

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: P193118

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193118
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-T2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55918.9 lumens
Efficiency: N/A
Efficacy: 100.2 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): 558
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



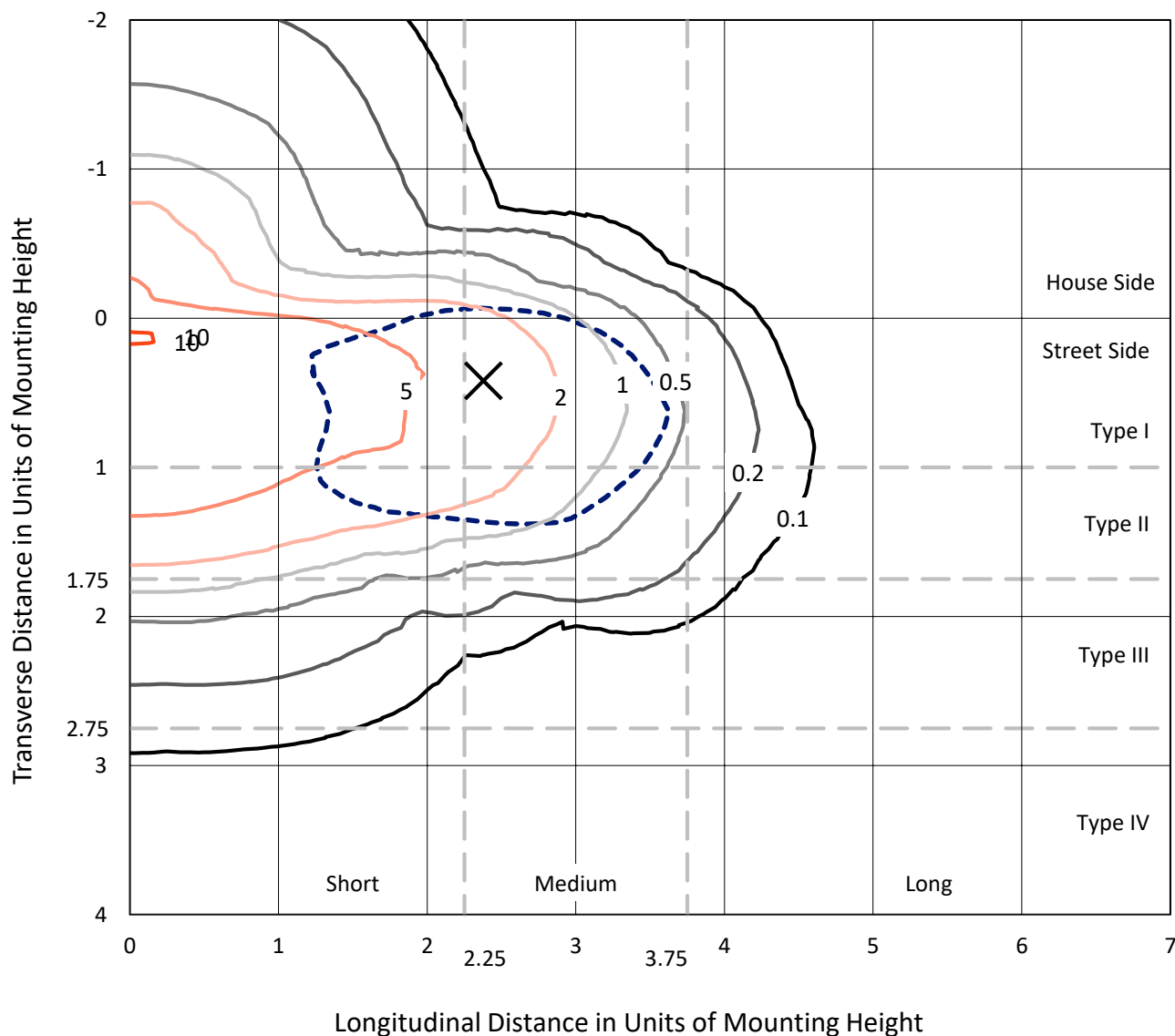
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

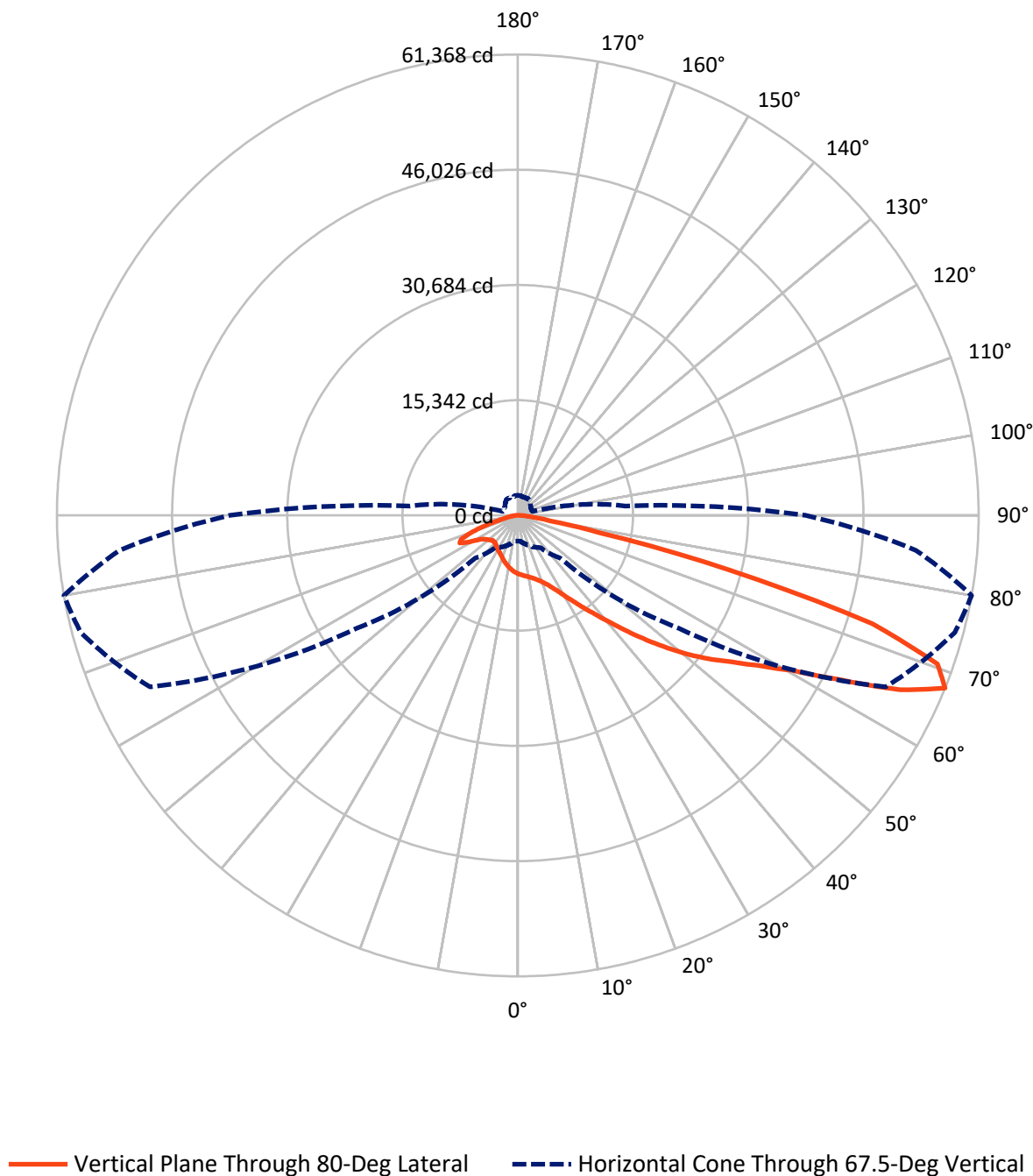


Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10298.1	0.0	10298.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	45620.8	0.0	45620.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	55918.9	0.0	55918.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.6	1.3
10°-20°	2064.4	3.7
20°-30°	3417.1	6.1
30°-40°	5589.4	10.0
40°-50°	9024.7	16.1
50°-60°	13029.0	23.3
60°-70°	14378.3	25.7
70°-80°	6627.5	11.9
80°-90°	1072.0	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°	55918.9	100.0
0°-180°	55918.9	100.0

Coefficient of Utilization



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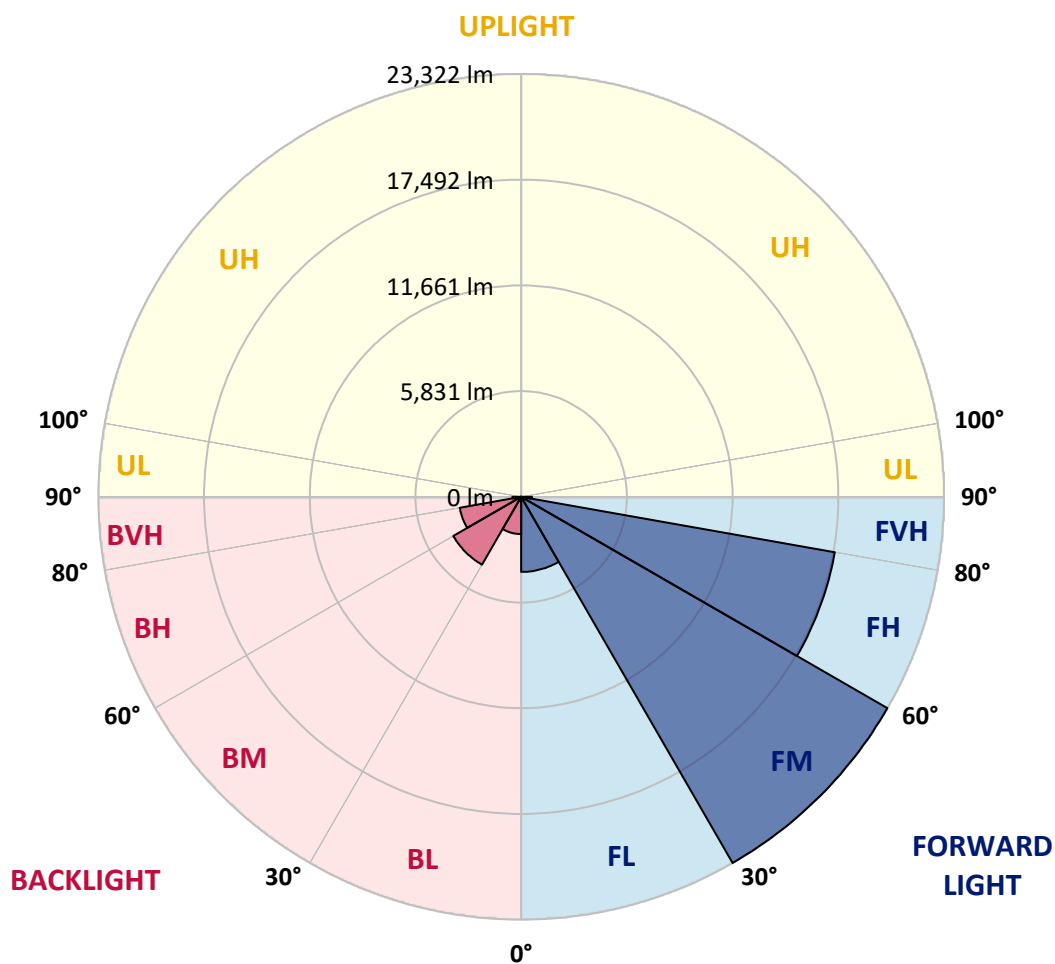
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4143.5	7.4			
FM	(30°-60°)	23322.3	41.7			
FH	(60°-80°)	17565.6	31.4			G5
FVH	(80°-90°)	589.3	1.1			G4/750
BL	(0°-30°)	2054.6	3.7	B3/2500		
BM	(30°-60°)	4320.7	7.7	B3/5000		
BH	(60°-80°)	3440.2	6.2	B4/5000		G4/5000
BVH	(80°-90°)	482.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	7768.8	7768.8	7768.8	7768.8	7768.8	7768.8	7768.8	7768.8	7768.8	7768.8	7768.8
2.5°	8498.3	8448.7	8457.0	8443.2	8401.9	8330.4	8253.2	8112.8	7966.9	7889.9	7829.3
5°	9208.6	9194.8	9175.5	9131.5	9026.9	8878.2	8693.8	8446.0	8178.9	8038.5	7903.7
7.5°	9739.8	9731.6	9706.8	9679.3	9577.4	9398.5	9120.4	8768.0	8379.8	8187.3	7978.0
10°	9783.9	9797.8	9817.0	9891.2	9905.0	9808.6	9525.1	9098.4	8589.1	8341.4	8074.4
12.5°	9409.5	9439.8	9514.1	9704.1	9905.0	10023.5	9877.5	9445.3	8834.1	8534.0	8195.4
15°	8914.0	8930.6	9021.3	9282.8	9643.6	10009.7	10147.2	9828.0	9150.7	8781.8	8377.1
17.5°	8702.0	8710.2	8773.6	8947.0	9282.8	9805.9	10298.7	10243.6	9538.9	9090.2	8600.2
20°	8594.7	8613.9	8704.8	8875.4	9087.4	9544.5	10320.7	10692.3	10001.4	9475.6	8880.9
22.5°	8900.3	8891.9	8925.0	9010.3	9189.2	9464.6	10304.2	11154.9	10590.5	9971.1	9247.0
25°	9613.1	9643.6	9585.7	9489.3	9547.2	9739.8	10392.3	11655.9	11328.3	10607.0	9726.0
27.5°	10629.1	10598.8	10513.5	10287.8	10169.3	10251.9	10684.1	12195.5	12245.0	11444.0	10359.3
30°	11642.1	11617.3	11534.7	11259.5	11017.2	10948.5	11251.2	12814.9	13338.0	12448.8	11135.6
32.5°	12693.7	12666.2	12589.2	12313.8	12022.1	11862.4	12057.9	13530.6	14626.3	13649.0	12049.5
35°	13990.4	13938.1	13775.6	13393.0	13106.6	12982.8	13073.6	14430.9	16112.9	15069.5	13158.9
37.5°	15209.9	15289.7	15124.5	14596.1	14224.4	14180.3	14282.2	15529.2	17715.1	16658.0	14433.5
40°	16435.0	16448.8	16300.1	15867.8	15485.2	15413.6	15669.6	16861.7	19606.3	18557.4	15983.5
42.5°	17701.3	17728.9	17478.3	17079.2	16798.4	16812.2	17103.9	18422.6	21775.7	20795.7	17767.4
45°	19201.7	19243.0	18967.6	18444.6	18188.6	18703.4	18582.3	20173.4	24154.2	23339.3	19815.6
47.5°	20770.8	20834.1	20625.0	20135.0	19815.6	20523.0	20060.5	22114.3	26714.4	26067.5	22064.7
50°	21627.0	21717.8	21921.6	21885.7	21817.0	21698.6	21709.6	24195.5	29354.4	28908.5	24377.2
52.5°	21167.3	21164.5	21907.8	22810.7	23774.3	23845.9	23719.2	26389.6	31821.1	31686.2	26554.7
55°	19064.0	19207.1	20333.1	22081.2	24713.1	26356.5	26731.0	28903.0	34243.7	34400.6	28765.3
57.5°	15562.4	15680.7	17200.2	19636.6	23446.7	27848.6	31014.5	32556.1	36952.6	37684.8	31708.2
60°	10554.8	10697.9	12308.4	15234.7	20038.5	27017.2	35091.6	39075.1	40195.5	41861.0	35837.6
62.5°	6202.3	6331.7	7644.9	9610.5	14108.7	23154.9	36881.0	48349.6	45346.2	48162.5	42136.3
65°	4269.8	4358.0	4996.5	5982.2	8107.4	15595.3	34662.1	54753.0	53271.9	55969.8	49439.9
67.5°	3435.6	3424.6	3931.1	4602.9	5219.6	8041.3	26210.6	54028.9	60242.3	61368.3	53230.6
70°	2830.1	2819.0	3163.2	3719.1	4170.7	4528.6	14276.7	45594.0	58821.8	59278.8	49739.8
72.5°	2367.5	2378.6	2598.7	3011.7	3421.9	3410.8	6273.8	32074.3	46273.9	49434.4	39650.4
75°	1998.7	2004.2	2150.0	2441.8	2777.7	2747.5	3402.7	17376.5	26898.9	29098.5	21979.3
77.5°	1701.2	1706.8	1800.4	1962.9	2202.3	2191.3	2483.1	7507.2	11220.9	11083.3	7518.2
80°	1516.8	1516.8	1560.9	1591.2	1723.3	1673.8	1841.7	3606.3	4743.3	4379.8	3000.7
82.5°	1189.3	1194.8	1464.5	1453.5	1357.2	1293.8	1293.8	2125.3	2513.4	2323.5	1756.4
85°	669.0	666.3	944.2	1139.7	1194.8	911.2	902.9	1189.3	1368.3	1205.7	850.7
87.5°	286.3	291.8	437.7	506.5	677.2	567.0	558.9	613.9	696.5	602.9	393.7
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°	7768.8	7768.8	7768.8	7768.8	7768.8	7768.8	7768.8	7768.8	7768.8	7768.8	7768.8
2.5°	7771.5	7699.9	7543.0	7347.5	7171.3	7055.8	6951.2	6799.7	6808.0	6703.4	6626.2
5°	7766.0	7617.3	7253.9	6821.7	6406.1	6106.0	5880.3	5676.6	5627.0	5530.6	5472.8
7.5°	7771.5	7529.3	6918.1	6227.1	5712.3	5332.4	5139.7	5032.4	5007.6	4974.6	4977.3
10°	7790.7	7449.4	6549.2	5671.0	5131.5	4880.9	4834.1	4867.2	4905.7	4916.7	4919.5
12.5°	7834.9	7377.8	6144.5	5175.5	4768.1	4690.9	4770.8	4883.7	4958.0	4993.8	4991.1
15°	7934.0	7322.8	5756.4	4787.3	4567.1	4608.4	4757.0	4916.7	5024.1	5073.7	5076.4
17.5°	8041.3	7242.9	5357.2	4490.0	4418.5	4523.0	4707.6	4894.7	5026.8	5081.8	5092.9
20°	8181.7	7143.8	4938.7	4267.0	4278.0	4396.4	4569.9	4757.0	4903.0	4949.8	4971.8
22.5°	8366.1	7036.6	4572.6	4085.3	4118.4	4209.2	4344.1	4506.5	4633.1	4655.2	4674.4
25°	8613.9	6920.8	4280.8	3920.2	3933.9	3986.3	4077.1	4173.4	4261.5	4236.7	4255.9
27.5°	8947.0	6821.7	4063.4	3768.8	3744.0	3755.0	3801.7	3832.0	3878.9	3810.1	3818.3
30°	9338.0	6714.4	3895.4	3636.5	3567.8	3548.5	3559.5	3576.0	3611.9	3518.2	3504.5
32.5°	9792.2	6585.0	3738.6	3521.0	3424.6	3386.1	3391.6	3435.6	3573.4	3515.5	3485.2
35°	10320.7	6439.0	3573.4	3394.3	3328.2	3273.2	3267.7	3405.4	3815.6	3779.8	3752.3
37.5°	10940.1	6293.3	3408.2	3251.2	3256.7	3196.2	3176.9	3333.8	3862.4	3721.9	3702.7
40°	11727.5	6216.1	3267.7	3099.8	3168.6	3160.4	3121.9	3201.7	3553.9	3298.0	3265.0
42.5°	12702.1	6227.1	3163.2	2937.3	3063.9	3152.1	3091.5	3094.3	3221.0	3028.2	2998.0
45°	13905.0	6356.4	3088.8	2808.0	2945.6	3143.8	3080.6	3036.5	3047.5	2945.6	2929.1
47.5°	15309.1	6623.6	3036.5	2700.7	2832.8	3113.6	3077.8	3019.9	2995.3	2940.1	2926.4
50°	16869.9	7011.7	2998.0	2598.7	2730.9	3063.9	3080.6	3003.4	2975.9	2954.0	2945.6
52.5°	18403.3	7455.0	2940.1	2510.7	2651.0	3003.4	3088.8	2986.9	2956.7	2940.1	2931.9
55°	20112.9	8008.2	2852.0	2436.4	2585.0	2926.4	3088.8	2962.1	2929.1	2931.9	2929.1
57.5°	22422.6	8903.0	2747.5	2373.0	2505.2	2832.8	3036.5	2934.6	2893.3	2896.0	2898.8
60°	26031.7	10480.3	2620.8	2309.7	2406.1	2722.6	2964.9	2874.1	2832.8	2843.8	2846.5
62.5°	31339.3	12795.6	2455.6	2216.1	2301.4	2604.3	2865.8	2796.9	2755.6	2783.2	2783.2
65°	36856.2	14838.3	2252.0	2097.8	2191.3	2474.8	2741.9	2700.7	2659.4	2722.6	2719.9
67.5°	38340.0	14381.2	2048.2	1968.3	2081.2	2331.7	2593.3	2571.2	2549.2	2659.4	2653.8
70°	34059.2	11545.8	1861.0	1836.2	1960.1	2177.5	2433.6	2433.6	2419.9	2502.4	2483.1
72.5°	25949.1	8187.3	1682.0	1695.8	1822.5	2009.6	2260.1	2279.4	2257.4	2298.7	2282.2
75°	13891.2	4685.5	1503.1	1541.6	1651.8	1839.0	2067.4	2086.8	2072.9	2070.3	2078.4
77.5°	4616.6	2290.4	1315.9	1376.4	1472.9	1662.8	1866.4	1896.7	1863.8	1858.2	1855.4
80°	2056.5	1439.8	1109.4	1189.3	1274.6	1461.8	1654.5	1679.4	1643.5	1693.1	1629.7
82.5°	1321.4	947.1	889.2	977.4	1060.0	1260.9	1442.5	1448.0	1415.0	1643.5	1401.2
85°	641.5	586.4	669.0	748.8	820.3	991.1	1194.8	1197.5	1114.9	1015.8	980.0
87.5°	319.4	341.3	446.0	517.6	553.3	679.9	869.9	853.5	817.6	743.3	685.5
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)