

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: P191388

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191388
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-T2-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64879.6 lumens
Efficiency: N/A
Efficacy: 101.4 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

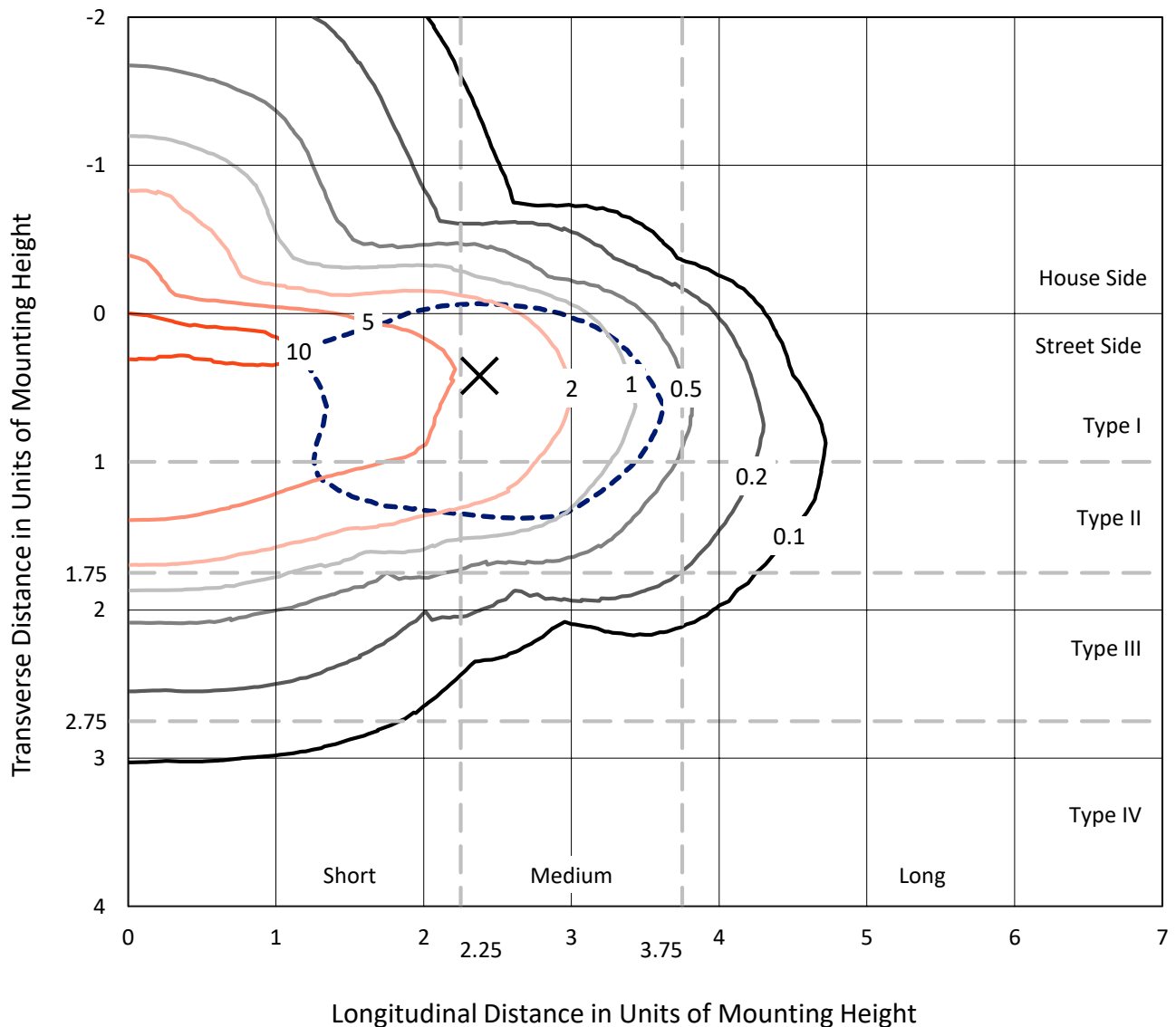


REPORT NUMBER: P191388

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

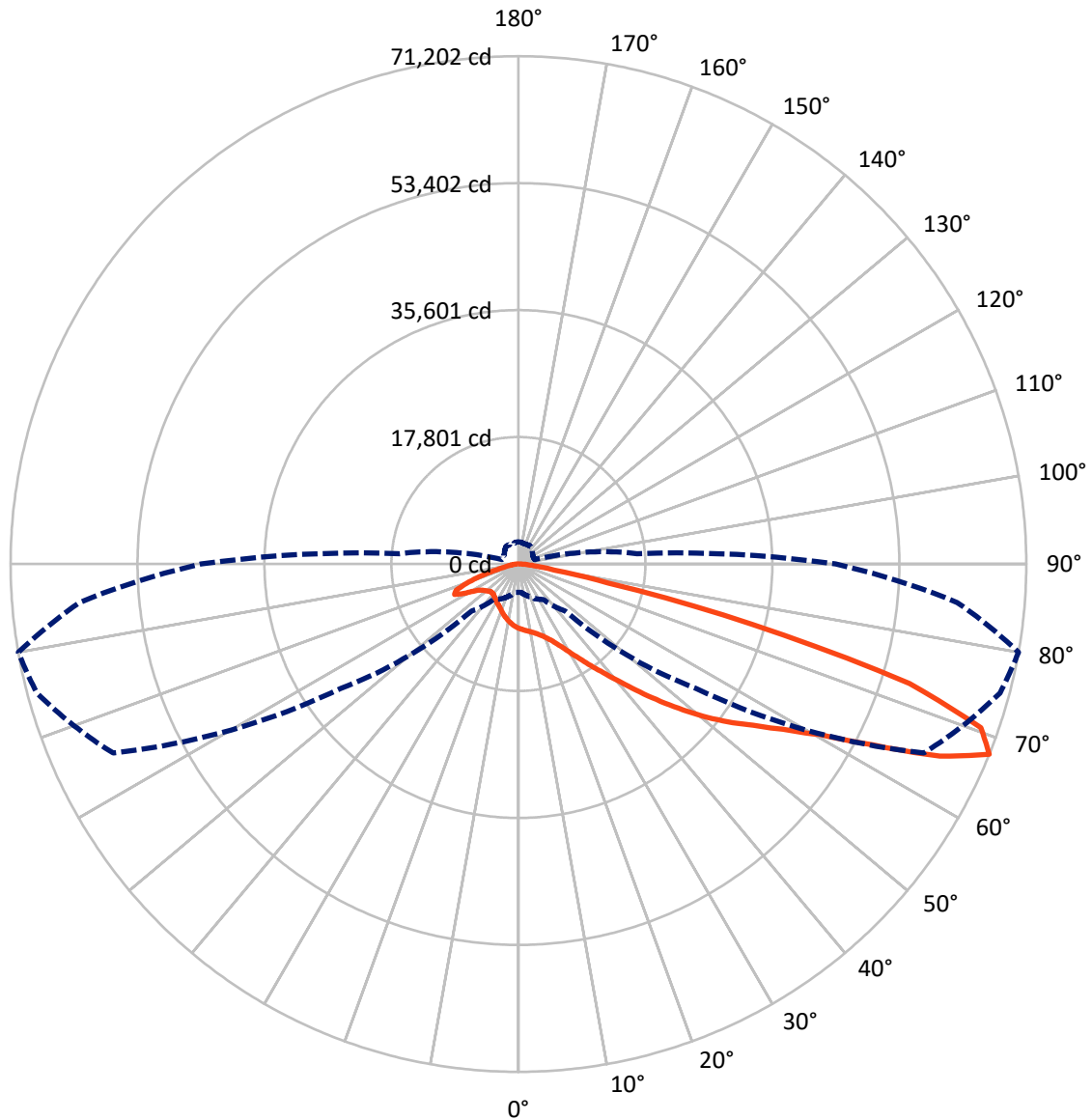


Based on 30 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191388

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

Luminous Intensity Polar Plot



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

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11948.3	0.0	11948.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	52931.3	0.0	52931.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	64879.6	0.0	64879.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.5	1.3
10°-20°	2395.2	3.7
20°-30°	3964.6	6.1
30°-40°	6485.1	10.0
40°-50°	10470.8	16.1
50°-60°	15116.8	23.3
60°-70°	16682.3	25.7
70°-80°	7689.5	11.9
80°-90°	1243.7	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°	64879.6	100.0
0°-180°	64879.6	100.0



REPORT NUMBER: P191388

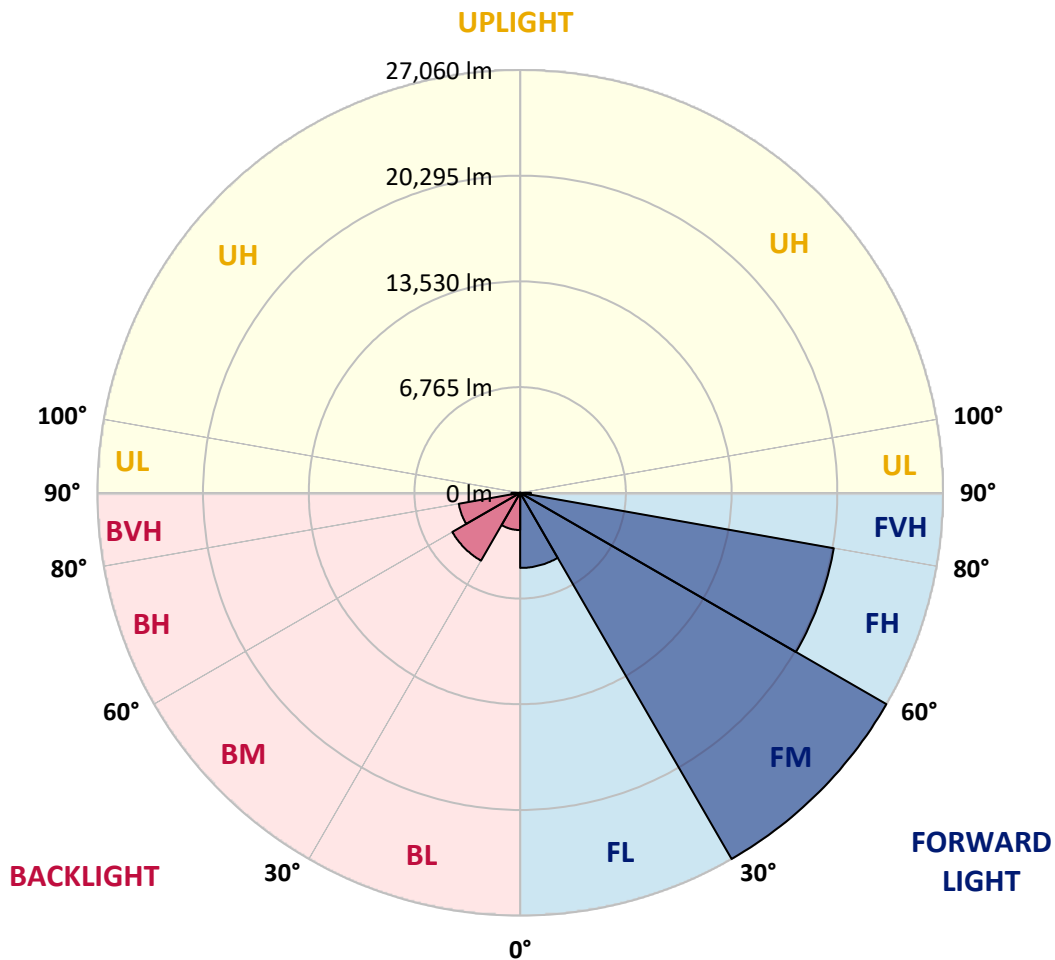
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4807.5	7.4			
FM (30°-60°)	27059.6	41.7			
FH (60°-80°)	20380.4	31.4			G5
FVH (80°-90°)	683.8	1.1			G4/750
BL (0°-30°)	2383.9	3.7	B3/2500		
BM (30°-60°)	5013.1	7.7	B4/8500		
BH (60°-80°)	3991.5	6.2	B4/5000		G4/5000
BVH (80°-90°)	559.9	0.9			G4/750
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: P191388

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	9013.6	9013.6	9013.6	9013.6	9013.6	9013.6	9013.6	9013.6	9013.6	9013.6	9013.6
2.5°	9860.1	9802.6	9812.1	9796.2	9748.3	9665.2	9575.8	9412.9	9243.7	9154.2	9083.9
5°	10684.2	10668.1	10645.8	10594.7	10473.4	10300.9	10086.9	9799.5	9489.6	9326.7	9170.1
7.5°	11300.6	11291.0	11262.3	11230.4	11112.2	10904.6	10581.9	10173.1	9722.7	9499.1	9256.4
10°	11351.7	11367.7	11390.0	11476.3	11492.2	11380.4	11051.4	10556.4	9965.5	9678.0	9368.2
12.5°	10917.3	10952.4	11038.7	11259.1	11492.2	11629.6	11460.3	10958.9	10249.8	9901.7	9508.7
15°	10342.4	10361.6	10466.9	10770.4	11188.8	11613.7	11773.3	11402.8	10617.1	10189.1	9719.6
17.5°	10096.4	10106.0	10179.5	10380.7	10770.4	11377.3	11949.0	11885.2	11067.4	10546.8	9978.3
20°	9971.9	9994.2	10099.7	10297.6	10543.7	11073.9	11974.6	12405.7	11604.0	10994.0	10304.1
22.5°	10326.4	10316.9	10355.2	10454.1	10661.8	10981.2	11955.4	12942.4	12287.6	11569.0	10728.9
25°	11153.7	11188.8	11121.7	11009.9	11077.0	11300.6	12057.6	13523.7	13143.6	12306.7	11284.7
27.5°	12332.3	12297.2	12198.2	11936.2	11798.9	11894.8	12396.2	14149.8	14207.3	13277.8	12019.3
30°	13507.8	13479.0	13383.2	13063.8	12782.7	12702.8	13054.2	14868.4	15475.3	14443.6	12920.0
32.5°	14727.8	14695.9	14606.5	14287.0	13948.5	13763.3	13990.1	15698.8	16970.1	15836.2	13980.5
35°	16232.3	16171.6	15983.1	15539.1	15207.0	15063.3	15168.6	16743.4	18694.9	17484.4	15267.6
37.5°	17647.2	17739.9	17548.2	16935.0	16503.8	16452.6	16570.9	18017.7	20553.8	19327.3	16746.5
40°	19068.6	19084.6	18912.1	18410.7	17966.7	17883.6	18180.7	19563.7	22748.2	21531.3	18544.8
42.5°	20537.9	20569.8	20279.2	19816.0	19490.2	19506.2	19844.7	21374.8	25265.1	24128.0	20614.5
45°	22278.6	22326.5	22007.2	21400.2	21103.3	21700.5	21560.0	23406.1	28024.8	27079.3	22990.9
47.5°	24099.3	24172.7	23930.0	23361.4	22990.9	23811.8	23275.2	25658.0	30995.3	30244.7	25600.5
50°	25092.6	25198.0	25434.3	25392.9	25313.0	25175.6	25188.4	28072.7	34058.3	33540.9	28283.5
52.5°	24559.2	24556.0	25418.4	26466.1	27584.0	27667.0	27520.1	30618.4	36920.2	36763.7	30810.1
55°	22119.0	22285.0	23591.4	25619.6	28673.2	30580.0	31014.4	33534.6	39731.0	39913.1	33374.9
57.5°	18056.1	18193.4	19956.5	22783.3	27203.9	32311.2	35984.4	37773.1	42874.0	43723.7	36789.3
60°	12246.1	12412.2	14280.7	17676.0	23249.6	31346.6	40714.8	45336.7	46636.6	48569.1	41580.4
62.5°	7196.3	7346.3	8869.9	11150.5	16369.6	26865.3	42791.0	56097.5	52612.7	55880.2	48888.5
65°	4954.0	5056.2	5797.3	6940.7	9406.5	18094.4	40216.6	63526.9	61808.4	64938.7	57362.3
67.5°	3986.2	3973.4	4561.1	5340.5	6056.0	9329.9	30410.8	62686.8	69895.9	71202.2	61760.6
70°	3283.5	3270.7	3669.9	4315.2	4839.0	5254.3	16564.4	52900.2	68247.7	68777.9	57710.5
72.5°	2746.9	2759.7	3015.2	3494.3	3970.3	3957.5	7279.3	37214.1	53689.2	57355.9	46004.2
75°	2318.9	2325.3	2494.6	2833.2	3222.8	3187.7	3947.9	20160.9	31209.3	33761.4	25501.4
77.5°	1973.9	1980.3	2089.0	2277.4	2555.2	2542.4	2881.0	8710.2	13019.0	12859.3	8723.0
80°	1759.9	1759.9	1811.0	1846.2	1999.5	1942.0	2136.8	4184.3	5503.4	5081.8	3481.5
82.5°	1379.9	1386.2	1699.2	1686.4	1574.6	1501.2	1501.2	2465.8	2916.2	2695.8	2037.8
85°	776.1	772.9	1095.6	1322.4	1386.2	1057.2	1047.7	1379.9	1587.4	1399.0	986.9
87.5°	332.2	338.6	507.9	587.7	785.7	658.0	648.3	712.3	808.1	699.5	456.7
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°	9013.6	9013.6	9013.6	9013.6	9013.6	9013.6	9013.6	9013.6	9013.6	9013.6	9013.6
2.5°	9016.9	8933.8	8751.8	8525.0	8320.6	8186.4	8065.0	7889.4	7898.9	7777.6	7688.1
5°	9010.5	8838.0	8416.3	7914.9	7432.6	7084.4	6822.6	6586.2	6528.7	6416.9	6349.8
7.5°	9016.9	8735.8	8026.7	7225.0	6627.7	6186.9	5963.3	5838.8	5810.1	5771.7	5774.9
10°	9039.2	8643.1	7598.7	6579.8	5953.8	5663.1	5608.8	5647.1	5691.8	5704.6	5707.8
12.5°	9090.4	8560.2	7129.1	6004.8	5532.1	5442.7	5535.3	5666.3	5752.6	5794.0	5790.8
15°	9205.3	8496.2	6678.8	5554.5	5299.0	5346.9	5519.3	5704.6	5829.2	5886.7	5889.8
17.5°	9329.9	8403.6	6215.7	5209.5	5126.5	5247.8	5461.8	5679.0	5832.4	5896.3	5909.1
20°	9492.8	8288.7	5730.2	4950.8	4963.6	5100.9	5302.2	5519.3	5688.6	5742.9	5768.5
22.5°	9706.8	8164.1	5305.3	4740.0	4778.3	4883.8	5040.3	5228.7	5375.6	5401.2	5423.6
25°	9994.2	8029.9	4966.7	4548.3	4564.3	4625.0	4730.4	4842.2	4944.4	4915.7	4938.0
27.5°	10380.7	7914.9	4714.5	4372.7	4344.0	4356.7	4411.0	4446.2	4500.5	4420.6	4430.2
30°	10834.3	7790.4	4519.6	4219.4	4139.5	4117.2	4130.0	4149.1	4190.6	4082.0	4066.0
32.5°	11361.3	7640.2	4337.5	4085.3	3973.4	3928.7	3935.1	3986.2	4145.9	4078.8	4043.7
35°	11974.6	7470.9	4145.9	3938.3	3861.6	3797.7	3791.4	3951.0	4427.0	4385.5	4353.5
37.5°	12693.3	7301.6	3954.2	3772.2	3778.6	3708.3	3686.0	3868.0	4481.2	4318.4	4296.0
40°	13606.8	7212.2	3791.4	3596.5	3676.4	3666.8	3622.1	3714.7	4123.5	3826.4	3788.2
42.5°	14737.4	7225.0	3669.9	3408.1	3555.0	3657.3	3587.0	3590.1	3737.0	3513.4	3478.3
45°	16133.3	7375.1	3583.7	3258.0	3417.7	3647.6	3574.2	3523.0	3535.8	3417.7	3398.4
47.5°	17762.2	7684.9	3523.0	3133.4	3286.7	3612.4	3571.0	3503.9	3475.2	3411.2	3395.3
50°	19573.2	8135.3	3478.3	3015.2	3168.5	3555.0	3574.2	3484.7	3452.8	3427.2	3417.7
52.5°	21352.4	8649.6	3411.2	2913.0	3075.9	3484.7	3583.7	3465.6	3430.5	3411.2	3401.7
55°	23335.9	9291.6	3309.0	2826.7	2999.2	3395.3	3583.7	3436.8	3398.4	3401.7	3398.4
57.5°	26015.7	10329.7	3187.7	2753.3	2906.6	3286.7	3523.0	3404.9	3357.0	3360.2	3363.4
60°	30203.1	12159.8	3040.7	2679.8	2791.6	3159.0	3440.0	3334.6	3286.7	3299.4	3302.7
62.5°	36361.3	14846.1	2849.1	2571.2	2670.2	3021.6	3325.0	3245.2	3197.2	3229.3	3229.3
65°	42762.2	17216.1	2612.7	2433.9	2542.4	2871.4	3181.3	3133.4	3085.4	3159.0	3155.7
67.5°	44483.8	16685.9	2376.4	2283.7	2414.7	2705.4	3008.8	2983.2	2957.8	3085.4	3079.1
70°	39517.0	13396.0	2159.1	2130.4	2274.2	2526.5	2823.5	2823.5	2807.6	2903.4	2881.0
72.5°	30107.3	9499.1	1951.6	1967.5	2114.4	2331.7	2622.3	2644.7	2619.2	2667.0	2647.9
75°	16117.3	5436.3	1743.9	1788.6	1916.4	2133.7	2398.7	2421.1	2405.2	2402.0	2411.5
77.5°	5356.5	2657.4	1526.8	1597.0	1708.8	1929.2	2165.6	2200.7	2162.4	2156.0	2152.8
80°	2385.9	1670.5	1287.2	1379.9	1478.9	1696.1	1919.7	1948.4	1906.9	1964.4	1890.9
82.5°	1533.2	1098.8	1031.6	1133.9	1229.7	1462.9	1673.6	1680.1	1641.7	1906.9	1625.8
85°	744.2	680.4	776.1	868.8	951.9	1149.9	1386.2	1389.4	1293.6	1178.6	1137.1
87.5°	370.5	396.1	517.4	600.5	642.0	788.9	1009.3	990.1	948.7	862.4	795.3
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)