1269.1	1136.1	961.7	1044.7	1539.1	1846.5	2671.0	2099.9
77.5°	1748.8	1655.4	1337.6	1173.5	1007.3	781.0	803.8	1067.6	1183.9	1528.7	1248.3
80°	1256.6	1289.8	1190.1	1055.1	897.3	633.5	616.9	778.9	841.2	982.4	812.1
82.5°	882.7	901.4	984.5	862.0	741.5	498.5	454.9	548.3	585.7	645.9	438.2
85°	608.6	587.8	675.0	600.3	535.9	332.3	311.6	371.8	394.6	400.9	226.4
87.5°	365.6	365.6	390.5	321.9	288.7	172.4	168.2	211.9	226.4	216.0	124.6
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°	11716.4	11716.4	11716.4	11716.4	11716.4	11716.4	11716.4	11716.4	11716.4	11716.4	11716.4
2.5°	11747.5	11600.1	11286.5	11035.1	10717.4	10387.1	10202.3	10004.9	9869.9	9772.3	9928.1
5°	11836.9	11535.7	10887.7	10272.9	9593.7	8887.5	8351.6	7853.2	7506.3	7290.3	7493.8
7.5°	11978.1	11514.9	10482.7	9431.7	8212.5	7036.9	5985.9	5327.5	4943.3	4754.3	4872.7
10°	12140.1	11481.7	10007.0	8291.4	6546.7	5065.8	4280.7	4014.9	3927.6	3892.3	3908.9
12.5°	12275.1	11411.1	9423.4	6912.3	4916.3	4000.3	3773.9	3767.7	3786.4	3790.5	3796.8
15°	12370.6	11307.2	8557.3	5475.0	3931.8	3645.1	3632.7	3670.1	3705.4	3719.9	3728.2
17.5°	12435.0	11093.3	7579.0	4328.5	3522.6	3472.8	3501.8	3549.6	3587.0	3597.4	3605.7
20°	12428.8	10779.7	6413.8	3609.8	3300.4	3300.4	3350.2	3387.6	3389.7	3377.2	3383.4
22.5°	12364.4	10349.7	5283.9	3227.7	3103.0	3138.4	3188.2	3152.9	3007.5	2912.0	2918.2
25°	12256.4	9836.7	4316.0	2984.7	2920.3	2982.6	2968.0	2702.2	2494.5	2401.0	2401.0
27.5°	12160.9	9230.2	3572.5	2772.8	2737.5	2814.3	2556.8	2315.9	2228.6	2185.0	2170.5
30°	12092.3	8576.0	3076.0	2569.3	2565.1	2509.0	2218.2	2151.8	2137.2	2101.9	2089.5
32.5°	12108.9	7913.4	2758.3	2390.6	2405.2	2147.6	2056.2	2070.8	2058.3	2020.9	2004.3
35°	12246.0	7284.1	2550.6	2228.6	2185.0	1939.9	1960.7	1987.7	1983.5	1931.6	1915.0
37.5°	12491.1	6688.0	2413.5	2093.6	1906.7	1836.1	1869.3	1910.8	1900.5	1865.2	1852.7
40°	12748.7	6127.2	2301.3	1987.7	1742.6	1765.5	1794.5	1817.4	1827.8	1838.2	1829.8
42.5°	13000.0	5541.5	2164.2	1879.7	1674.1	1699.0	1711.5	1734.3	1790.4	1829.8	1827.8
45°	13149.5	4991.0	2023.0	1726.0	1620.1	1634.6	1626.3	1672.0	1740.5	1804.9	1807.0
47.5°	13315.7	4563.2	1910.8	1584.8	1568.1	1578.5	1553.6	1599.3	1661.6	1740.5	1748.8
50°	13517.2	4307.7	1821.5	1472.6	1497.5	1497.5	1491.3	1532.8	1620.1	1711.5	1728.1
52.5°	13745.6	4257.9	1746.8	1391.6	1426.9	1424.8	1431.1	1493.4	1588.9	1678.2	1692.8
55°	14023.9	4392.9	1665.8	1331.4	1358.4	1366.7	1387.4	1458.1	1539.1	1640.8	1647.1
57.5°	14348.0	4667.0	1601.4	1283.6	1296.1	1323.1	1356.3	1420.7	1507.9	1620.1	1626.3
58°	14402.0	4725.2	1591.0	1279.4	1283.6	1314.7	1352.1	1414.4	1501.7	1624.2	1630.4
60°	14404.0	4918.4	1568.1	1260.7	1235.8	1287.7	1329.3	1391.6	1491.3	1638.8	1653.3
62.5°	13893.1	4916.3	1551.5	1233.7	1186.0	1250.4	1298.1	1370.8	1480.9	1674.1	1703.1
65°	12233.6	4467.6	1472.6	1192.2	1146.5	1217.1	1271.1	1356.3	1510.0	1827.8	1846.5
67.5°	9568.8	3661.8	1325.1	1134.0	1094.6	1183.9	1254.5	1354.2	1541.1	1863.1	1875.5
70°	6326.6	2739.6	1163.1	1067.6	1040.6	1144.4	1262.8	1424.8	1505.8	1788.3	1755.1
72.5°	3283.7	1923.3	1032.3	984.5	978.3	1109.1	1383.3	1416.5	1470.5	1682.4	1640.8
75°	1723.9	1335.5	918.0	893.1	903.5	1100.8	1632.5	1379.1	1424.8	1609.7	1688.6
77.5°	1055.1	1078.0	820.4	810.0	830.8	1075.9	1630.4	1331.4	1358.4	1480.9	1568.1
80°	706.2	874.4	745.6	747.7	762.3	984.5	1464.3	1256.6	1277.4	1399.9	1489.2
82.5°	446.6	517.2	677.1	712.4	693.7	812.1	1244.1	1144.4	1173.5	1601.4	1692.8
85°	226.4	324.0	587.8	685.4	625.2	569.1	1009.4	1003.2	1017.7	1154.8	1206.7
87.5°	103.9	178.6	459.0	598.2	471.5	355.2	733.2	743.6	801.7	820.4	820.4
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)