

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: P191528

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191528
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-10-LED-E1-T4FT-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA 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: 48987.1 lumens
Efficiency: N/A
Efficacy: 116.9 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

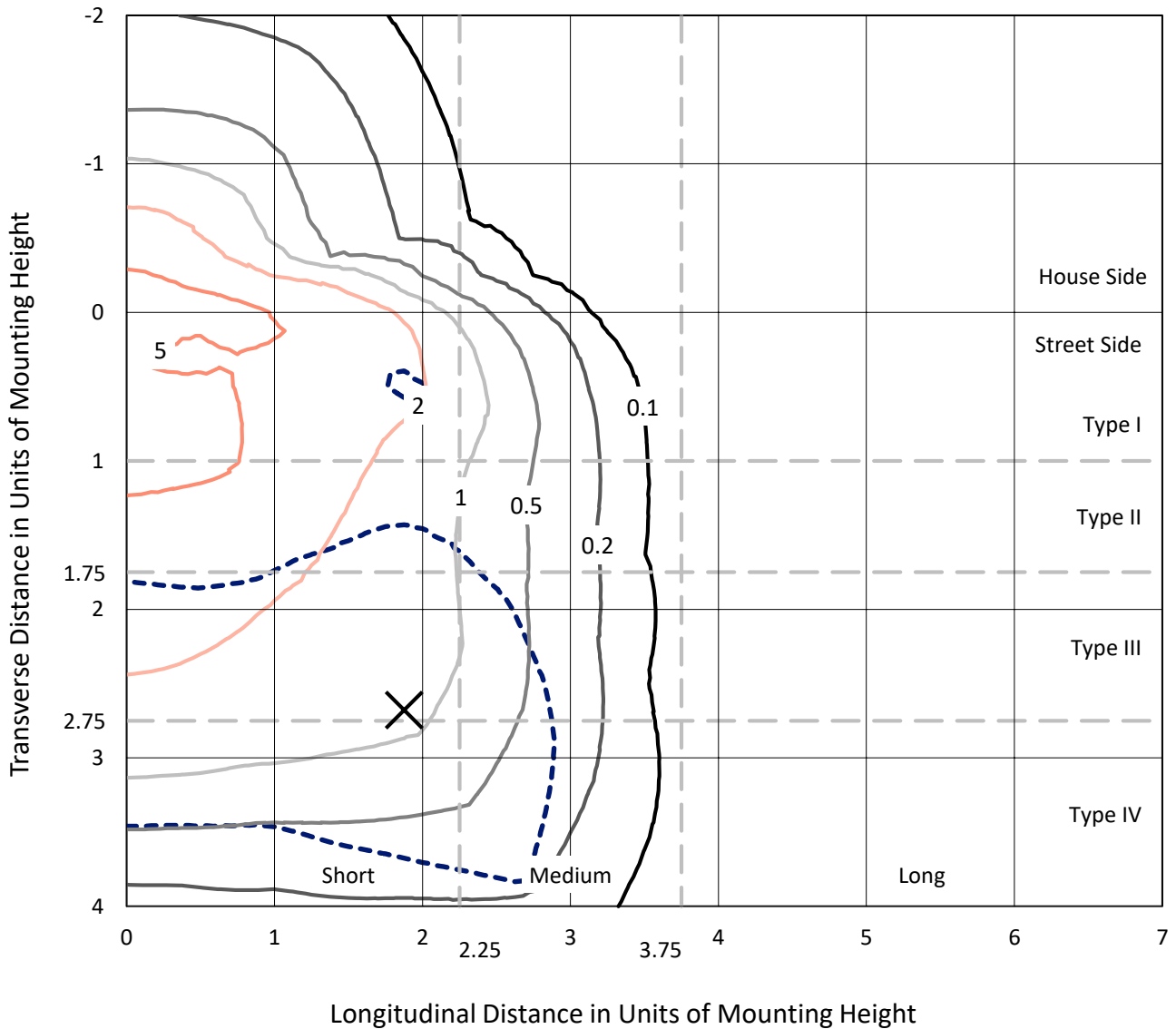
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191528
 CATALOG NUMBER: GLEON-AF-10-LED-E1-T4FT-800

Iso-Footcandle Lines of Horizontal Illumination

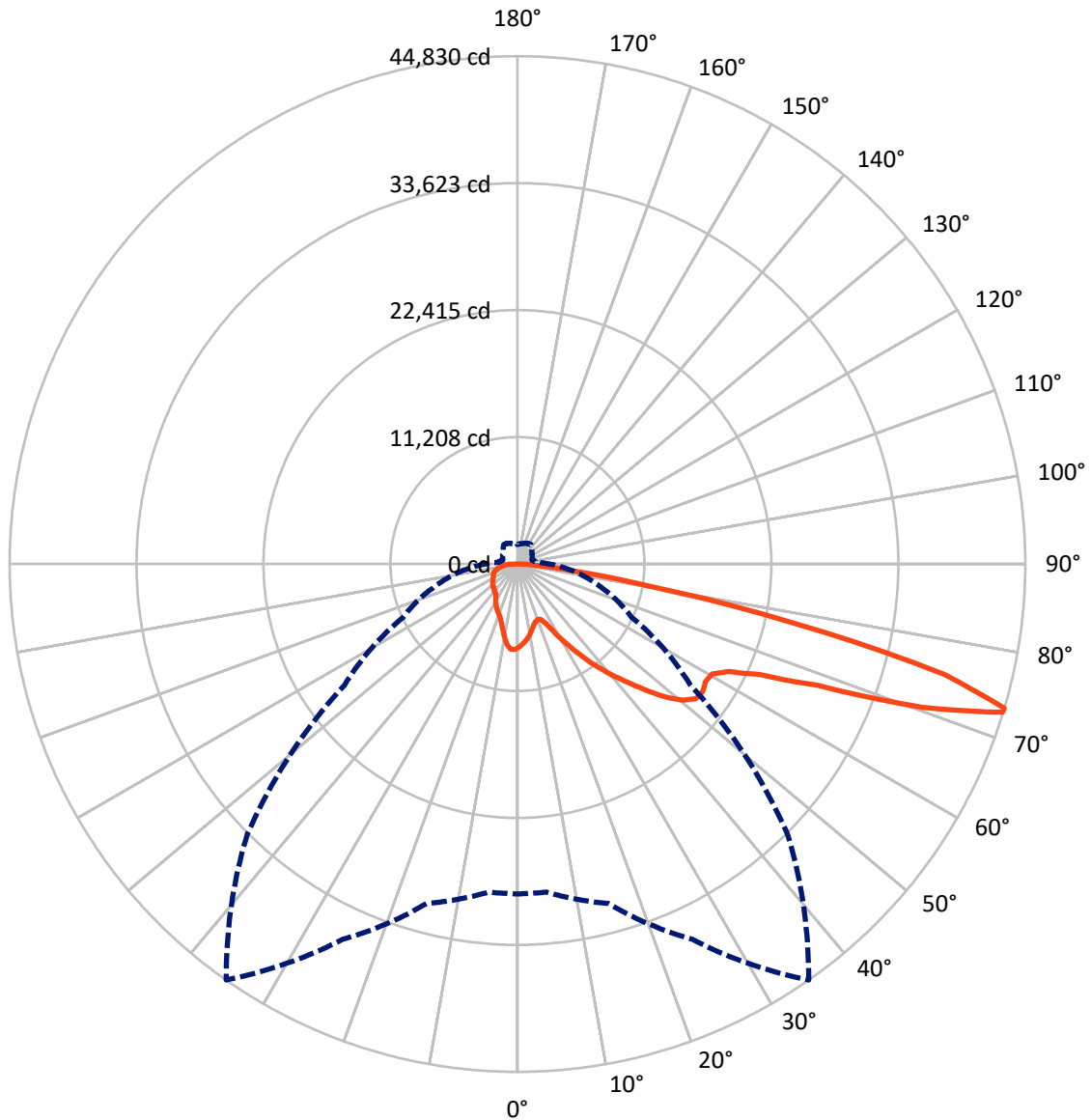
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191528
CATALOG NUMBER: GLEON-AF-10-LED-E1-T4FT-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191528

CATALOG NUMBER: GLEON-AF-10-LED-E1-T4FT-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9343.2	0.0	9343.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	39643.9	0.0	39643.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	48987.1	0.0	48987.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.3	1.4
10°-20°	1670.6	3.4
20°-30°	2700.7	5.5
30°-40°	4528.7	9.2
40°-50°	6980.8	14.3
50°-60°	9365.5	19.1
60°-70°	12476.8	25.5
70°-80°	9516.0	19.4
80°-90°	1078.6	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°	48987.1	100.0
0°-180°	48987.1	100.0



REPORT NUMBER: P191528

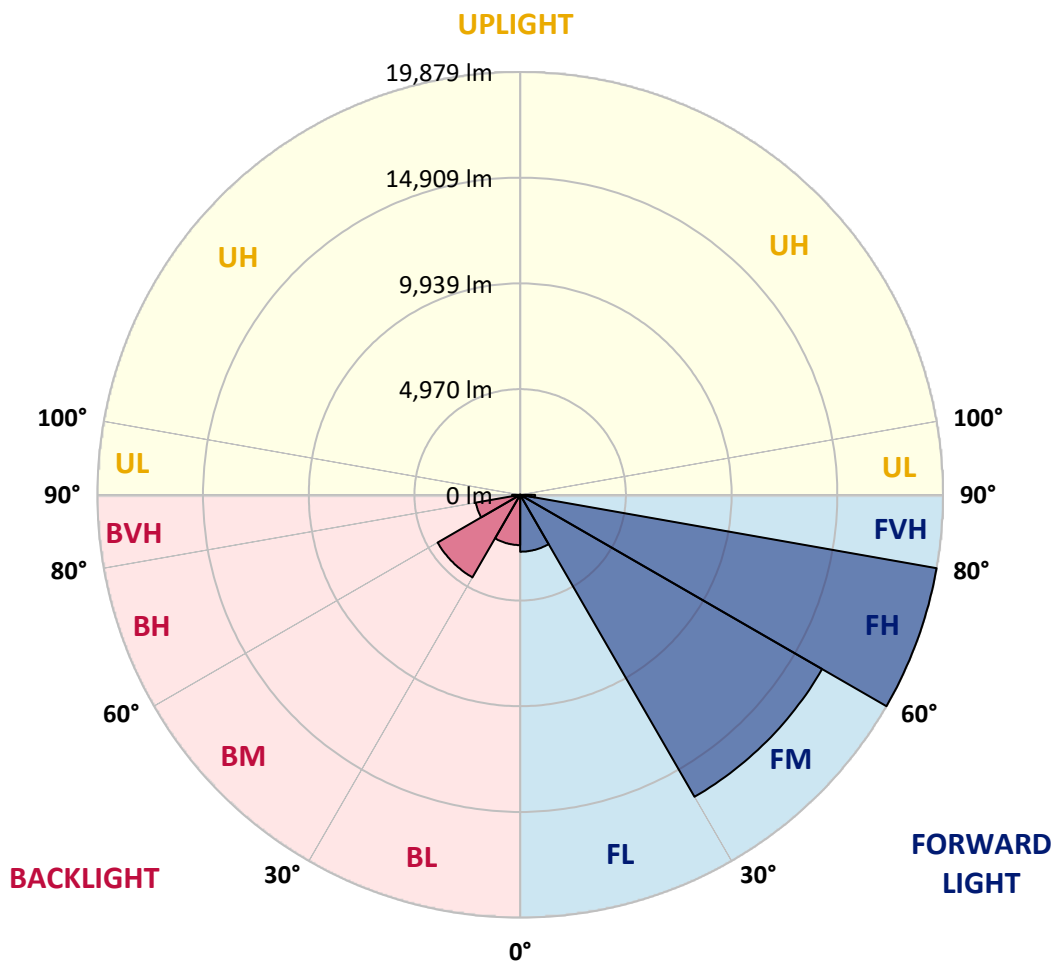
CATALOG NUMBER: GLEON-AF-10-LED-E1-T4FT-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2676.4	5.5			
FM	(30°-60°)	16391.4	33.5			
FH	(60°-80°)	19878.9	40.6			G5
FVH	(80°-90°)	697.2	1.4			G4/750
BL	(0°-30°)	2364.3	4.8	B3/2500		
BM	(30°-60°)	4483.7	9.2	B3/5000		
BH	(60°-80°)	2113.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	381.4	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: P191528

CATALOG NUMBER: GLEON-AF-10-LED-E1-T4FT-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7393.7	7393.7	7393.7	7393.7	7393.7	7393.7	7393.7	7393.7	7393.7	7393.7	7393.7
2.5°	7101.9	7116.1	7099.6	7120.8	7156.1	7193.7	7219.6	7257.2	7299.6	7358.4	7372.5
5°	6767.9	6789.1	6789.1	6826.8	6895.0	6956.2	7012.5	7073.7	7163.1	7264.3	7304.3
7.5°	6400.9	6412.7	6433.8	6490.3	6589.1	6676.2	6756.2	6855.0	6977.2	7111.3	7181.9
10°	5958.7	5975.2	6008.1	6088.1	6222.2	6342.1	6457.4	6593.8	6749.1	6916.2	7005.5
12.5°	5645.8	5641.2	5655.2	5714.0	5831.6	5977.5	6144.6	6318.6	6509.1	6704.4	6812.6
15°	5540.0	5514.1	5460.0	5445.9	5509.4	5655.2	5848.1	6062.2	6290.4	6525.6	6659.7
17.5°	5605.9	5561.2	5412.9	5304.7	5295.3	5405.9	5610.6	5850.5	6114.0	6400.9	6568.0
20°	6019.9	5914.0	5549.4	5297.7	5210.6	5264.7	5443.5	5697.5	6008.1	6389.1	6603.2
22.5°	7010.2	6855.0	6081.0	5612.9	5318.8	5253.0	5387.1	5657.5	6019.9	6535.0	6807.9
25°	8452.2	8231.2	6993.7	6398.6	5791.6	5441.2	5471.8	5749.3	6186.9	6873.8	7203.1
27.5°	9590.9	9447.4	8186.5	7506.6	6652.7	5949.3	5746.9	5979.9	6528.0	7429.0	7765.3
30°	10268.4	10181.3	9461.5	8762.8	7751.2	6758.5	6274.0	6412.7	7061.9	8198.2	8475.8
32.5°	11054.0	11002.2	10649.4	10007.2	8936.9	7821.8	7109.0	7059.6	7777.1	9122.7	9249.7
35°	11868.0	11851.5	11644.5	11183.4	10209.6	9223.8	8217.1	7883.0	8555.8	10082.5	10002.5
37.5°	12625.5	12597.2	12477.2	12209.1	11541.0	10729.4	9346.2	8727.5	9395.6	10999.9	10644.7
40°	14020.5	13799.3	13387.7	13185.3	12886.6	11997.4	10242.5	9515.6	10266.0	11875.0	11199.9
42.5°	15721.2	15361.3	14594.4	14316.8	14274.6	12997.1	10854.1	10280.1	11143.4	12743.1	11745.6
45°	17059.8	16721.1	16060.0	15709.5	15864.7	13902.8	11468.1	11096.4	12046.8	13653.4	12307.8
47.5°	18487.7	17956.1	17080.9	17186.8	17525.6	14759.1	12093.8	11973.8	13037.1	14672.1	13006.5
50°	18539.4	18132.5	17749.0	18381.8	18908.8	15547.2	12877.2	12893.7	14248.7	15954.1	13935.8
52.5°	17464.4	17377.4	17986.6	18981.7	19741.5	16170.6	13768.7	13844.0	15798.9	17426.8	14956.7
55°	17088.0	16989.2	17692.5	18772.4	19854.5	16685.8	14735.6	14872.1	17673.7	18979.3	15951.8
57.5°	18005.5	17786.7	17833.7	18673.6	19579.3	17250.3	15789.5	16064.7	19710.9	20336.7	16591.6
60°	20569.6	20101.5	19212.2	19191.1	19727.4	18097.2	17008.0	17344.4	21828.1	20985.9	16342.3
62.5°	24166.5	23698.3	22032.8	20948.3	20868.4	19494.6	18504.2	18593.6	23051.4	20106.2	14820.3
65°	28059.7	27640.9	25780.2	24248.7	23510.2	21809.3	20242.7	19151.1	22651.5	17685.5	12157.4
67.5°	32785.8	32336.4	30736.8	29323.0	28612.5	25545.0	21463.6	18617.1	20113.3	13700.5	8739.3
70°	36090.9	35632.1	35001.7	36147.4	37885.8	30934.3	21621.1	16445.8	15022.5	9106.2	5260.0
72.5°	31778.9	31564.8	32715.2	37539.9	44780.8	34204.3	19544.0	11973.8	8725.2	4834.3	3044.0
73°	29115.9	29068.9	31030.8	36563.7	44830.2	33700.8	18633.6	11129.3	7483.1	4276.8	2782.9
75°	13147.7	13526.5	17826.7	27928.0	38949.1	27770.4	13114.7	6384.4	4227.3	2954.7	2100.7
77.5°	3159.3	3291.0	5577.6	13263.0	24597.0	16549.3	5942.2	3156.9	2702.9	2086.6	1533.8
80°	1345.6	1390.3	2147.8	4900.1	11581.0	6664.4	2738.2	2114.8	1870.2	1456.2	1075.0
82.5°	748.1	795.1	1218.5	2223.1	4674.3	2272.5	1670.2	1472.6	1230.3	877.5	698.7
85°	423.4	449.3	712.8	1242.1	1980.7	912.8	999.7	978.7	694.0	451.6	343.4
87.5°	200.0	216.5	343.4	576.3	776.3	357.5	508.1	559.9	435.2	275.3	178.8
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: P191528
 CATALOG NUMBER: GLEON-AF-10-LED-E1-T4FT-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7393.7	7393.7	7393.7	7393.7	7393.7	7393.7	7393.7	7393.7	7393.7	7393.7
2.5°	7389.0	7431.3	7480.7	7506.6	7530.1	7558.4	7586.6	7586.6	7591.3	7593.7
5°	7337.2	7424.3	7501.9	7534.9	7541.9	7541.9	7534.9	7497.2	7464.3	7478.4
7.5°	7229.0	7356.0	7421.9	7410.2	7320.7	7217.2	7130.2	7024.3	6970.3	6960.9
10°	7073.7	7219.6	7231.3	7113.7	6892.6	6671.5	6488.0	6309.3	6224.6	6203.4
12.5°	6902.1	7036.1	6960.9	6718.5	6363.3	6041.0	5808.1	5627.0	5547.1	5525.9
15°	6763.2	6855.0	6664.4	6283.4	5836.3	5495.3	5302.4	5168.3	5111.8	5095.3
17.5°	6690.3	6709.1	6360.9	5845.8	5370.6	5085.9	4966.0	4902.5	4881.3	4869.6
20°	6725.6	6593.8	6071.6	5438.8	4989.4	4789.6	4761.3	4744.9	4740.1	4733.1
22.5°	6902.1	6558.5	5805.8	5053.0	4655.4	4568.4	4591.9	4589.6	4584.9	4580.2
25°	7217.2	6589.1	5547.1	4686.0	4375.5	4356.6	4399.0	4399.0	4380.2	4380.2
27.5°	7633.7	6652.7	5257.7	4337.8	4121.5	4123.8	4156.8	4147.3	4126.2	4112.1
30°	8141.8	6692.7	4919.0	4025.0	3883.8	3874.4	3883.8	3843.8	3780.3	3775.6
32.5°	8661.6	6643.2	4526.0	3747.4	3632.2	3611.0	3604.0	3547.5	3474.6	3453.4
35°	9132.1	6462.1	4126.2	3526.3	3392.2	3345.2	3378.1	3359.3	3293.4	3276.9
37.5°	9475.6	6125.7	3766.2	3331.0	3220.5	3208.7	3229.9	3236.9	3159.3	3142.8
40°	9706.1	5669.3	3458.1	3166.3	3187.5	3142.8	3072.2	3022.8	2999.3	2992.2
42.5°	9891.9	5194.1	3199.3	3088.7	3194.6	3065.2	2912.3	2832.3	2874.7	2893.5
45°	10106.0	4730.7	2982.9	2992.2	3159.3	2975.9	2801.8	2724.1	2740.6	2745.3
47.5°	10400.0	4166.2	2750.0	2837.1	3041.6	2914.7	2733.5	2622.9	2545.3	2510.0
50°	10807.1	3498.1	2507.7	2662.9	2926.5	2870.0	2627.7	2510.0	2366.5	2333.6
52.5°	11089.3	2874.7	2307.8	2517.1	2822.9	2780.6	2543.0	2390.0	2239.5	2211.3
55°	10936.5	2387.7	2133.7	2354.7	2686.5	2670.0	2472.4	2267.8	2150.1	2126.6
57.5°	10171.9	2079.6	1999.6	2201.9	2519.4	2575.9	2378.3	2164.3	2079.6	2063.1
60°	8713.4	1886.6	1914.9	2098.4	2383.0	2481.8	2284.2	2107.8	2051.3	2039.6
62.5°	6760.9	1757.2	1851.3	2023.1	2277.2	2415.9	2232.5	2100.7	2079.6	2065.4
65°	4843.7	1653.8	1783.1	1947.8	2180.7	2354.7	2213.7	2091.3	2096.0	2084.3
67.5°	3291.0	1562.0	1700.8	1863.1	2086.6	2300.7	2187.8	2058.4	2117.2	2103.1
70°	2303.1	1472.6	1604.4	1754.9	1969.0	2225.4	2140.7	2009.0	2004.3	1947.8
72.5°	1797.2	1355.0	1472.6	1604.4	1818.4	2119.6	2046.6	1898.4	1820.8	1761.9
73°	1714.9	1326.8	1439.7	1571.5	1785.5	2093.7	2020.7	1867.8	1780.8	1726.6
75°	1418.5	1204.4	1307.9	1425.6	1644.4	1971.3	1893.7	1729.0	1618.5	1585.6
77.5°	1115.0	1030.3	1129.1	1235.0	1449.1	1792.5	1705.5	1547.9	1486.8	1458.5
80°	825.7	854.0	941.0	1035.0	1256.2	1602.0	1524.4	1366.8	1639.7	1571.5
82.5°	581.0	646.9	726.9	811.6	1053.8	1416.2	1322.1	1159.7	1199.7	997.4
85°	343.4	423.4	498.7	571.6	759.8	1173.8	1091.5	924.5	757.5	722.2
87.5°	200.0	235.3	256.5	331.7	522.2	884.5	769.3	684.6	392.8	265.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)