

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: P193208

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62523.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - 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



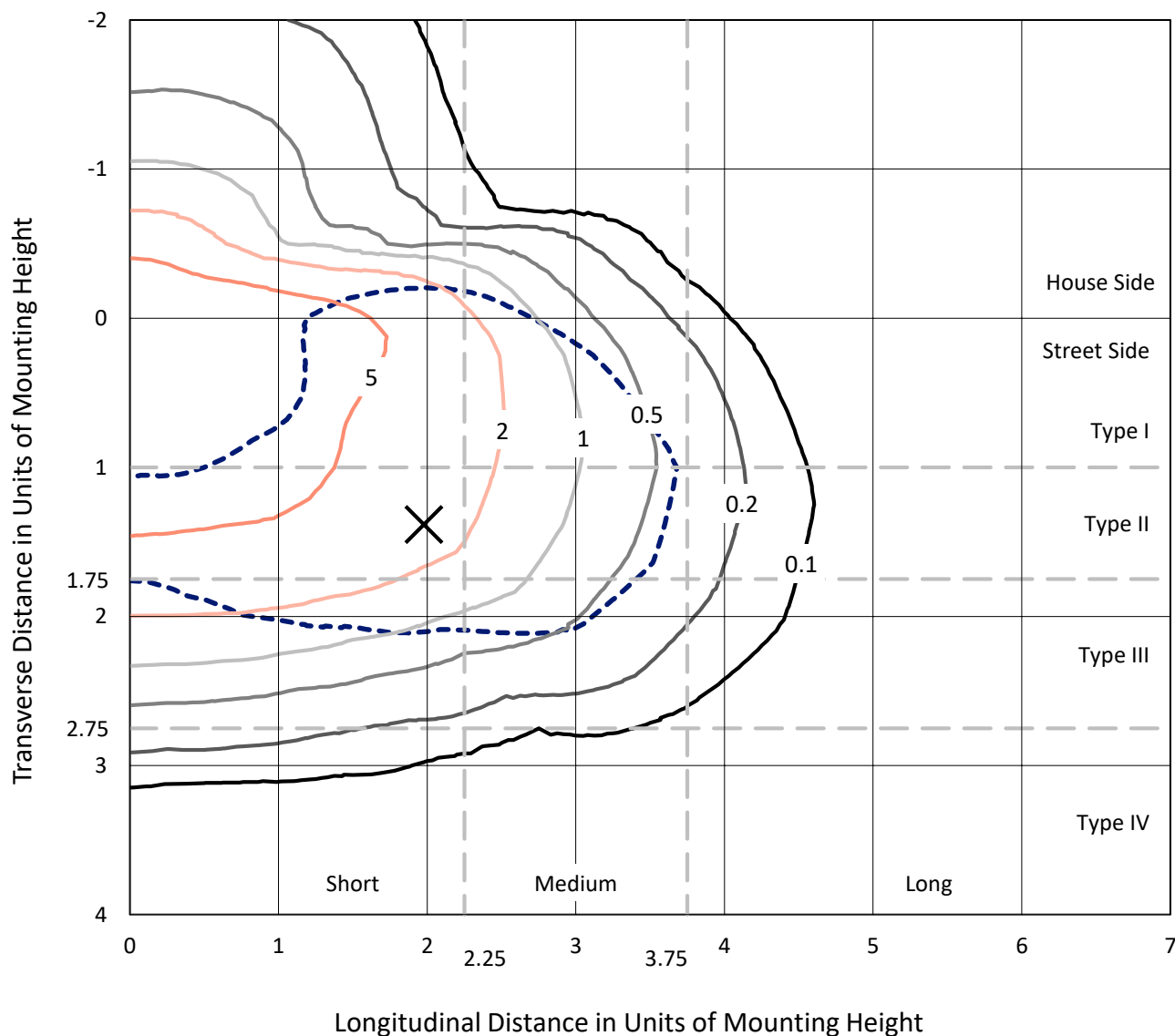
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

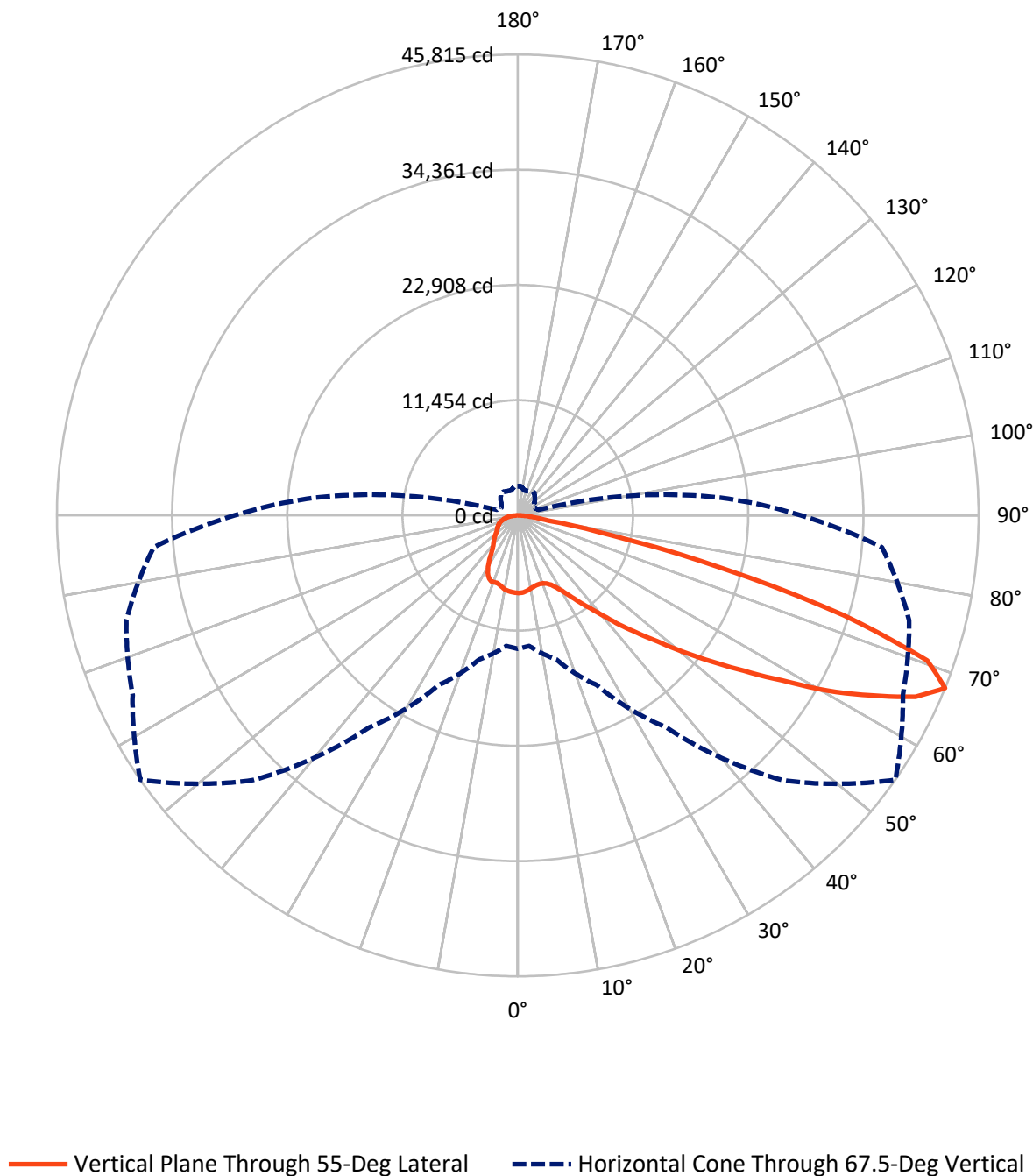


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13506.4	0.0	13506.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	49017.2	0.0	49017.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	62523.6	0.0	62523.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.6	1.2
10°-20°	2038.1	3.3
20°-30°	3414.1	5.5
30°-40°	5614.2	9.0
40°-50°	9450.5	15.1
50°-60°	14874.3	23.8
60°-70°	17750.9	28.4
70°-80°	7622.6	12.2
80°-90°	1039.3	1.7
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°	62523.6	100.0
0°-180°	62523.6	100.0

Coefficient of Utilization



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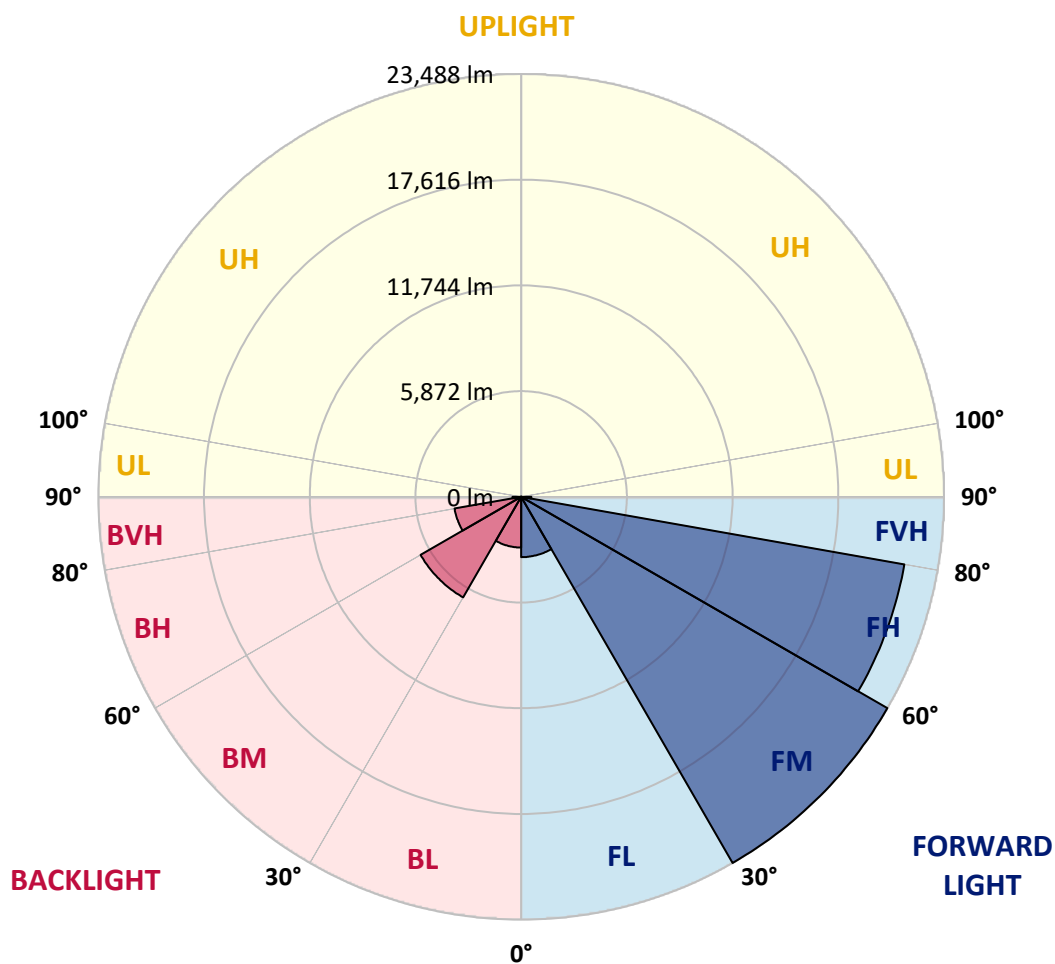
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3351.4	5.4			
FM	(30°-60°)	23488.5	37.6			
FH	(60°-80°)	21614.7	34.6			G5
FVH	(80°-90°)	562.6	0.9			G4/750
BL	(0°-30°)	2820.4	4.5	B4/5000		
BM	(30°-60°)	6450.5	10.3	B4/8500		
BH	(60°-80°)	3758.8	6.0	B4/5000		G4/5000
BVH	(80°-90°)	476.7	0.8			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7709.9	7709.9	7709.9	7709.9	7709.9	7709.9	7709.9	7709.9	7709.9	7709.9	7709.9
2.5°	7643.4	7646.4	7652.5	7676.7	7697.8	7691.8	7694.7	7682.7	7679.7	7661.5	7679.7
5°	7546.7	7555.9	7558.9	7598.1	7622.3	7628.3	7619.2	7604.1	7586.0	7568.0	7577.0
7.5°	7326.3	7350.5	7353.4	7407.9	7447.1	7498.5	7501.5	7504.5	7495.4	7483.3	7501.5
10°	7187.4	7193.4	7190.5	7229.6	7259.8	7317.2	7350.5	7407.9	7432.1	7438.1	7450.2
12.5°	7178.4	7172.4	7163.2	7163.2	7154.2	7178.4	7238.8	7320.3	7377.6	7395.8	7410.8
15°	7275.0	7272.0	7241.7	7196.5	7139.1	7121.0	7172.4	7262.9	7338.4	7377.6	7392.7
17.5°	7492.5	7474.3	7426.1	7323.3	7199.5	7151.1	7157.2	7232.8	7320.3	7371.6	7386.7
20°	7891.0	7891.0	7788.3	7595.0	7374.7	7259.8	7205.5	7250.8	7335.3	7404.8	7426.1
22.5°	8579.6	8585.6	8413.5	8096.4	7724.9	7480.3	7344.4	7335.3	7435.0	7513.5	7537.7
25°	9555.0	9530.9	9289.2	8836.3	8271.6	7866.8	7631.3	7577.0	7661.5	7749.1	7779.3
27.5°	10690.5	10602.9	10316.0	9769.4	9038.6	8446.8	8084.3	7996.6	8078.3	8177.9	8208.1
30°	11813.8	11723.3	11382.1	10784.1	9971.8	9222.8	8703.4	8561.4	8676.2	8818.2	8836.3
32.5°	12937.3	12937.3	12556.8	11859.2	10974.3	10149.9	9527.9	9358.7	9548.9	9721.2	9760.3
35°	14281.2	14287.2	13918.7	13079.2	12128.0	11255.3	10569.7	10445.8	10732.7	10853.6	10947.2
37.5°	15933.1	15966.3	15492.2	14477.5	13435.6	12517.5	11702.2	11533.1	11820.0	12149.1	12451.0
40°	17717.8	17760.1	17237.8	15987.5	14945.6	13985.1	13103.5	12798.4	13275.5	13903.7	14293.3
42.5°	19421.1	19638.5	19134.1	17847.7	16727.3	15733.8	14839.8	14395.9	14993.8	15942.1	16280.4
45°	21882.3	22039.3	21160.6	19994.9	18940.8	17829.6	16645.7	16177.7	17014.2	18210.1	18279.5
47.5°	23522.1	23404.3	22957.4	22232.6	21565.3	20526.3	18744.6	18231.2	19342.6	20749.9	20360.3
50°	24394.9	24431.1	24370.8	24413.0	24437.2	23784.8	21317.6	20614.0	21939.7	23639.9	22743.0
52.5°	25210.3	24968.7	25168.0	26158.6	27354.3	27112.8	24117.1	23383.2	24724.1	26847.0	25261.7
55°	25192.1	24823.7	25473.0	27221.5	29815.6	30093.5	27260.7	26415.2	27668.5	30286.7	27931.1
57.5°	24301.2	24319.4	25318.9	27608.0	31530.9	32895.9	30908.8	29640.5	30791.0	33771.7	30368.3
60°	23075.2	23241.3	24681.7	27544.7	32904.9	35194.0	35384.3	33116.4	33850.2	36939.6	32385.5
62.5°	21097.1	21272.2	23259.4	26886.3	32696.6	37407.6	39431.0	37060.4	37048.2	38860.2	32977.5
65°	17977.5	17926.1	20013.0	24425.1	30948.1	39044.5	43450.5	40469.8	39458.2	38890.5	31787.7
67.5°	13257.4	13028.0	14818.8	18602.7	25723.7	37211.4	45815.1	42245.6	40279.6	36332.6	28151.6
70°	6879.4	6649.8	8099.4	10862.7	16917.6	29042.5	43196.8	41327.6	38464.6	30455.8	22054.4
72.5°	2941.4	2902.2	3491.1	4765.5	8183.9	16751.5	33871.4	35770.9	33004.7	22691.6	15163.0
75°	1978.0	1966.0	2186.4	2597.1	3681.3	6797.8	21196.8	25391.5	24147.3	14069.8	8528.2
77.5°	1552.2	1537.2	1667.0	1866.2	2385.7	2681.7	9407.0	13632.0	12617.3	6124.4	3732.7
80°	1214.0	1202.0	1283.5	1392.2	1715.3	1691.2	3095.5	5423.7	4197.6	2346.5	1815.1
82.5°	957.3	957.3	1023.8	1026.8	1217.0	1153.6	1615.6	2388.7	2095.8	1368.0	1111.2
85°	875.8	875.8	945.2	767.1	794.2	727.7	1002.6	1416.3	1328.8	561.7	483.2
87.5°	440.9	428.9	794.2	679.5	431.9	386.6	489.3	685.5	736.9	311.1	241.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7709.9	7709.9	7709.9	7709.9	7709.9	7709.9	7709.9	7709.9	7709.9	7709.9
2.5°	7673.6	7670.5	7676.7	7679.7	7703.8	7736.9	7752.2	7773.2	7785.4	7779.3
5°	7583.0	7589.0	7613.1	7631.3	7673.6	7728.0	7758.2	7782.3	7803.6	7794.4
7.5°	7507.5	7522.6	7558.9	7574.0	7598.1	7613.1	7610.2	7619.2	7637.3	7616.3
10°	7465.2	7483.3	7510.5	7489.4	7432.1	7350.5	7275.0	7235.7	7247.8	7232.8
12.5°	7423.0	7447.1	7426.1	7326.3	7166.2	7060.6	7003.2	7009.2	7036.4	7042.5
15°	7398.8	7407.9	7317.2	7130.0	6966.9	6951.8	6982.0	6975.9	6979.1	6979.1
17.5°	7398.8	7374.7	7205.5	7018.3	6948.8	6921.7	6828.0	6710.2	6659.0	6640.8
20°	7438.1	7374.7	7169.3	7045.5	6894.5	6662.0	6414.3	6196.8	6100.3	6073.0
22.5°	7555.9	7447.1	7272.0	7057.5	6628.8	6239.1	5846.6	5586.9	5411.7	5381.4
25°	7794.4	7673.6	7474.3	6897.5	6205.9	5650.3	5203.4	4913.4	4738.2	4714.1
27.5°	8211.2	8132.6	7583.0	6544.2	5644.3	5049.3	4635.6	4412.1	4282.2	4273.1
30°	8839.3	8800.1	7528.6	6021.8	4952.6	4466.4	4267.1	4137.3	4040.6	4037.6
32.5°	9841.8	9524.7	7350.5	5384.6	4321.5	4052.8	3971.1	3892.7	3817.2	3817.2
35°	11131.5	10110.7	7012.3	4702.0	3937.9	3823.2	3720.5	3596.7	3497.1	3491.1
37.5°	12647.5	10473.0	6405.3	4152.4	3756.8	3669.2	3518.1	3333.9	3158.8	3128.6
40°	14178.5	10581.8	5550.6	3814.1	3642.0	3515.2	3331.0	3113.6	2944.4	2935.4
42.5°	15582.8	10373.4	4644.6	3581.6	3527.2	3358.2	3164.9	2971.7	2838.8	2835.8
45°	16760.5	9832.9	3883.6	3361.2	3406.4	3216.1	3044.1	2887.0	2784.4	2763.2
47.5°	17868.8	9068.8	3349.2	3128.6	3285.7	3137.7	2992.7	2844.8	2745.1	2730.0
50°	19155.4	8244.3	2974.6	2902.2	3180.0	3110.5	3035.0	2880.9	2714.9	2696.7
52.5°	20713.6	7531.7	2681.7	2702.8	3098.5	3146.7	3143.7	2983.7	2693.8	2669.6
55°	22453.1	6740.4	2461.3	2539.7	3065.3	3213.2	3170.9	3080.3	2712.0	2675.6
57.5°	24165.4	5816.3	2307.2	2415.9	3016.8	3207.2	3041.0	2911.2	2754.2	2702.8
60°	25448.7	4575.1	2189.4	2307.2	2911.2	3107.5	2899.0	2727.0	2745.1	2705.8
62.5°	25533.4	3536.2	2047.5	2213.6	2751.1	3007.8	2805.4	2645.5	2784.4	2748.1
65°	24032.4	2672.6	1911.6	2101.8	2578.9	2944.4	2714.9	2600.2	2865.9	2826.6
67.5°	20233.4	2150.2	1796.9	1987.1	2406.9	2811.6	2633.3	2557.9	2938.4	2868.9
70°	14607.3	1833.1	1685.1	1848.2	2252.8	2660.6	2560.9	2482.4	2742.1	2633.3
72.5°	8993.3	1588.5	1558.2	1664.0	2135.0	2503.4	2452.3	2340.5	2470.3	2382.7
75°	4490.7	1377.1	1416.3	1482.7	1969.0	2325.4	2271.0	2159.3	2177.3	2159.3
77.5°	2150.2	1177.9	1250.3	1301.6	1754.6	2123.0	2065.6	1950.9	1929.7	1932.8
80°	1362.0	984.5	1054.0	1090.2	1567.4	1887.5	1830.1	1715.3	1957.0	1815.1
82.5°	851.5	800.4	818.4	884.8	1364.9	1642.8	1567.4	1464.6	1763.7	1395.2
85°	471.1	558.7	582.9	640.3	1051.0	1374.1	1298.5	1168.7	1047.9	1029.8
87.5°	280.9	332.1	341.2	383.5	706.7	993.6	878.8	833.5	691.6	688.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)