

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: P194086

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194086
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-08-LED-E1-T4FT-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA 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: 42959 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

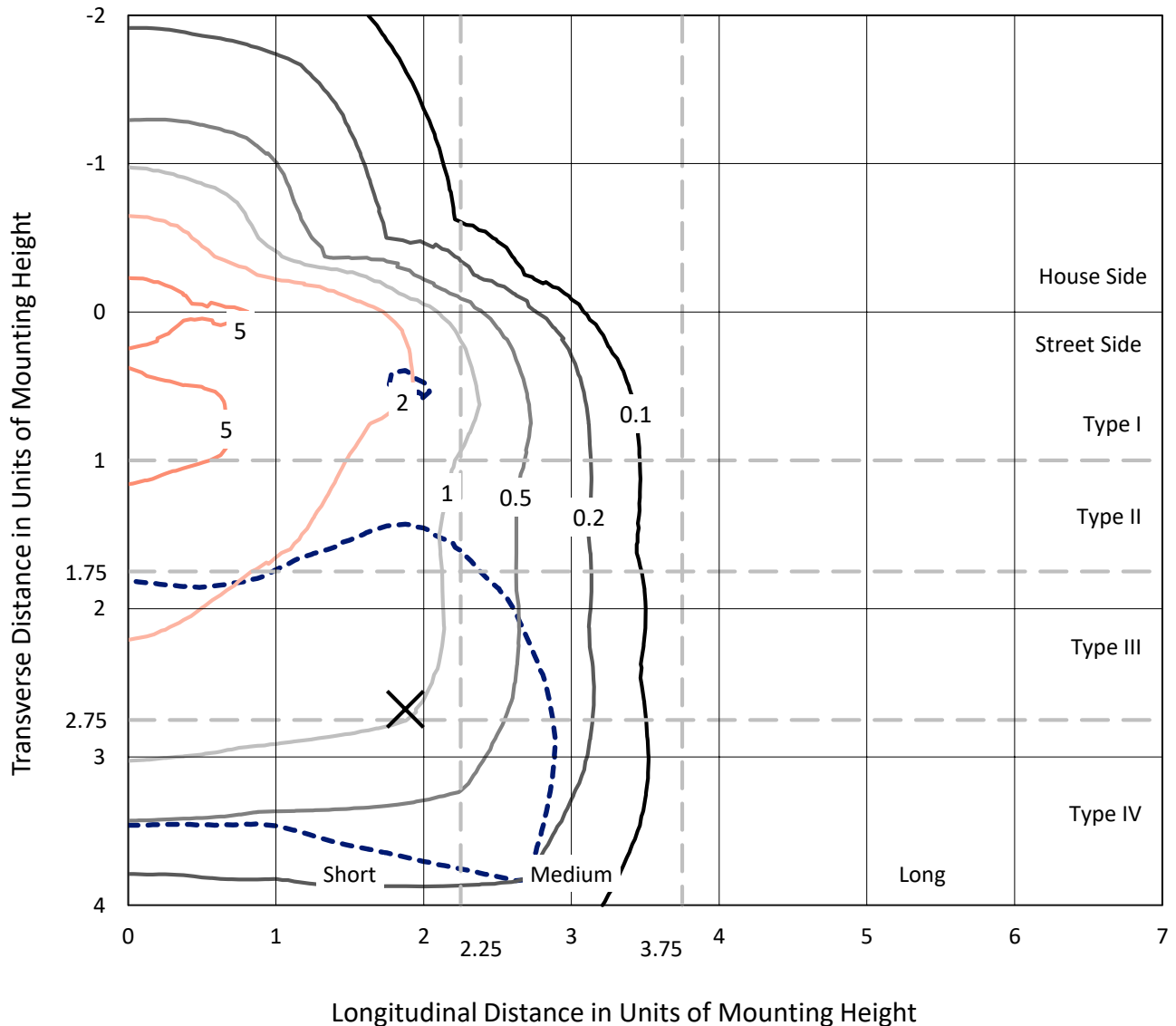


REPORT NUMBER: P194086

CATALOG NUMBER: GLEON-AF-08-LED-E1-T4FT-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

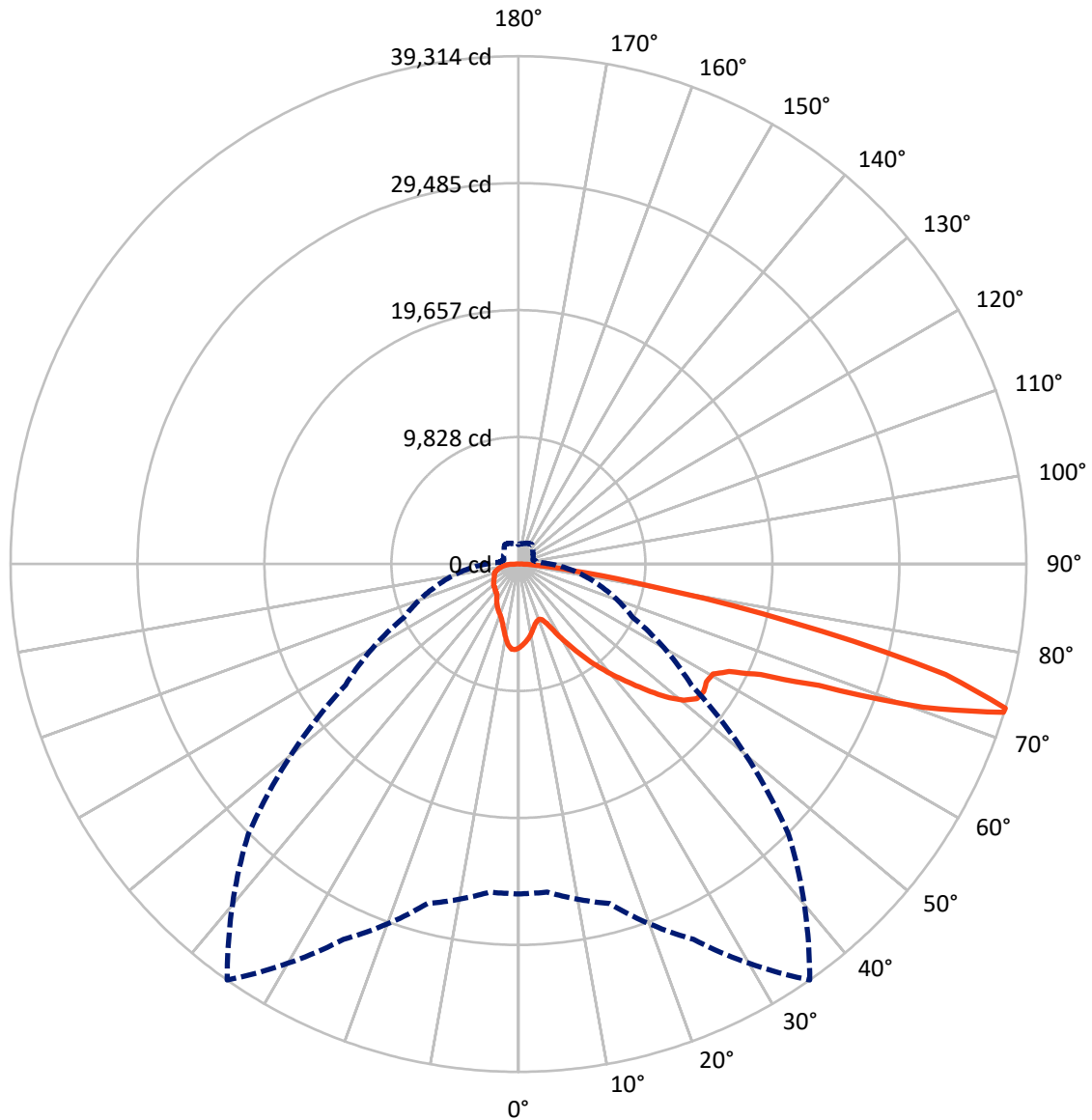


Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P194086

CATALOG NUMBER: GLEON-AF-08-LED-E1-T4FT-8030-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P194086

CATALOG NUMBER: GLEON-AF-08-LED-E1-T4FT-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8193.5	0.0	8193.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	34765.5	0.0	34765.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	42959.0	0.0	42959.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.0	1.4
10°-20°	1465.0	3.4
20°-30°	2368.4	5.5
30°-40°	3971.4	9.2
40°-50°	6121.8	14.3
50°-60°	8213.1	19.1
60°-70°	10941.5	25.5
70°-80°	8345.0	19.4
80°-90°	945.9	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°	42959.0	100.0
0°-180°	42959.0	100.0



REPORT NUMBER: P194086

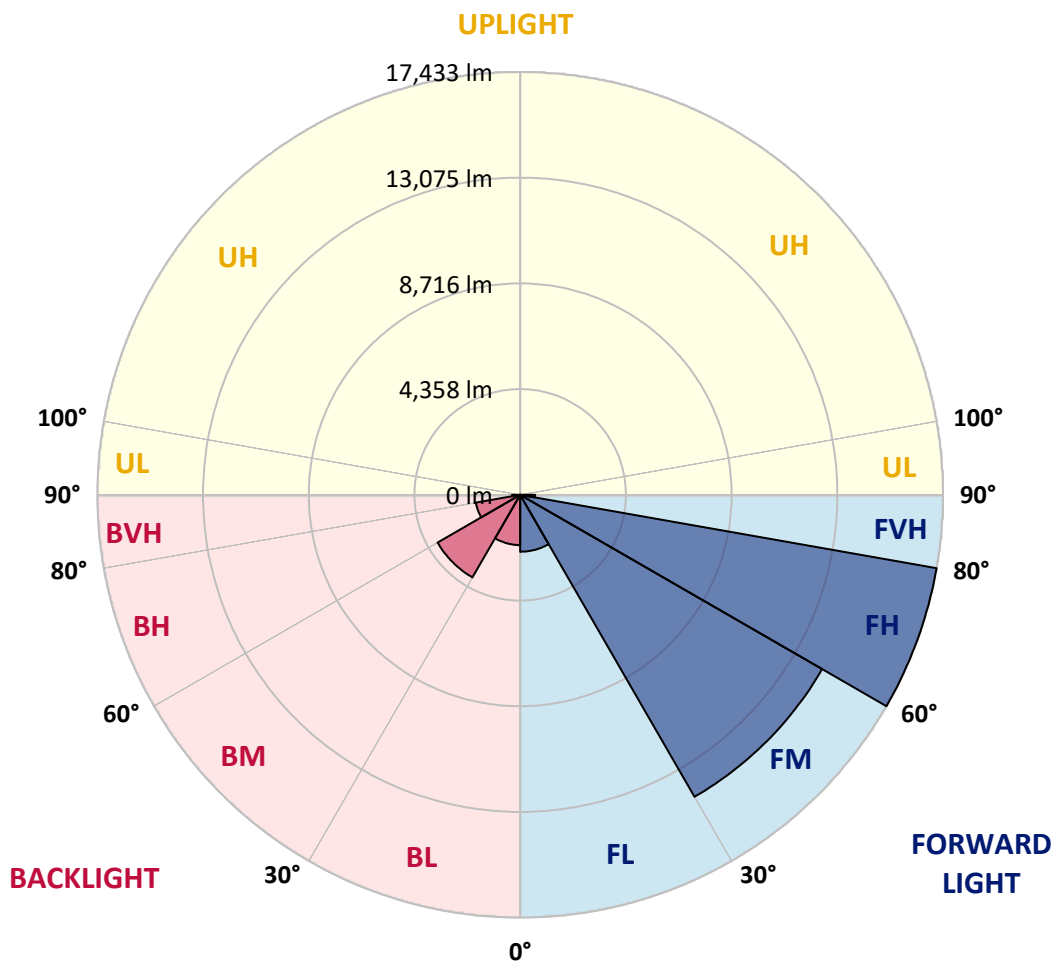
CATALOG NUMBER: GLEON-AF-08-LED-E1-T4FT-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2347.0	5.5			
FM	(30°-60°)	14374.4	33.5			
FH	(60°-80°)	17432.8	40.6			G5
FVH	(80°-90°)	611.4	1.4			G4/750
BL	(0°-30°)	2073.3	4.8	B3/2500		
BM	(30°-60°)	3931.9	9.2	B3/5000		
BH	(60°-80°)	1853.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	334.5	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: P194086

CATALOG NUMBER: GLEON-AF-08-LED-E1-T4FT-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6483.8	6483.8	6483.8	6483.8	6483.8	6483.8	6483.8	6483.8	6483.8	6483.8	6483.8
2.5°	6228.0	6240.4	6226.0	6244.5	6275.5	6308.5	6331.2	6364.2	6401.3	6452.9	6465.3
5°	5935.1	5953.7	5953.7	5986.7	6046.5	6100.1	6149.6	6203.3	6281.7	6370.4	6405.5
7.5°	5613.3	5623.6	5642.2	5691.7	5778.3	5854.6	5924.8	6011.4	6118.7	6236.3	6298.2
10°	5225.4	5239.9	5268.8	5338.9	5456.5	5561.7	5662.8	5782.4	5918.6	6065.1	6143.5
12.5°	4951.1	4947.0	4959.3	5010.9	5114.0	5242.0	5388.4	5541.1	5708.2	5879.4	5974.3
15°	4858.2	4835.6	4788.1	4775.7	4831.4	4959.3	5128.5	5316.2	5516.3	5722.6	5840.2
17.5°	4916.0	4876.8	4746.8	4651.9	4643.7	4740.7	4920.1	5130.6	5361.6	5613.3	5759.8
20°	5279.1	5186.3	4866.5	4645.8	4569.4	4616.9	4773.7	4996.5	5268.8	5603.0	5790.7
22.5°	6147.6	6011.4	5332.7	4922.2	4664.3	4606.6	4724.2	4961.4	5279.1	5730.9	5970.2
25°	7412.2	7218.3	6133.1	5611.2	5079.0	4771.6	4798.4	5041.8	5425.6	6027.9	6316.7
27.5°	8410.6	8284.8	7179.1	6582.9	5834.0	5217.2	5039.8	5244.0	5724.7	6514.8	6809.8
30°	9004.8	8928.4	8297.2	7684.5	6797.4	5926.9	5501.9	5623.6	6193.0	7189.4	7432.8
32.5°	9693.8	9648.4	9339.0	8775.8	7837.1	6859.3	6234.2	6190.9	6820.1	8000.1	8111.5
35°	10407.6	10393.1	10211.6	9807.3	8953.2	8088.8	7205.9	6912.9	7502.9	8841.8	8771.7
37.5°	11071.8	11047.1	10941.9	10706.7	10120.8	9409.1	8196.1	7653.5	8239.4	9646.3	9334.8
40°	12295.2	12101.3	11740.2	11562.8	11300.8	10521.0	8982.1	8344.6	9002.7	10413.8	9821.7
42.5°	13786.7	13471.1	12798.5	12555.1	12518.0	11397.8	9518.4	9015.1	9772.2	11175.0	10300.3
45°	14960.5	14663.4	14083.8	13776.4	13912.5	12192.0	10056.9	9730.9	10564.4	11973.4	10793.3
47.5°	16212.7	15746.5	14979.1	15071.9	15369.0	12942.9	10605.6	10500.4	11432.9	12866.6	11406.0
50°	16258.1	15901.2	15564.9	16119.9	16582.0	13634.0	11292.6	11307.0	12495.3	13990.9	12220.9
52.5°	15315.3	15239.0	15773.3	16645.9	17312.3	14180.7	12074.4	12140.5	13854.8	15282.3	13116.2
55°	14985.3	14898.6	15515.4	16462.3	17411.3	14632.5	12922.3	13042.0	15498.9	16643.9	13988.9
57.5°	15789.8	15598.0	15639.2	16375.7	17169.9	15127.6	13846.5	14087.9	17285.4	17834.2	14550.0
60°	18038.4	17627.9	16848.1	16829.5	17299.9	15870.3	14915.1	15210.1	19142.1	18403.6	14331.3
62.5°	21192.7	20782.1	19321.6	18370.6	18300.4	17095.7	16227.2	16305.5	20214.8	17632.0	12996.6
65°	24606.9	24239.6	22607.9	21264.9	20617.1	19125.6	17751.7	16794.5	19864.1	15509.2	10661.3
67.5°	28751.3	28357.3	26954.5	25714.7	25091.6	22401.6	18822.3	16326.2	17638.2	12014.6	7663.9
70°	31649.8	31247.5	30694.6	31699.3	33223.8	27127.8	18960.6	14422.1	13174.0	7985.7	4612.8
72.5°	27868.4	27680.6	28689.4	32920.5	39270.3	29995.3	17139.0	10500.4	7651.5	4239.4	2669.5
73°	25533.1	25491.9	27212.4	32064.4	39313.6	29553.8	16340.6	9759.8	6562.2	3750.4	2440.5
75°	11529.8	11862.0	15633.0	24491.3	34156.2	24353.1	11500.9	5598.8	3707.1	2591.1	1842.2
77.5°	2770.5	2886.1	4891.3	11630.9	21570.2	14512.8	5211.0	2768.5	2370.3	1829.8	1345.0
80°	1180.0	1219.2	1883.5	4297.1	10155.9	5844.3	2401.3	1854.6	1640.0	1277.0	942.8
82.5°	656.0	697.3	1068.6	1949.5	4099.1	1992.8	1464.7	1291.4	1078.9	769.5	612.7
85°	371.3	394.0	625.1	1089.2	1737.0	800.4	876.8	858.2	608.6	396.1	301.2
87.5°	175.4	189.8	301.2	505.4	680.8	313.6	445.6	491.0	381.6	241.4	156.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P194086

CATALOG NUMBER: GLEON-AF-08-LED-E1-T4FT-8030-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6483.8	6483.8	6483.8	6483.8	6483.8	6483.8	6483.8	6483.8	6483.8	6483.8
2.5°	6479.7	6516.9	6560.2	6582.9	6603.5	6628.3	6653.0	6653.0	6657.1	6659.2
5°	6434.3	6510.7	6578.7	6607.6	6613.8	6613.8	6607.6	6574.6	6545.7	6558.1
7.5°	6339.4	6450.8	6508.6	6498.3	6419.9	6329.1	6252.8	6160.0	6112.5	6104.3
10°	6203.3	6331.2	6341.5	6238.4	6044.4	5850.5	5689.6	5532.8	5458.6	5440.0
12.5°	6052.7	6170.3	6104.3	5891.8	5580.3	5297.7	5093.4	4934.6	4864.4	4845.9
15°	5931.0	6011.4	5844.3	5510.1	5118.2	4819.0	4649.9	4532.3	4482.8	4468.3
17.5°	5867.0	5883.5	5578.2	5126.4	4709.7	4460.1	4354.9	4299.2	4280.6	4270.3
20°	5898.0	5782.4	5324.5	4769.5	4375.5	4200.2	4175.4	4161.0	4156.8	4150.7
22.5°	6052.7	5751.5	5091.4	4431.2	4082.6	4006.2	4026.9	4024.8	4020.7	4016.6
25°	6329.1	5778.3	4864.4	4109.4	3837.1	3820.6	3857.7	3857.7	3841.2	3841.2
27.5°	6694.3	5834.0	4610.7	3804.1	3614.3	3616.3	3645.2	3637.0	3618.4	3606.0
30°	7139.9	5869.1	4313.6	3529.7	3405.9	3397.7	3405.9	3370.9	3315.2	3311.0
32.5°	7595.8	5825.8	3969.1	3286.3	3185.2	3166.6	3160.4	3110.9	3047.0	3028.4
35°	8008.4	5666.9	3618.4	3092.4	2974.8	2933.5	2962.4	2945.9	2888.1	2873.7
37.5°	8309.6	5371.9	3302.8	2921.1	2824.2	2813.9	2832.4	2838.6	2770.5	2756.1
40°	8511.7	4971.7	3032.5	2776.7	2795.3	2756.1	2694.2	2650.9	2630.3	2624.1
42.5°	8674.7	4555.0	2805.6	2708.7	2801.5	2688.0	2553.9	2483.8	2520.9	2537.4
45°	8862.4	4148.6	2615.8	2624.1	2770.5	2609.6	2457.0	2388.9	2403.3	2407.5
47.5°	9120.3	3653.5	2411.6	2487.9	2667.4	2556.0	2397.1	2300.2	2232.1	2201.2
50°	9477.2	3067.6	2199.1	2335.3	2566.3	2516.8	2304.3	2201.2	2075.3	2046.4
52.5°	9724.7	2520.9	2023.8	2207.4	2475.5	2438.4	2230.0	2096.0	1963.9	1939.2
55°	9590.6	2093.9	1871.1	2065.0	2355.9	2341.4	2168.2	1988.7	1885.5	1864.9
57.5°	8920.2	1823.6	1753.5	1930.9	2209.4	2258.9	2085.6	1897.9	1823.6	1809.2
60°	7641.2	1654.5	1679.2	1840.2	2089.8	2176.4	2003.1	1848.4	1798.9	1788.6
62.5°	5928.9	1541.0	1623.5	1774.1	1996.9	2118.6	1957.7	1842.2	1823.6	1811.3
65°	4247.6	1450.3	1563.7	1708.1	1912.4	2065.0	1941.2	1834.0	1838.1	1827.8
67.5°	2886.1	1369.8	1491.5	1633.9	1829.8	2017.6	1918.5	1805.1	1856.7	1844.3
70°	2019.6	1291.4	1406.9	1539.0	1726.7	1951.5	1877.3	1761.8	1757.6	1708.1
72.5°	1576.1	1188.3	1291.4	1406.9	1594.7	1858.7	1794.8	1664.8	1596.7	1545.1
73°	1503.9	1163.5	1262.5	1378.0	1565.8	1836.0	1772.1	1638.0	1561.7	1514.2
75°	1244.0	1056.2	1147.0	1250.1	1442.0	1728.8	1660.7	1516.3	1419.3	1390.4
77.5°	977.8	903.6	990.2	1083.0	1270.8	1572.0	1495.6	1357.4	1303.8	1279.0
80°	724.1	748.9	825.2	907.7	1101.6	1404.9	1336.8	1198.6	1437.9	1378.0
82.5°	509.5	567.3	637.5	711.7	924.2	1241.9	1159.4	1017.0	1052.1	874.7
85°	301.2	371.3	437.3	501.3	666.3	1029.4	957.2	810.7	664.3	633.3
87.5°	175.4	206.3	224.9	290.9	458.0	775.7	674.6	600.3	344.5	233.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)