

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: P194077

Luminaire Tested: **GLEON-AF-09-LED-E1-T4FT-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43684 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

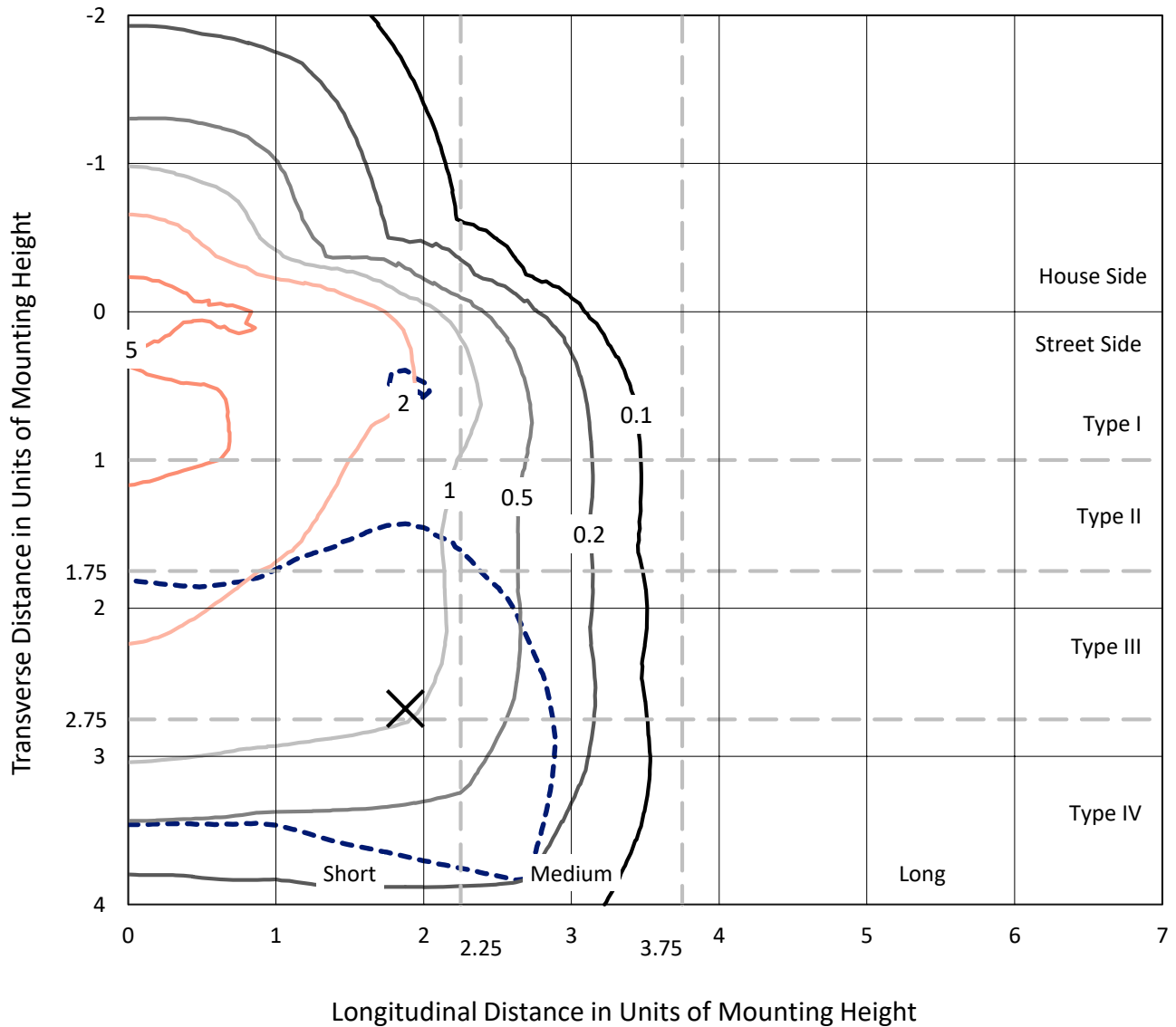
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P194077
 CATALOG NUMBER: GLEON-AF-09-LED-E1-T4FT-8030

Iso-Footcandle Lines of Horizontal Illumination

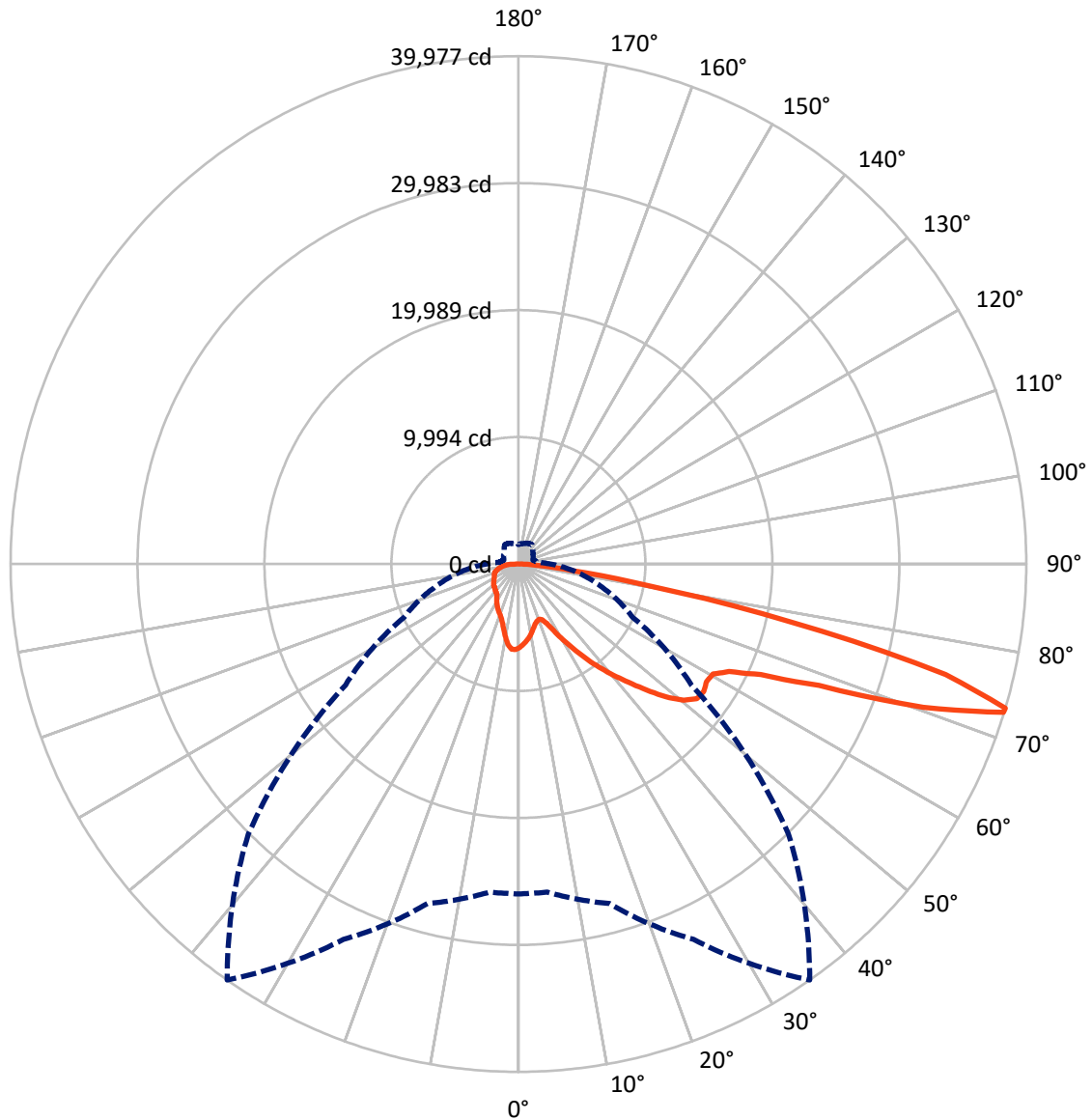
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P194077
CATALOG NUMBER: GLEON-AF-09-LED-E1-T4FT-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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CATALOG NUMBER: GLEON-AF-09-LED-E1-T4FT-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8331.7	0.0	8331.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	35352.3	0.0	35352.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	43684.0	0.0	43684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.9	1.4
10°-20°	1489.7	3.4
20°-30°	2408.3	5.5
30°-40°	4038.5	9.2
40°-50°	6225.1	14.3
50°-60°	8351.7	19.1
60°-70°	11126.1	25.5
70°-80°	8485.8	19.4
80°-90°	961.8	2.2
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°	43684.0	100.0
0°-180°	43684.0	100.0

Coefficient of Utilization



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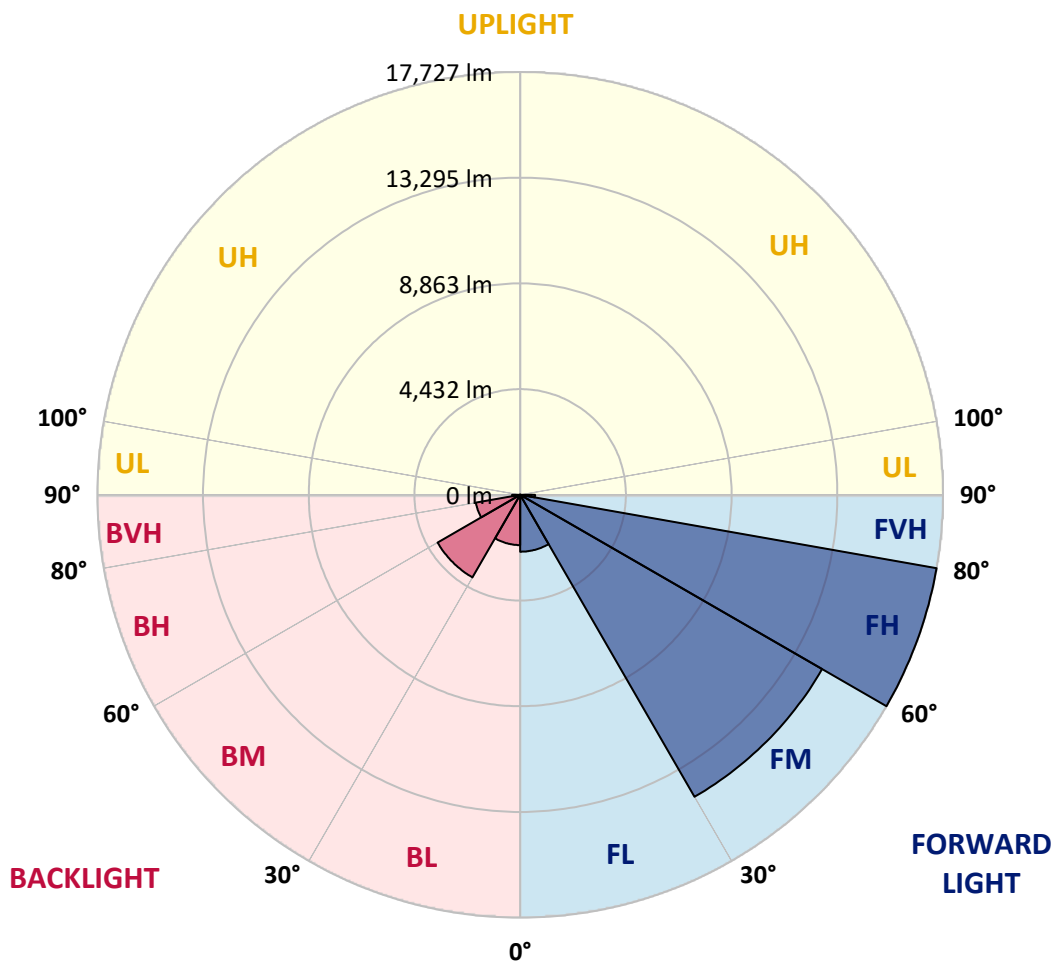
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2386.6	5.5			
FM	(30°-60°)	14616.9	33.5			
FH	(60°-80°)	17727.0	40.6			G5
FVH	(80°-90°)	621.7	1.4			G4/750
BL	(0°-30°)	2108.3	4.8	B3/2500		
BM	(30°-60°)	3998.3	9.2	B3/5000		
BH	(60°-80°)	1885.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	340.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P194077

CATALOG NUMBER: GLEON-AF-09-LED-E1-T4FT-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6593.3	6593.3	6593.3	6593.3	6593.3	6593.3	6593.3	6593.3	6593.3	6593.3	6593.3
2.5°	6333.1	6345.7	6331.1	6349.9	6381.4	6415.0	6438.0	6471.6	6509.4	6561.8	6574.4
5°	6035.3	6054.1	6054.1	6087.7	6148.5	6203.1	6253.4	6308.0	6387.7	6477.9	6513.6
7.5°	5708.0	5718.5	5737.4	5787.7	5875.8	5953.5	6024.8	6112.9	6222.0	6341.5	6404.5
10°	5313.6	5328.3	5357.7	5429.0	5548.6	5655.6	5758.4	5880.0	6018.5	6167.4	6247.1
12.5°	5034.6	5030.4	5043.0	5095.5	5200.4	5330.4	5479.4	5634.6	5804.5	5978.6	6075.1
15°	4940.2	4917.2	4868.9	4856.3	4913.0	5043.0	5215.0	5405.9	5609.4	5819.2	5938.8
17.5°	4999.0	4959.1	4827.0	4730.5	4722.1	4820.7	5003.2	5217.1	5452.1	5708.0	5857.0
20°	5368.2	5273.8	4948.6	4724.2	4646.5	4694.8	4854.2	5080.8	5357.7	5697.5	5888.4
22.5°	6251.3	6112.9	5422.7	5005.3	4743.0	4684.3	4803.9	5045.1	5368.2	5827.6	6070.9
25°	7537.3	7340.1	6236.7	5705.9	5164.7	4852.1	4879.4	5126.9	5517.1	6129.7	6423.4
27.5°	8552.6	8424.6	7300.2	6694.0	5932.5	5305.2	5124.8	5332.5	5821.3	6624.7	6924.7
30°	9156.7	9079.1	8437.2	7814.2	6912.1	6026.9	5594.7	5718.5	6297.5	7310.7	7558.2
32.5°	9857.4	9811.2	9496.6	8923.9	7969.4	6975.1	6339.4	6295.4	6935.2	8135.1	8248.4
35°	10583.2	10568.5	10383.9	9972.8	9104.3	8225.3	7327.5	7029.6	7629.6	8991.0	8919.7
37.5°	11258.7	11233.5	11126.5	10887.4	10291.6	9567.9	8334.4	7782.7	8378.5	9809.1	9492.4
40°	12502.7	12305.5	11938.4	11758.0	11491.6	10698.6	9133.7	8485.5	9154.6	10589.5	9987.5
42.5°	14019.4	13698.4	13014.5	12767.0	12729.2	11590.1	9679.1	9167.2	9937.1	11363.6	10474.1
45°	15213.0	14910.9	14321.4	14008.9	14147.3	12397.8	10226.6	9895.2	10742.7	12175.4	10975.5
47.5°	16486.3	16012.2	15231.9	15326.3	15628.3	13161.4	10784.6	10677.6	11625.8	13083.8	11598.5
50°	16532.5	16169.6	15827.6	16391.9	16861.8	13864.1	11483.2	11497.8	12706.2	14227.0	12427.2
52.5°	15573.8	15496.2	16039.5	16926.9	17604.4	14420.0	12278.2	12345.3	14088.6	15540.2	13337.6
55°	15238.2	15150.1	15777.3	16740.2	17705.1	14879.4	13140.4	13262.1	15760.5	16924.8	14224.9
57.5°	16056.3	15861.2	15903.1	16652.1	17459.7	15382.9	14080.2	14325.6	17577.2	18135.2	14795.5
60°	18342.8	17925.4	17132.4	17113.6	17591.8	16138.1	15166.8	15466.8	19465.2	18714.2	14573.2
62.5°	21550.3	21132.9	19647.7	18680.6	18609.3	17384.2	16501.0	16580.7	20556.0	17929.6	13215.9
65°	25022.1	24648.7	22989.4	21623.8	20965.1	19448.4	18051.3	17077.9	20199.4	15771.0	10841.2
67.5°	29236.5	28835.9	27409.4	26148.6	25515.1	22779.6	19140.0	16601.7	17935.9	12217.4	7793.2
70°	32183.9	31774.8	31212.6	32234.2	33784.5	27585.6	19280.6	14665.5	13396.3	8120.4	4690.6
72.5°	28338.7	28147.8	29173.6	33476.1	39933.0	30501.5	17428.2	10677.6	7780.6	4310.9	2714.5
73°	25964.0	25922.1	27671.6	32605.5	39977.1	30052.6	16616.4	9924.5	6673.0	3813.7	2481.7
75°	11724.4	12062.1	15896.9	24904.7	34732.7	24764.1	11695.0	5693.3	3769.7	2634.8	1873.3
77.5°	2817.3	2934.8	4973.8	11827.2	21934.2	14757.8	5299.0	2815.2	2410.3	1860.7	1367.7
80°	1199.9	1239.8	1915.3	4369.6	10327.3	5943.0	2441.8	1885.9	1667.7	1298.5	958.7
82.5°	667.1	709.0	1086.6	1982.4	4168.3	2026.4	1489.4	1313.2	1097.1	782.5	623.0
85°	377.6	400.7	635.6	1107.6	1766.3	813.9	891.5	872.7	618.8	402.8	306.3
87.5°	178.3	193.0	306.3	514.0	692.3	318.9	453.1	499.3	388.1	245.4	159.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6593.3	6593.3	6593.3	6593.3	6593.3	6593.3	6593.3	6593.3	6593.3	6593.3
2.5°	6589.1	6626.8	6670.9	6694.0	6714.9	6740.1	6765.3	6765.3	6769.5	6771.6
5°	6542.9	6620.5	6689.8	6719.1	6725.4	6725.4	6719.1	6685.6	6656.2	6668.8
7.5°	6446.4	6559.7	6618.4	6608.0	6528.2	6435.9	6358.3	6263.9	6215.7	6207.3
10°	6308.0	6438.0	6448.5	6343.6	6146.4	5949.3	5785.6	5626.2	5550.7	5531.8
12.5°	6154.8	6274.4	6207.3	5991.2	5674.5	5387.1	5179.4	5017.9	4946.5	4927.6
15°	6031.1	6112.9	5943.0	5603.1	5204.6	4900.4	4728.4	4608.8	4558.4	4543.8
17.5°	5966.0	5982.8	5672.4	5212.9	4789.2	4535.4	4428.4	4371.7	4352.9	4342.4
20°	5997.5	5880.0	5414.3	4850.0	4449.4	4271.0	4245.9	4231.2	4227.0	4220.7
22.5°	6154.8	5848.6	5177.3	4506.0	4151.5	4073.9	4094.8	4092.7	4088.5	4084.3
25°	6435.9	5875.8	4946.5	4178.7	3901.8	3885.1	3922.8	3922.8	3906.0	3906.0
27.5°	6807.2	5932.5	4688.5	3868.3	3675.3	3677.4	3706.7	3698.4	3679.5	3666.9
30°	7260.4	5968.1	4386.4	3589.3	3463.4	3455.0	3463.4	3427.7	3371.1	3366.9
32.5°	7724.0	5924.1	4036.1	3341.7	3238.9	3220.1	3213.8	3163.4	3098.4	3079.5
35°	8143.5	5762.6	3679.5	3144.5	3025.0	2983.0	3012.4	2995.6	2936.9	2922.2
37.5°	8449.8	5462.6	3358.5	2970.4	2871.8	2861.4	2880.2	2886.5	2817.3	2802.6
40°	8655.4	5055.6	3083.7	2823.6	2842.5	2802.6	2739.7	2695.6	2674.6	2668.4
42.5°	8821.1	4631.9	2853.0	2754.4	2848.8	2733.4	2597.0	2525.7	2563.5	2580.2
45°	9012.0	4218.6	2660.0	2668.4	2817.3	2653.7	2498.4	2429.2	2443.9	2448.1
47.5°	9274.2	3715.1	2452.3	2529.9	2712.4	2599.1	2437.6	2339.0	2269.8	2238.3
50°	9637.1	3119.4	2236.2	2374.7	2609.6	2559.3	2343.2	2238.3	2110.4	2081.0
52.5°	9888.9	2563.5	2057.9	2244.6	2517.3	2479.6	2267.7	2131.3	1997.1	1971.9
55°	9752.5	2129.2	1902.7	2099.9	2395.6	2381.0	2204.8	2022.2	1917.4	1896.4
57.5°	9070.7	1854.4	1783.1	1963.5	2246.7	2297.1	2120.8	1929.9	1854.4	1839.7
60°	7770.1	1682.4	1707.6	1871.2	2125.0	2213.1	2036.9	1879.6	1829.3	1818.8
62.5°	6029.0	1567.0	1650.9	1804.1	2030.6	2154.4	1990.8	1873.3	1854.4	1841.8
65°	4319.3	1474.7	1590.1	1736.9	1944.6	2099.9	1974.0	1864.9	1869.1	1858.6
67.5°	2934.8	1392.9	1516.7	1661.4	1860.7	2051.6	1950.9	1835.5	1888.0	1875.4
70°	2053.7	1313.2	1430.7	1564.9	1755.8	1984.5	1909.0	1791.5	1787.3	1736.9
72.5°	1602.7	1208.3	1313.2	1430.7	1621.6	1890.1	1825.1	1692.9	1623.7	1571.2
73°	1529.3	1183.1	1283.8	1401.3	1592.2	1867.0	1802.0	1665.6	1588.0	1539.8
75°	1265.0	1074.1	1166.4	1271.2	1466.3	1757.9	1688.7	1541.9	1443.3	1413.9
77.5°	994.3	918.8	1006.9	1101.3	1292.2	1598.5	1520.9	1380.3	1325.8	1300.6
80°	736.3	761.5	839.1	923.0	1120.2	1428.6	1359.4	1218.8	1462.1	1401.3
82.5°	518.1	576.9	648.2	723.7	939.8	1262.9	1178.9	1034.2	1069.9	889.5
85°	306.3	377.6	444.7	509.8	677.6	1046.8	973.4	824.4	675.5	644.0
87.5°	178.3	209.8	228.7	295.8	465.7	788.8	686.0	610.4	350.3	237.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)