

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: P192298

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60239 lumens
Efficiency: N/A
Efficacy: 108.0 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

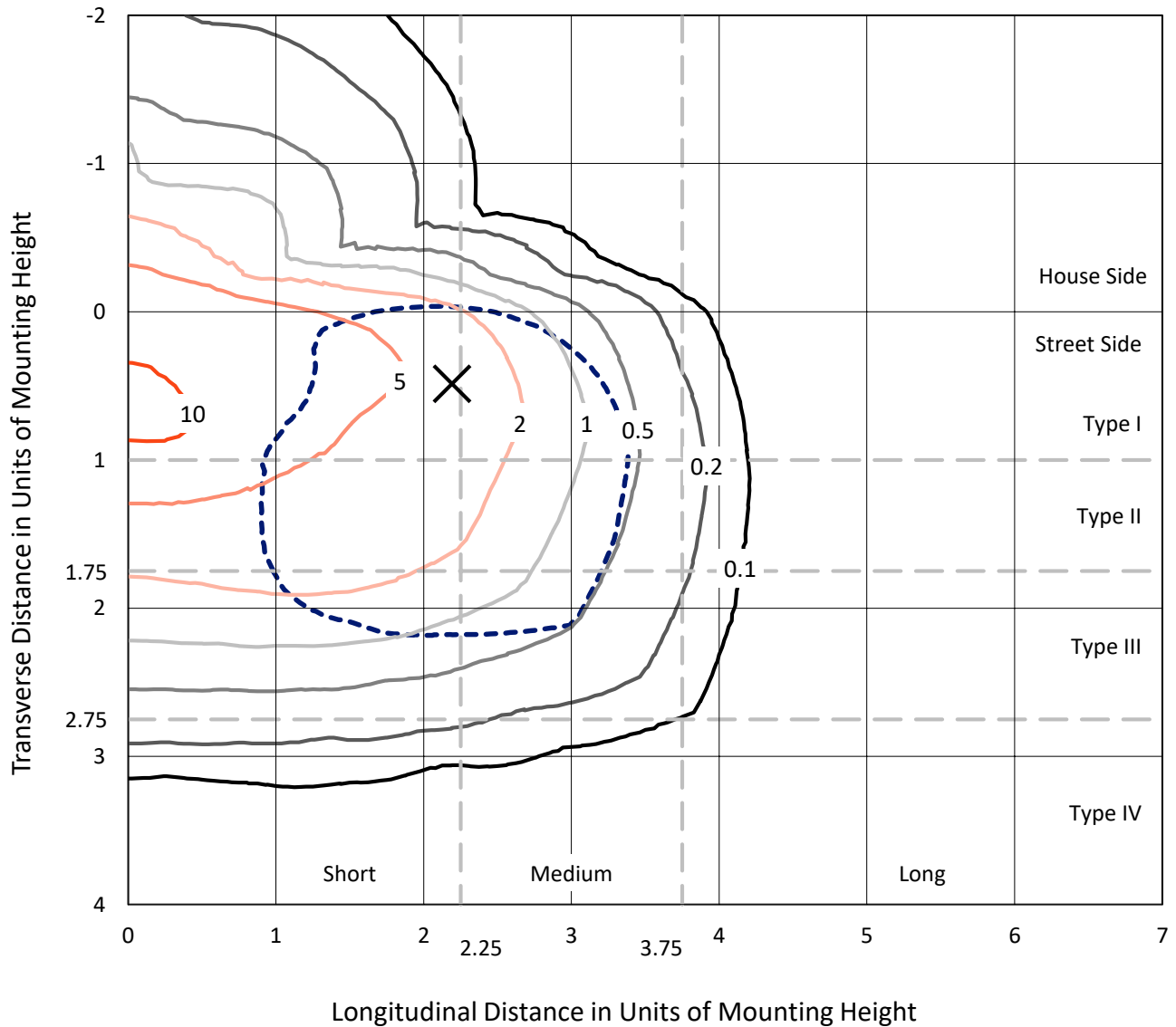
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

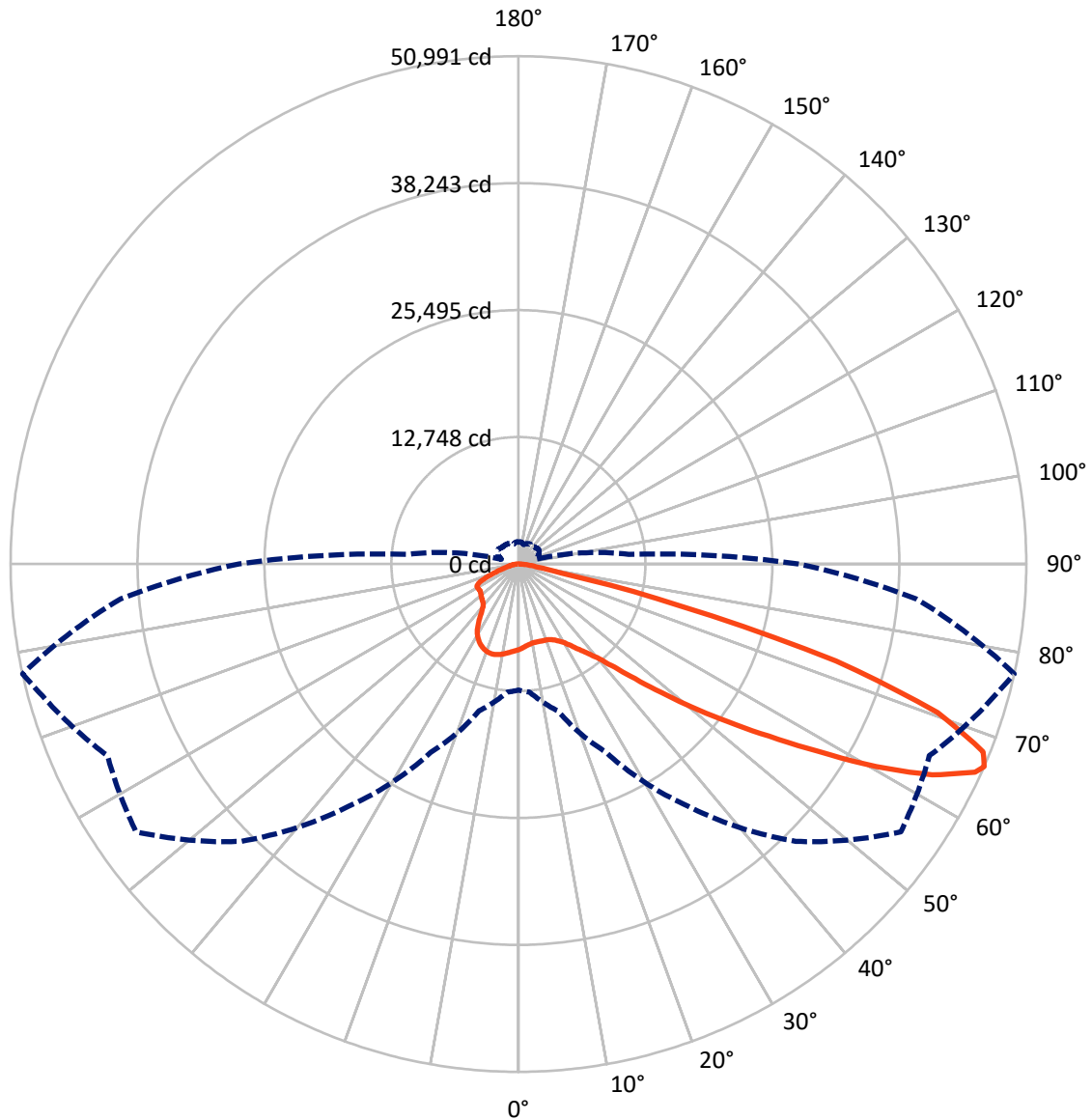
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10291.5	0.0	10291.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	49947.6	0.0	49947.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	60239.0	0.0	60239.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.9	1.3
10°-20°	2163.7	3.6
20°-30°	3692.6	6.1
30°-40°	5911.2	9.8
40°-50°	9132.3	15.2
50°-60°	12952.8	21.5
60°-70°	17327.3	28.8
70°-80°	7524.9	12.5
80°-90°	767.3	1.3
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°	60239.0	100.0
0°-180°	60239.0	100.0



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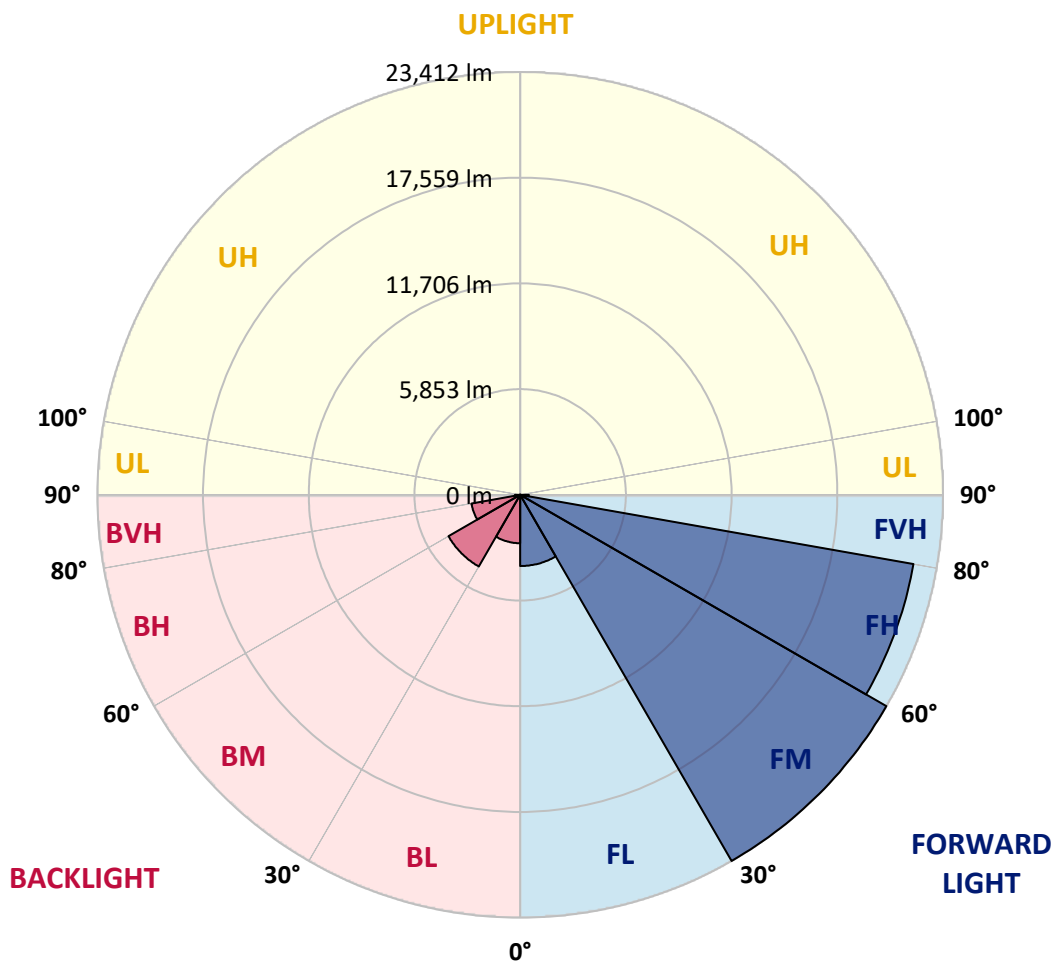
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3942.9	6.5			
FM	(30°-60°)	23412.0	38.9			
FH	(60°-80°)	22111.4	36.7			G5
FVH	(80°-90°)	481.2	0.8			G3/500
BL	(0°-30°)	2680.3	4.4	B4/5000		
BM	(30°-60°)	4584.3	7.6	B3/5000		
BH	(60°-80°)	2740.8	4.5	B4/5000		G4/5000
BVH	(80°-90°)	286.1	0.5			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°	77.5°	85°
0°	8584.3	8584.3	8584.3	8584.3	8584.3	8584.3	8584.3	8584.3	8584.3	8584.3	8584.3
2.5°	7593.8	7645.1	7687.8	7727.6	7807.3	7938.2	8089.1	8211.5	8388.0	8422.1	8516.0
5°	6896.5	6896.5	6930.7	6990.4	7098.6	7295.0	7499.9	7773.2	8157.4	8248.5	8499.0
7.5°	6557.8	6560.6	6580.6	6631.8	6725.7	6905.0	7129.9	7451.5	7972.4	8123.2	8550.2
10°	6683.0	6654.6	6611.9	6586.3	6600.5	6705.8	6919.3	7277.9	7858.5	8052.1	8664.0
12.5°	7383.2	7329.1	7181.1	6984.7	6796.9	6720.0	6845.3	7195.4	7810.2	8035.0	8814.9
15°	8527.4	8504.6	8228.6	7821.5	7366.1	6984.7	6899.4	7164.1	7815.9	8054.9	8994.2
17.5°	9961.9	9930.6	9566.3	8974.3	8231.4	7488.5	7090.1	7189.7	7835.8	8089.1	9167.8
20°	11410.7	11313.9	10921.1	10215.3	9261.8	8174.5	7406.0	7255.1	7861.4	8126.1	9350.0
22.5°	12492.3	12412.6	12059.6	11373.7	10275.0	8968.6	7830.1	7369.0	7943.9	8234.3	9574.8
25°	13442.9	13448.6	13098.5	12435.3	11299.7	9811.1	8376.6	7673.5	8154.6	8456.3	9882.2
27.5°	14618.4	14550.1	14222.8	13565.3	12313.0	10662.1	9036.9	8091.9	8467.6	8772.2	10286.4
30°	16024.5	15976.1	15597.5	14851.8	13437.2	11575.8	9791.2	8578.7	8871.8	9187.8	10815.8
32.5°	17678.2	17655.4	17262.6	16303.4	14735.1	12651.7	10676.4	9221.9	9475.2	9802.5	11575.8
35°	19619.3	19622.2	19158.2	18005.5	16155.4	13904.0	11681.1	10050.2	10209.6	10551.1	12480.9
37.5°	20814.8	20959.9	20786.3	19610.8	17763.6	15304.4	12984.7	11148.8	11046.4	11390.8	13451.5
40°	21070.9	21247.4	21796.7	21199.0	19562.4	16847.1	14140.3	12204.8	12076.7	12498.0	14701.0
42.5°	20712.3	20957.1	22118.3	22539.6	21472.2	18748.4	15694.3	13773.1	13610.9	14177.3	16255.0
45°	20498.8	20681.0	22024.4	23236.9	23128.8	20897.3	17672.5	15742.7	15682.9	16425.8	18048.2
47.5°	20128.8	20293.9	21586.1	23399.2	24102.2	22866.9	20049.1	18150.7	18267.3	19240.8	20071.9
50°	20328.0	20396.4	21096.5	22986.5	24384.0	24310.0	22704.7	20940.0	21338.5	22553.8	22363.1
52.5°	20299.6	20476.1	21039.6	22309.0	24421.0	25200.9	25320.4	24051.0	24890.6	26285.3	24904.8
55°	16411.6	16736.1	20370.7	22138.3	24551.9	26074.7	27648.6	27329.9	28895.3	30520.5	27773.9
57.5°	15671.6	15876.5	17891.6	22496.9	25246.4	27742.6	30238.7	30938.9	33557.5	35444.6	31269.1
60°	15526.4	15779.7	17866.0	22935.2	26655.3	30460.8	34078.4	35308.0	39230.1	41296.5	35322.2
62.5°	15073.8	15347.1	17698.1	22878.3	28656.2	34220.7	38993.9	39953.1	44609.6	46619.0	38712.1
65°	13639.3	13895.5	16329.0	21959.0	30005.4	38233.9	44811.6	44211.1	48856.2	50367.6	40402.8
66°	12657.4	12907.8	15250.3	20877.4	29692.3	39372.4	46872.3	45528.9	49806.8	50990.9	40072.6
67.5°	10861.4	11057.8	13155.4	18455.2	28027.2	39691.2	48605.7	46519.4	49906.5	50324.9	38185.5
70°	6862.4	6919.3	8550.2	12739.9	21216.1	34422.8	45967.2	44060.2	45790.8	44657.9	32012.0
72.5°	2977.2	2957.3	4104.3	6481.0	12011.3	23097.5	37183.6	36355.4	35919.9	33335.5	22408.7
75°	1656.5	1679.3	2131.9	3008.5	4881.3	11345.2	24324.2	23276.8	19653.5	16770.2	10161.2
77.5°	1329.2	1360.5	1767.5	2134.7	2191.6	3956.3	11382.2	9261.8	5575.8	4474.3	2823.5
80°	1050.3	1107.2	1542.7	1662.2	1477.2	1630.9	3677.4	2940.2	2205.9	2023.7	1463.0
82.5°	831.1	871.0	1323.5	1258.1	1033.2	1098.7	1761.8	1716.3	1434.5	1306.4	845.3
85°	597.7	671.7	1087.3	947.8	677.4	740.0	1169.8	1121.4	822.6	671.7	372.9
87.5°	244.8	318.8	768.5	629.0	378.6	344.4	583.5	549.3	389.9	284.6	185.0
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°	8584.3	8584.3	8584.3	8584.3	8584.3	8584.3	8584.3	8584.3	8584.3	8584.3	8584.3
2.5°	8575.8	8644.1	8732.3	8786.4	8814.9	8834.8	8866.1	8863.3	8871.8	8874.7	8886.0
5°	8632.7	8746.6	8874.7	8908.8	8908.8	8877.5	8846.2	8795.0	8775.0	8769.4	8775.0
7.5°	8780.7	8906.0	9017.0	8977.1	8891.7	8766.5	8604.3	8462.0	8385.1	8359.5	8353.8
10°	8968.6	9119.4	9165.0	9014.1	8763.7	8462.0	8140.3	7906.9	7773.2	7736.2	7724.8
12.5°	9196.3	9338.6	9276.0	8957.2	8493.3	8006.6	7562.5	7189.7	6910.7	6822.5	6816.8
15°	9446.8	9557.8	9338.6	8780.7	8089.1	7371.8	6580.6	5937.3	5590.1	5479.1	5470.5
17.5°	9680.2	9737.1	9301.6	8473.3	7494.2	6332.9	5282.7	4787.4	4667.9	4696.3	4702.0
20°	9879.4	9879.4	9176.4	8032.2	6557.8	4963.9	4300.7	4292.2	4377.6	4462.9	4480.0
22.5°	10098.6	9967.6	8957.2	7408.8	5231.4	4061.6	3964.9	4044.5	4141.3	4235.2	4249.5
25°	10369.0	10038.8	8652.7	6463.9	4112.9	3688.8	3725.8	3791.2	3839.6	3899.4	3907.9
27.5°	10670.7	10129.9	8251.3	5163.1	3569.2	3455.4	3483.8	3506.6	3500.9	3523.7	3529.4
30°	11032.1	10235.2	7702.0	4036.0	3344.4	3256.1	3204.9	3185.0	3185.0	3222.0	3236.2
32.5°	11516.0	10391.7	6913.6	3458.2	3236.2	3113.8	2948.7	2874.7	2903.2	3028.4	3056.9
35°	12048.3	10559.7	5846.2	3261.8	3213.4	3048.4	2792.2	2655.6	2658.4	2775.1	2812.1
37.5°	12628.9	10773.1	4676.4	3224.8	3264.7	3051.2	2709.6	2521.8	2444.9	2444.9	2459.2
40°	13371.8	10992.3	3785.5	3250.4	3372.8	3085.4	2667.0	2416.5	2200.2	2205.9	2217.2
42.5°	14339.5	11180.1	3307.4	3304.5	3503.8	3130.9	2664.1	2277.0	2089.2	2217.2	2333.9
45°	15415.4	11274.1	3096.7	3352.9	3609.1	3159.4	2618.6	2254.2	2103.4	2484.8	2706.8
47.5°	16653.5	11220.0	2980.0	3370.0	3634.7	3159.4	2567.3	2308.3	2203.0	2877.6	3136.6
50°	18011.2	11063.4	2866.2	3335.8	3626.1	3153.7	2615.7	2362.4	2240.0	2945.9	3125.2
52.5°	19607.9	10932.5	2746.6	3261.8	3566.4	3122.4	2672.6	2339.6	2123.3	2678.3	2803.6
55°	21429.6	10969.5	2612.9	3156.5	3472.4	3062.6	2652.7	2248.6	2000.9	2359.6	2436.4
57.5°	23757.8	11410.7	2453.5	3022.7	3344.4	2963.0	2581.6	2205.9	1963.9	2140.4	2185.9
60°	26356.4	12179.2	2254.2	2889.0	3185.0	2803.6	2527.5	2225.8	1981.0	2123.3	2146.1
62.5°	28263.4	12626.0	2083.5	2692.6	2968.7	2627.1	2459.2	2251.4	2026.5	2183.1	2177.4
65°	28781.5	11891.7	1870.0	2405.1	2675.5	2442.1	2373.8	2279.9	2046.5	2231.5	2205.9
66°	28055.7	11100.4	1776.1	2271.3	2527.5	2351.0	2331.1	2277.0	2037.9	2237.2	2194.5
67.5°	26293.8	9478.1	1613.8	2074.9	2291.2	2214.4	2262.8	2251.4	2015.2	2231.5	2171.7
70°	21443.8	6466.7	1380.4	1727.7	1907.0	1949.7	2131.9	2160.3	1941.2	2131.9	2000.9
72.5°	14982.8	3939.2	1221.0	1340.6	1542.7	1662.2	1952.5	2035.1	1841.5	1861.5	1736.2
75°	7240.9	2092.0	1107.2	1038.9	1198.3	1389.0	1736.2	1864.3	1685.0	1556.9	1511.4
77.5°	2257.1	1278.0	939.3	836.8	939.3	1121.4	1451.6	1633.8	1500.0	1303.6	1286.5
80°	1212.5	939.3	723.0	671.7	742.9	879.5	1141.4	1363.4	1289.4	1169.8	1044.6
82.5°	799.8	609.1	535.1	520.9	566.4	671.7	848.2	1130.0	1130.0	1001.9	728.6
85°	412.7	372.9	367.2	367.2	395.6	446.9	577.8	871.0	927.9	529.4	438.3
87.5°	204.9	213.5	199.2	207.8	222.0	219.2	276.1	438.3	523.7	321.6	267.5
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)