

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: P193928

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51754 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

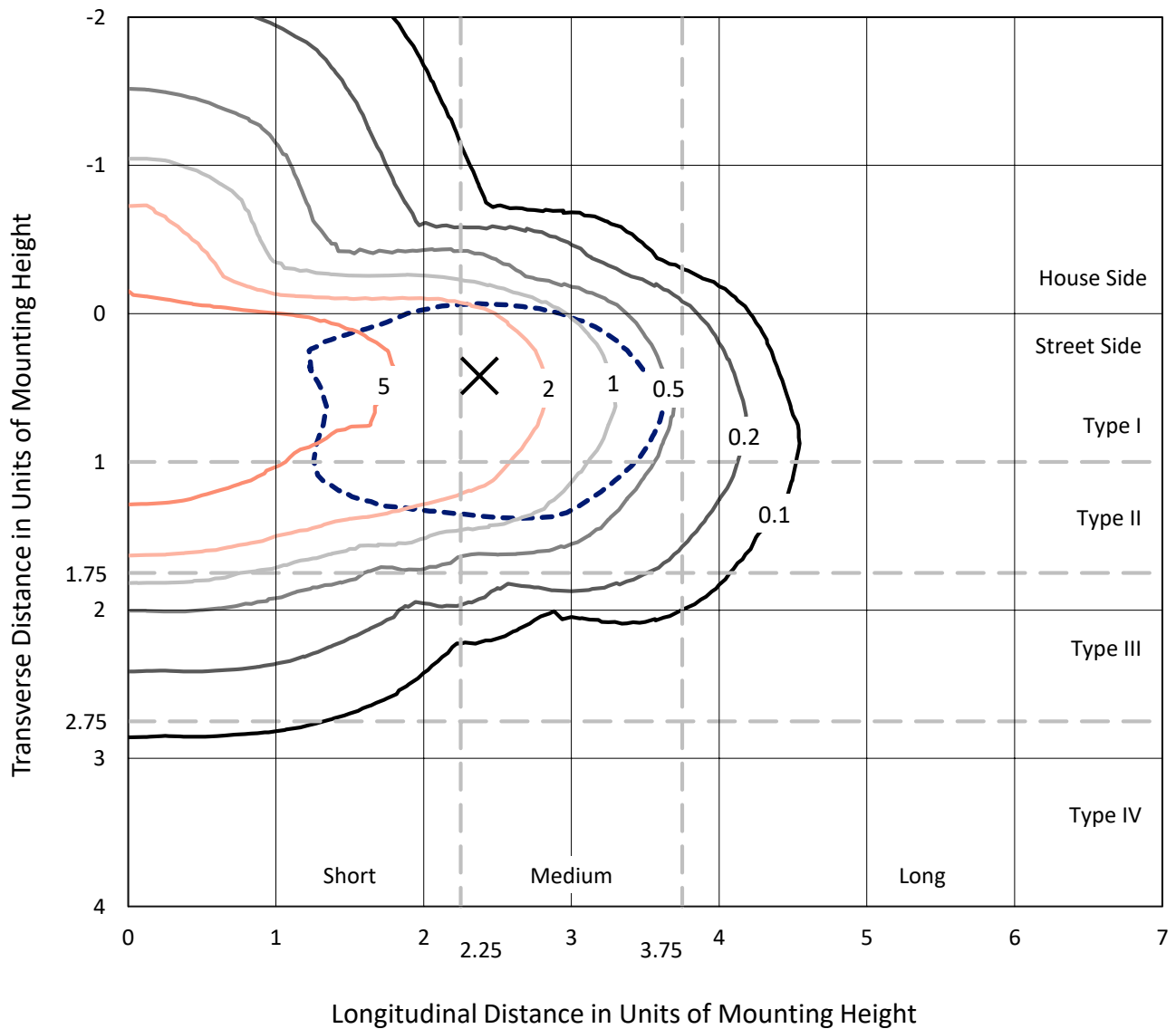


REPORT NUMBER: P193928

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

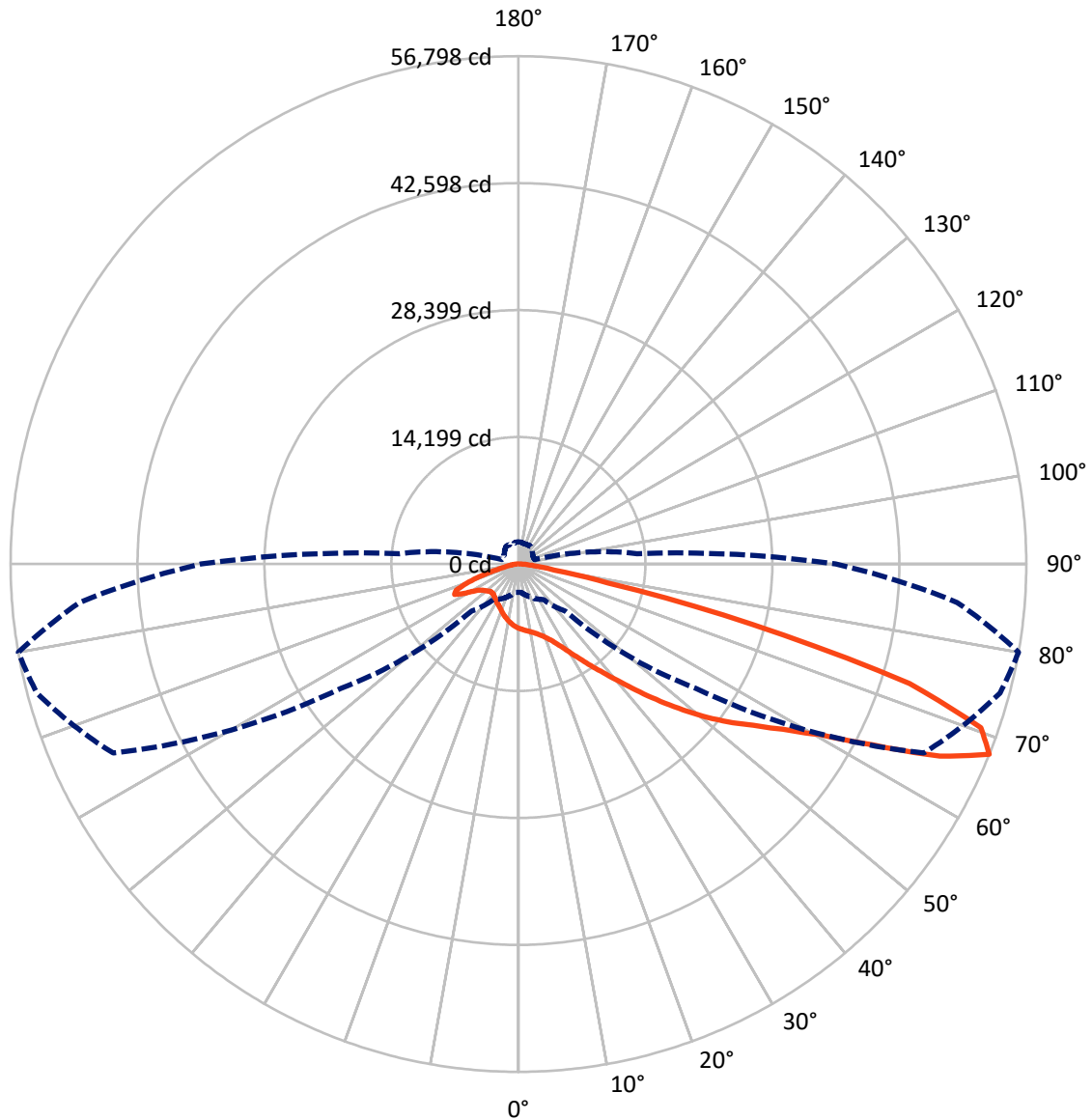


Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193928

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2-8030-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P193928

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9531.1	0.0	9531.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	42222.9	0.0	42222.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	51754.0	0.0	51754.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.3	1.3
10°-20°	1910.6	3.7
20°-30°	3162.6	6.1
30°-40°	5173.1	10.0
40°-50°	8352.5	16.1
50°-60°	12058.6	23.3
60°-70°	13307.4	25.7
70°-80°	6133.9	11.9
80°-90°	992.1	1.9
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°	51754.0	100.0
0°-180°	51754.0	100.0



REPORT NUMBER: P193928

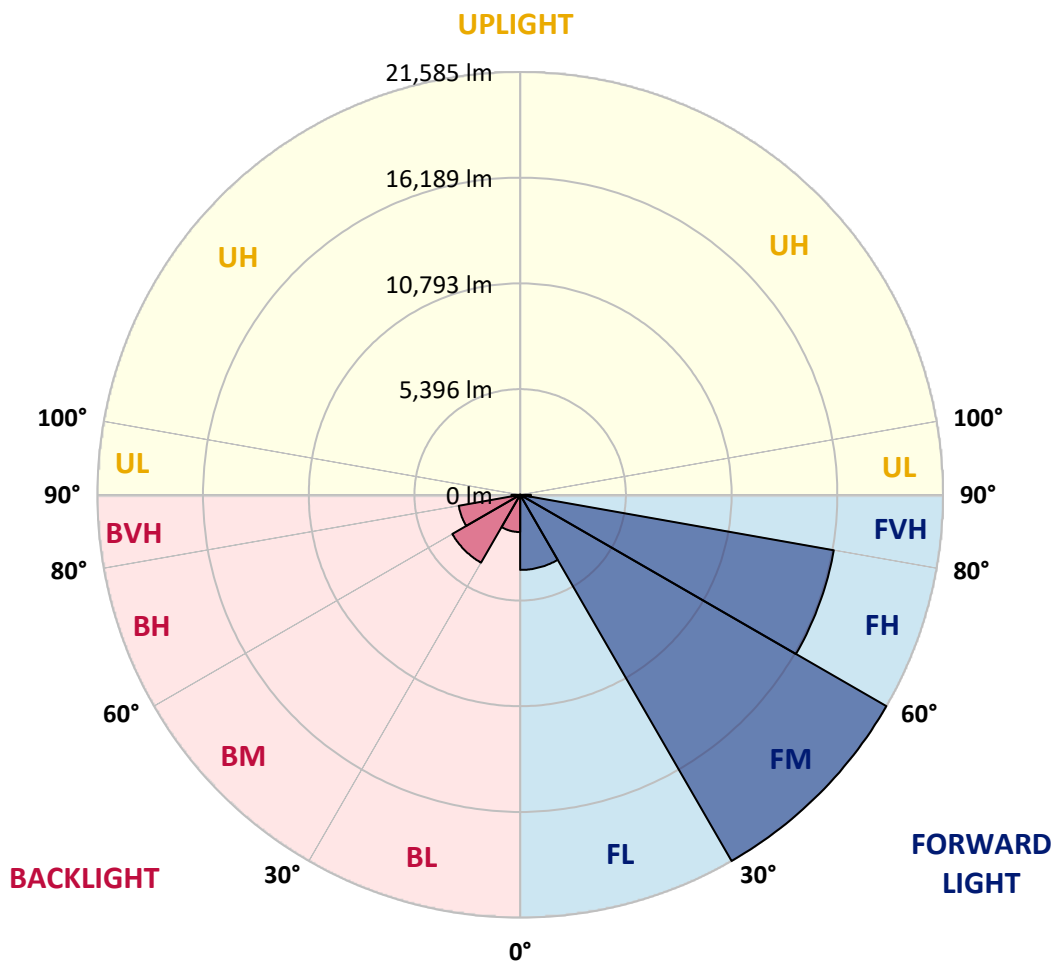
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3834.9	7.4			
FM (30°-60°)	21585.3	41.7			
FH (60°-80°)	16257.3	31.4			G5
FVH (80°-90°)	545.5	1.1			G4/750
BL (0°-30°)	1901.6	3.7	B3/2500		
BM (30°-60°)	3998.9	7.7	B3/5000		
BH (60°-80°)	3184.0	6.2	B4/5000		G4/5000
BVH (80°-90°)	446.7	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





REPORT NUMBER: P193928

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	7190.1	7190.1	7190.1	7190.1	7190.1	7190.1	7190.1	7190.1	7190.1	7190.1	7190.1
2.5°	7865.3	7819.5	7827.1	7814.4	7776.1	7709.9	7638.6	7508.6	7373.6	7302.2	7246.2
5°	8522.7	8509.9	8492.1	8451.3	8354.5	8216.9	8046.2	7816.9	7569.8	7439.8	7315.0
7.5°	9014.4	9006.8	8983.8	8958.4	8864.1	8698.5	8441.1	8115.0	7755.8	7577.4	7383.8
10°	9055.2	9067.9	9085.8	9154.6	9167.3	9078.1	8815.7	8420.8	7949.4	7720.1	7473.0
12.5°	8708.7	8736.7	8805.5	8981.3	9167.3	9276.9	9141.8	8741.8	8176.2	7898.4	7585.1
15°	8250.1	8265.3	8349.4	8591.5	8925.2	9264.1	9391.5	9096.0	8469.2	8127.8	7753.2
17.5°	8053.9	8061.5	8120.1	8280.6	8591.5	9075.6	9531.6	9480.7	8828.4	8413.1	7959.6
20°	7954.5	7972.3	8056.4	8214.4	8410.6	8833.5	9552.0	9896.0	9256.5	8769.8	8219.5
22.5°	8237.3	8229.7	8260.2	8339.2	8504.8	8759.6	9536.7	10324.0	9801.7	9228.4	8558.4
25°	8897.2	8925.2	8871.7	8782.6	8836.1	9014.4	9618.3	10787.8	10484.6	9817.0	9001.7
27.5°	9837.4	9809.4	9730.4	9521.5	9411.9	9488.3	9888.3	11287.1	11333.0	10591.6	9587.7
30°	10775.0	10752.1	10675.6	10420.9	10196.6	10132.9	10413.2	11860.4	12344.5	11521.5	10306.2
32.5°	11748.3	11722.8	11651.5	11396.7	11126.6	10978.8	11159.7	12522.9	13536.9	12632.4	11152.1
35°	12948.4	12899.9	12749.6	12395.5	12130.5	12015.8	12099.9	13356.0	14912.8	13947.1	12178.9
37.5°	14077.1	14151.0	13998.1	13508.9	13164.9	13124.2	13218.4	14372.6	16395.6	15417.3	13358.6
40°	15210.9	15223.6	15086.0	14686.0	14331.9	14265.6	14502.6	15605.8	18146.0	17175.3	14793.0
42.5°	16382.9	16408.4	16176.5	15807.1	15547.2	15559.9	15830.0	17050.5	20153.8	19246.7	16444.1
45°	17771.5	17809.7	17554.9	17070.8	16833.9	17310.3	17198.2	18670.9	22355.2	21601.0	18339.7
47.5°	19223.8	19282.4	19088.8	18635.2	18339.7	18994.5	18566.4	20467.2	24724.7	24125.9	20421.3
50°	20016.2	20100.3	20288.8	20255.7	20192.0	20082.4	20092.6	22393.4	27168.1	26755.4	22561.5
52.5°	19590.7	19588.2	20276.1	21111.8	22003.5	22069.8	21952.6	24424.0	29451.0	29326.2	24576.9
55°	17644.1	17776.6	18818.7	20436.6	22872.4	24393.5	24740.0	26750.3	31693.2	31838.4	26622.9
57.5°	14403.2	14512.8	15919.2	18174.1	21700.3	25774.4	28704.5	30131.3	34200.3	34878.0	29346.6
60°	9768.6	9901.1	11391.6	14100.0	18546.1	25005.0	32477.9	36164.7	37201.7	38743.2	33168.4
62.5°	5740.4	5860.1	7075.5	8894.7	13057.9	21430.3	34134.0	44748.5	41968.8	44575.3	38998.0
65°	3951.8	4033.3	4624.4	5536.6	7503.5	14433.8	32080.4	50674.9	49304.2	51801.1	45757.5
67.5°	3179.8	3169.6	3638.4	4260.1	4830.8	7442.4	24258.4	50004.8	55755.4	56797.5	49265.9
70°	2619.2	2609.0	2927.5	3442.2	3860.0	4191.3	13213.3	42198.1	54440.7	54863.6	46035.2
72.5°	2191.2	2201.4	2405.2	2787.4	3167.0	3156.8	5806.6	29685.4	42827.4	45752.4	36697.2
75°	1849.8	1854.9	1989.9	2260.0	2570.8	2542.8	3149.2	16082.3	24895.4	26931.2	20342.3
77.5°	1574.6	1579.7	1666.3	1816.6	2038.3	2028.1	2298.2	6948.1	10385.2	10257.8	6958.3
80°	1403.9	1403.9	1444.7	1472.7	1595.0	1549.1	1704.5	3337.7	4390.0	4053.7	2777.2
82.5°	1100.7	1105.8	1355.5	1345.3	1256.1	1197.5	1197.5	1967.0	2326.2	2150.4	1625.6
85°	619.1	616.6	873.9	1054.8	1105.8	843.4	835.7	1100.7	1266.3	1116.0	787.3
87.5°	265.0	270.1	405.1	468.8	626.8	524.9	517.2	568.2	644.6	558.0	364.3
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°	7190.1	7190.1	7190.1	7190.1	7190.1	7190.1	7190.1	7190.1	7190.1	7190.1	7190.1
2.5°	7192.7	7126.4	6981.2	6800.3	6637.2	6530.2	6433.4	6293.3	6300.9	6204.1	6132.8
5°	7187.6	7050.0	6713.7	6313.7	5928.9	5651.2	5442.3	5253.7	5207.9	5118.7	5065.2
7.5°	7192.7	6968.5	6402.8	5763.3	5286.9	4935.3	4756.9	4657.5	4634.6	4604.0	4606.6
10°	7210.5	6894.6	6061.4	5248.6	4749.3	4517.4	4474.1	4504.7	4540.3	4550.5	4553.1
12.5°	7251.3	6828.3	5686.9	4790.0	4412.9	4341.6	4415.5	4520.0	4588.7	4621.9	4619.3
15°	7343.0	6777.4	5327.6	4430.8	4226.9	4265.2	4402.7	4550.5	4649.9	4695.8	4698.3
17.5°	7442.4	6703.5	4958.2	4155.6	4089.4	4186.2	4356.9	4530.1	4652.4	4703.4	4713.6
20°	7572.3	6611.8	4570.9	3949.2	3959.4	4069.0	4229.5	4402.7	4537.8	4581.1	4601.5
22.5°	7743.0	6512.4	4232.0	3781.1	3811.6	3895.7	4020.6	4170.9	4288.1	4308.5	4326.3
25°	7972.3	6405.4	3962.0	3628.2	3640.9	3689.3	3773.4	3862.6	3944.1	3921.2	3939.0
27.5°	8280.6	6313.7	3760.7	3488.1	3465.1	3475.3	3518.6	3546.7	3590.0	3526.3	3533.9
30°	8642.4	6214.3	3605.3	3365.8	3302.1	3284.2	3294.4	3309.7	3342.8	3256.2	3243.5
32.5°	9062.8	6094.5	3460.0	3258.7	3169.6	3133.9	3139.0	3179.8	3307.2	3253.7	3225.6
35°	9552.0	5959.5	3307.2	3141.5	3080.4	3029.4	3024.3	3151.7	3531.4	3498.2	3472.8
37.5°	10125.3	5824.5	3154.3	3009.1	3014.1	2958.1	2940.3	3085.5	3574.7	3444.7	3426.9
40°	10854.0	5753.1	3024.3	2868.9	2932.6	2925.0	2889.3	2963.2	3289.3	3052.4	3021.8
42.5°	11755.9	5763.3	2927.5	2718.6	2835.8	2917.3	2861.3	2863.8	2981.0	2802.7	2774.6
45°	12869.4	5883.1	2858.7	2598.8	2726.2	2909.7	2851.1	2810.3	2820.5	2726.2	2711.0
47.5°	14168.8	6130.2	2810.3	2499.5	2621.8	2881.7	2848.5	2795.0	2772.1	2721.1	2708.4
50°	15613.4	6489.5	2774.6	2405.2	2527.5	2835.8	2851.1	2779.7	2754.3	2733.9	2726.2
52.5°	17032.6	6899.7	2721.1	2323.7	2453.6	2779.7	2858.7	2764.5	2736.4	2721.1	2713.5
55°	18614.9	7411.8	2639.6	2254.9	2392.5	2708.4	2858.7	2741.5	2711.0	2713.5	2711.0
57.5°	20752.5	8239.9	2542.8	2196.3	2318.6	2621.8	2810.3	2716.0	2677.8	2680.4	2682.9
60°	24092.8	9699.8	2425.6	2137.7	2226.9	2519.9	2744.1	2660.0	2621.8	2632.0	2634.5
62.5°	29005.1	11842.6	2272.7	2051.0	2130.0	2410.3	2652.3	2588.7	2550.4	2575.9	2575.9
65°	34111.1	13733.1	2084.2	1941.5	2028.1	2290.6	2537.7	2499.5	2461.3	2519.9	2517.3
67.5°	35484.4	13310.2	1895.6	1821.7	1926.2	2158.1	2400.1	2379.7	2359.3	2461.3	2456.2
70°	31522.5	10685.8	1722.4	1699.4	1814.1	2015.4	2252.3	2252.3	2239.6	2316.0	2298.2
72.5°	24016.4	7577.4	1556.8	1569.5	1686.7	1860.0	2091.8	2109.7	2089.3	2127.5	2112.2
75°	12856.6	4336.5	1391.1	1426.8	1528.7	1702.0	1913.5	1931.3	1918.6	1916.0	1923.7
77.5°	4272.8	2119.8	1217.9	1273.9	1363.1	1538.9	1727.5	1755.5	1724.9	1719.8	1717.3
80°	1903.3	1332.5	1026.8	1100.7	1179.7	1352.9	1531.3	1554.2	1521.1	1567.0	1508.3
82.5°	1223.0	876.5	823.0	904.5	980.9	1166.9	1335.1	1340.2	1309.6	1521.1	1296.9
85°	593.7	542.7	619.1	693.0	759.3	917.2	1105.8	1108.3	1031.9	940.2	907.0
87.5°	295.6	315.9	412.8	479.0	512.1	629.3	805.1	789.8	756.7	687.9	634.4
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)