

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: P193222

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193222
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-04-LED-E1-T3R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19183.8 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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



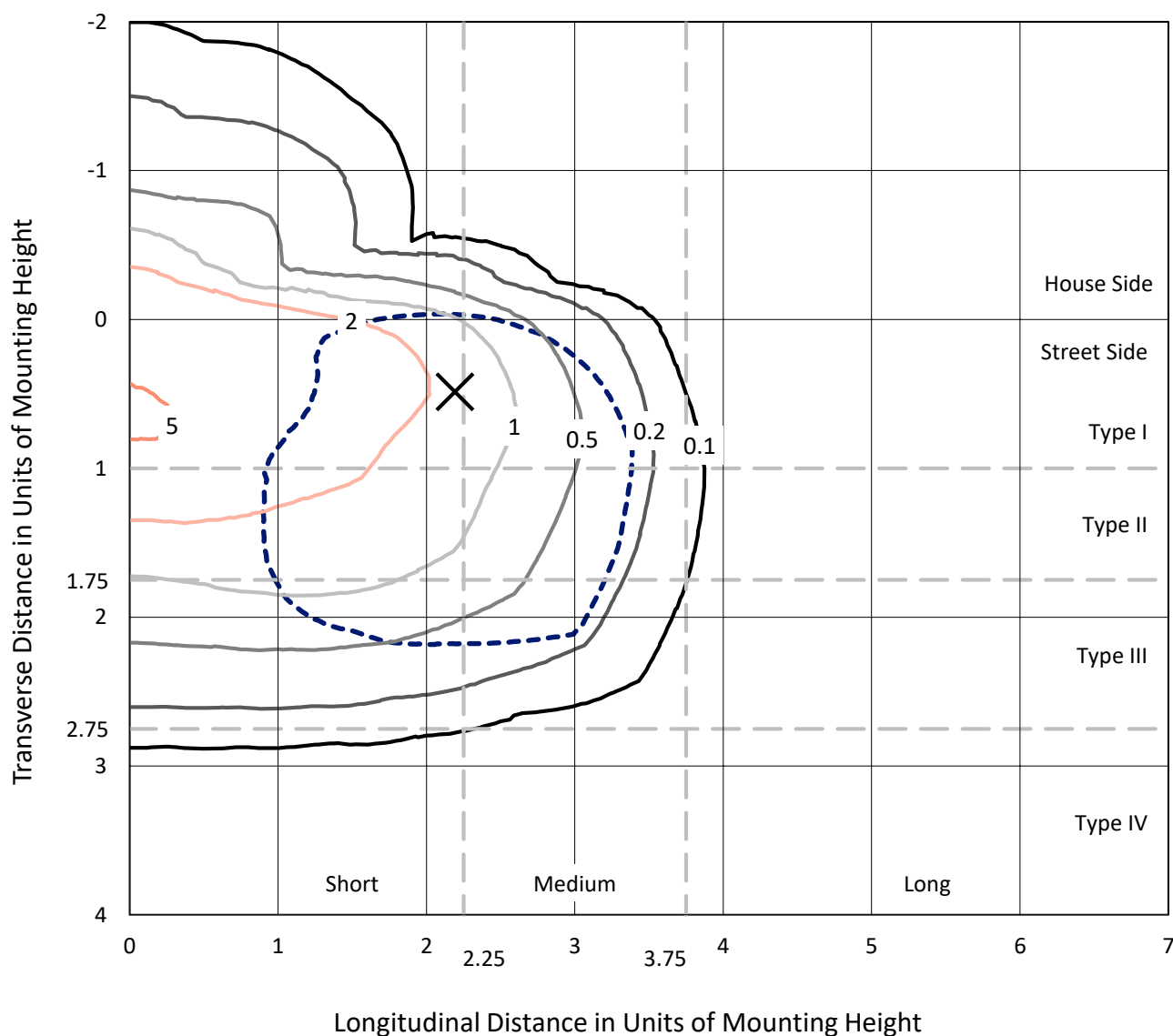
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

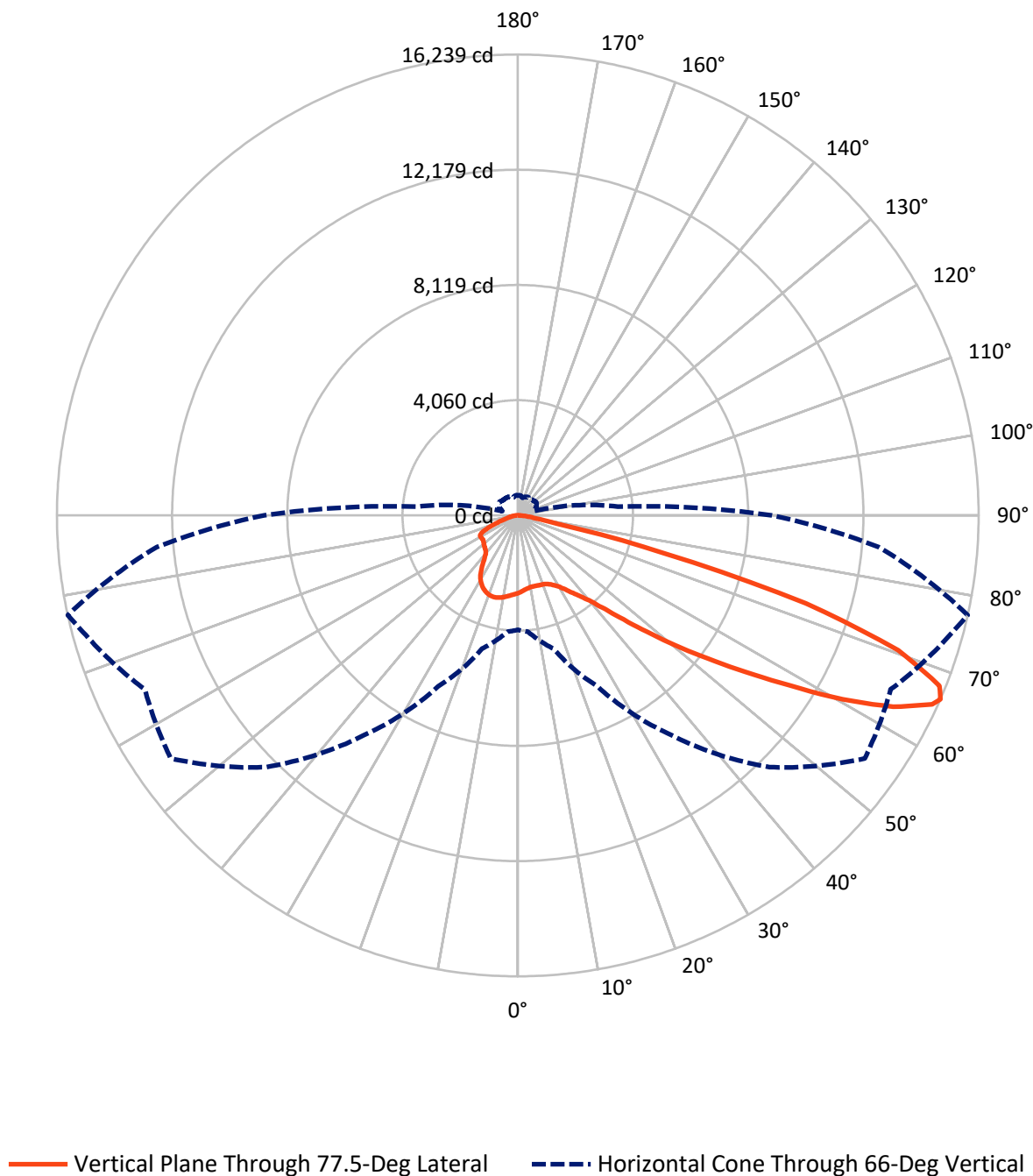


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3277.4	0.0	3277.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	15906.3	0.0	15906.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	19183.8	0.0	19183.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	1.3
10°-20°	689.0	3.6
20°-30°	1176.0	6.1
30°-40°	1882.5	9.8
40°-50°	2908.3	15.2
50°-60°	4124.9	21.5
60°-70°	5518.1	28.8
70°-80°	2396.4	12.5
80°-90°	244.4	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°	19183.8	100.0
0°-180°	19183.8	100.0

Coefficient of Utilization



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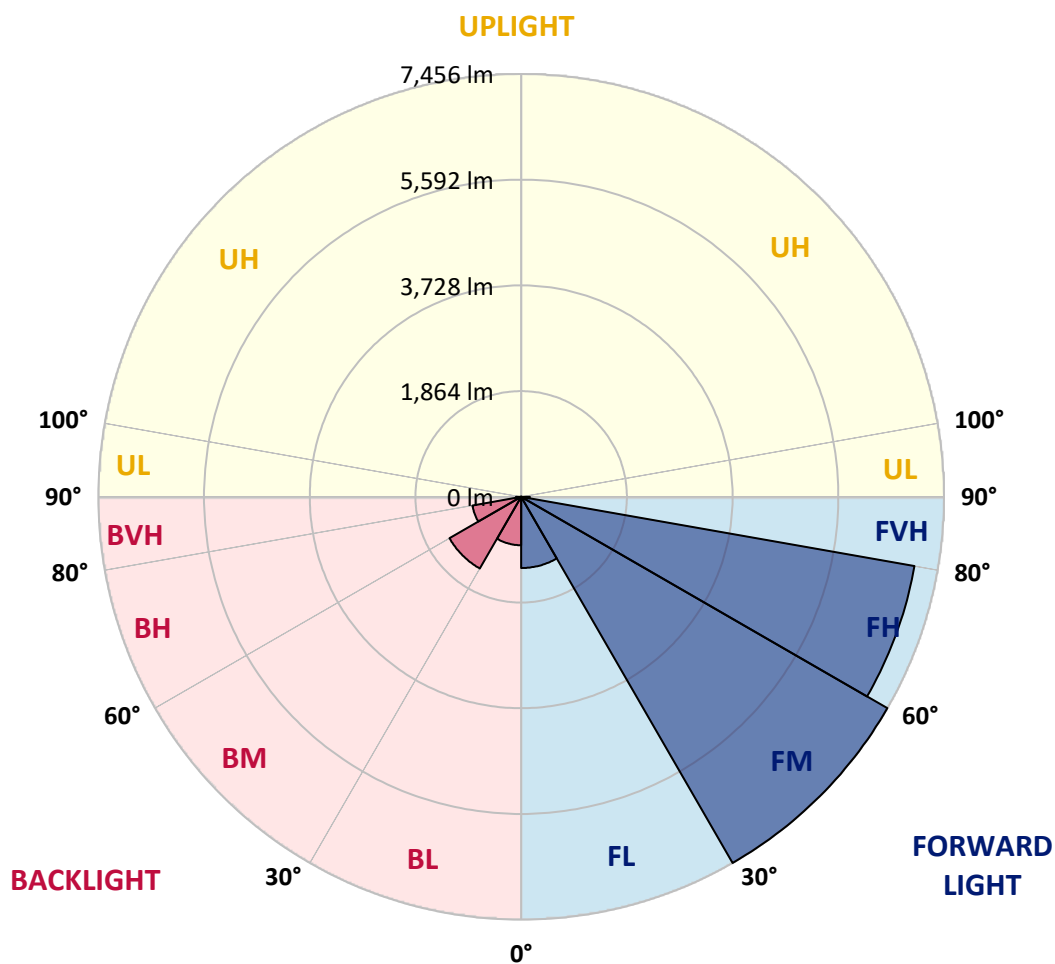
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1255.7	6.5			
FM	(30°-60°)	7455.8	38.9			
FH	(60°-80°)	7041.6	36.7			G3/7500
FVH	(80°-90°)	153.3	0.8			G2/225
BL	(0°-30°)	853.6	4.4	B2/1000		
BM	(30°-60°)	1459.9	7.6	B2/2500		
BH	(60°-80°)	872.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	91.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2733.7	2733.7	2733.7	2733.7	2733.7	2733.7	2733.7	2733.7	2733.7	2733.7	2733.7
2.5°	2418.4	2434.7	2448.3	2460.9	2486.3	2528.0	2576.0	2615.0	2671.3	2682.1	2712.1
5°	2196.2	2196.2	2207.1	2226.1	2260.6	2323.2	2388.4	2475.5	2597.8	2626.8	2706.6
7.5°	2088.4	2089.2	2095.7	2112.0	2141.9	2199.0	2270.6	2373.0	2538.8	2586.9	2722.8
10°	2128.3	2119.2	2105.7	2097.4	2102.0	2135.6	2203.5	2317.7	2502.6	2564.4	2759.2
12.5°	2351.3	2334.0	2286.9	2224.4	2164.5	2140.1	2179.9	2291.3	2487.2	2558.9	2807.2
15°	2715.6	2708.4	2620.5	2490.9	2345.8	2224.4	2197.2	2281.5	2489.0	2565.2	2864.3
17.5°	3172.5	3162.5	3046.4	2858.0	2621.3	2384.8	2258.0	2289.6	2495.4	2576.0	2919.6
20°	3633.9	3603.1	3477.9	3253.2	2949.5	2603.2	2358.5	2310.5	2503.5	2587.8	2977.7
22.5°	3978.3	3952.9	3840.6	3622.1	3272.2	2856.1	2493.7	2346.8	2529.8	2622.3	3049.2
25°	4281.0	4282.9	4171.4	3960.2	3598.5	3124.5	2667.6	2443.7	2596.9	2693.0	3147.1
27.5°	4655.4	4633.6	4529.5	4320.0	3921.2	3395.4	2877.9	2577.0	2696.6	2793.6	3275.8
30°	5103.2	5087.7	4967.3	4729.8	4279.2	3686.4	3118.2	2731.9	2825.3	2926.0	3444.4
32.5°	5629.8	5622.6	5497.5	5192.0	4692.5	4029.1	3400.0	2936.8	3017.5	3121.7	3686.4
35°	6248.0	6248.9	6101.1	5734.0	5144.9	4427.8	3720.0	3200.5	3251.3	3360.2	3974.7
37.5°	6628.6	6674.8	6619.6	6245.3	5657.0	4873.8	4135.1	3550.5	3517.8	3627.5	4283.7
40°	6710.2	6766.4	6941.4	6751.0	6229.9	5365.1	4503.1	3886.8	3845.9	3980.1	4681.6
42.5°	6596.1	6674.0	7043.8	7178.0	6838.1	5970.6	4998.1	4386.2	4334.6	4514.9	5176.6
45°	6528.0	6586.0	7013.9	7400.0	7365.6	6655.0	5628.0	5013.5	4994.3	5231.0	5747.6
47.5°	6410.2	6462.8	6874.3	7451.7	7675.6	7282.2	6384.9	5780.3	5817.4	6127.5	6392.1
50°	6473.7	6495.5	6718.5	7320.3	7765.4	7741.8	7230.6	6668.5	6795.5	7182.4	7121.7
52.5°	6464.7	6520.8	6700.4	7104.6	7777.1	8025.5	8063.6	7659.3	7926.6	8370.8	7931.2
55°	5226.4	5329.7	6487.3	7050.2	7818.8	8303.7	8804.9	8703.5	9202.1	9719.6	8844.9
57.5°	4990.8	5056.1	5697.8	7164.3	8040.0	8834.9	9629.9	9852.8	10686.7	11287.7	9958.0
60°	4944.5	5025.2	5689.6	7304.0	8488.7	9700.6	10852.6	11244.2	12493.2	13151.3	11248.7
62.5°	4800.5	4887.3	5636.1	7285.9	9125.9	10897.9	12418.0	12723.5	14206.3	14846.3	12328.3
65°	4343.6	4425.1	5200.2	6993.0	9555.5	12176.0	14270.8	14079.4	15558.7	16040.1	12866.7
66°	4030.9	4110.7	4856.6	6648.7	9455.9	12538.6	14927.0	14499.1	15861.5	16238.5	12761.6
67.5°	3458.9	3521.4	4189.4	5877.3	8925.6	12640.1	15479.0	14814.6	15893.3	16026.4	12160.5
70°	2185.4	2203.5	2722.8	4057.2	6756.5	10962.3	14638.8	14031.4	14582.5	14221.8	10194.6
72.5°	948.2	941.9	1307.1	2063.9	3825.0	7355.7	11841.5	11577.7	11439.1	10616.0	7136.3
75°	527.5	534.9	678.9	958.1	1554.5	3612.9	7746.3	7412.7	6258.8	5340.7	3235.9
77.5°	423.3	433.3	562.9	679.8	697.9	1260.0	3624.7	2949.5	1775.7	1424.8	899.2
80°	334.5	352.6	491.2	529.4	470.5	519.4	1171.1	936.4	702.4	644.5	465.9
82.5°	264.6	277.4	421.5	400.7	329.0	349.8	561.0	546.7	456.8	416.1	269.3
85°	190.3	213.9	346.3	301.9	215.7	235.7	372.6	357.2	262.0	213.9	118.8
87.5°	77.9	101.5	244.7	200.3	120.5	109.7	185.8	175.0	124.2	90.6	58.9
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°	2733.7	2733.7	2733.7	2733.7	2733.7	2733.7	2733.7	2733.7	2733.7	2733.7	2733.7
2.5°	2731.1	2752.8	2780.8	2798.1	2807.2	2813.5	2823.5	2822.6	2825.3	2826.2	2829.9
5°	2749.2	2785.4	2826.2	2837.1	2837.1	2827.1	2817.1	2800.9	2794.6	2792.6	2794.6
7.5°	2796.3	2836.2	2871.6	2858.9	2831.7	2791.8	2740.1	2694.8	2670.3	2662.2	2660.4
10°	2856.1	2904.2	2918.7	2870.7	2790.9	2694.8	2592.4	2518.1	2475.5	2463.7	2460.1
12.5°	2928.7	2973.9	2954.1	2852.5	2704.8	2549.8	2408.4	2289.6	2200.8	2172.7	2170.9
15°	3008.5	3043.8	2973.9	2796.3	2576.0	2347.7	2095.7	1890.8	1780.3	1744.9	1742.1
17.5°	3082.7	3100.9	2962.2	2698.3	2386.7	2016.8	1682.4	1524.6	1486.6	1495.6	1497.4
20°	3146.2	3146.2	2922.3	2558.0	2088.4	1580.8	1369.6	1366.9	1394.0	1421.3	1426.7
22.5°	3216.0	3174.3	2852.5	2359.5	1665.9	1293.5	1262.6	1288.0	1318.9	1348.8	1353.2
25°	3302.2	3196.9	2755.5	2058.5	1309.8	1174.7	1186.5	1207.4	1222.7	1241.8	1244.6
27.5°	3398.2	3226.0	2627.6	1644.3	1136.7	1100.4	1109.4	1116.7	1114.9	1122.2	1124.0
30°	3513.3	3259.5	2452.8	1285.3	1065.1	1037.0	1020.6	1014.3	1014.3	1026.1	1030.7
32.5°	3667.4	3309.4	2201.7	1101.4	1030.7	991.6	939.1	915.5	924.6	964.4	973.5
35°	3836.8	3362.8	1861.8	1038.7	1023.3	970.8	889.2	845.6	846.6	883.8	895.6
37.5°	4021.9	3430.8	1489.2	1026.9	1039.7	971.7	862.9	803.0	778.6	778.6	783.2
40°	4258.4	3500.5	1205.5	1035.1	1074.1	982.6	849.3	769.5	700.7	702.4	706.2
42.5°	4566.6	3560.4	1053.3	1052.3	1115.7	997.1	848.4	725.2	665.3	706.2	743.3
45°	4909.2	3590.4	986.2	1067.8	1149.3	1006.2	833.8	717.9	669.9	791.2	862.0
47.5°	5303.5	3573.1	949.0	1073.3	1157.5	1006.2	817.6	735.1	701.6	916.3	998.8
50°	5735.9	3523.3	912.8	1062.3	1154.8	1004.3	833.0	752.4	713.4	938.1	995.3
52.5°	6244.3	3481.5	874.7	1038.7	1135.8	994.4	851.1	745.0	676.2	853.0	892.8
55°	6824.5	3493.3	832.1	1005.1	1105.8	975.3	844.8	716.0	637.2	751.3	775.8
57.5°	7565.8	3633.9	781.3	962.6	1065.1	943.6	822.1	702.4	625.4	681.7	696.1
60°	8393.6	3878.6	717.9	920.1	1014.3	892.8	804.9	708.9	630.9	676.2	683.4
62.5°	9000.8	4020.8	663.5	857.4	945.4	836.6	783.2	717.0	645.4	695.2	693.5
65°	9165.8	3787.0	595.6	765.9	852.0	777.7	756.0	726.0	651.7	710.6	702.4
66°	8934.5	3535.1	565.6	723.3	804.9	748.8	742.3	725.2	649.0	712.5	698.8
67.5°	8373.5	3018.4	513.9	660.8	729.7	705.2	720.6	717.0	641.8	710.6	691.6
70°	6829.0	2059.4	439.7	550.2	607.3	620.9	678.9	688.0	618.2	678.9	637.2
72.5°	4771.5	1254.6	388.9	426.8	491.2	529.4	621.8	648.1	586.5	592.8	553.0
75°	2305.9	666.3	352.6	330.8	381.7	442.3	553.0	593.8	536.6	495.8	481.3
77.5°	718.8	407.0	299.2	266.5	299.2	357.2	462.2	520.3	477.7	415.1	409.7
80°	386.1	299.2	230.2	213.9	236.5	280.0	363.5	434.2	410.6	372.6	332.7
82.5°	254.7	193.9	170.5	165.8	180.4	213.9	270.1	359.9	359.9	319.0	232.0
85°	131.4	118.8	116.9	116.9	125.9	142.2	184.0	277.4	295.5	168.6	139.7
87.5°	65.2	68.0	63.5	66.2	70.7	69.8	88.0	139.7	166.7	102.3	85.2
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)