

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: P193692

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12910 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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

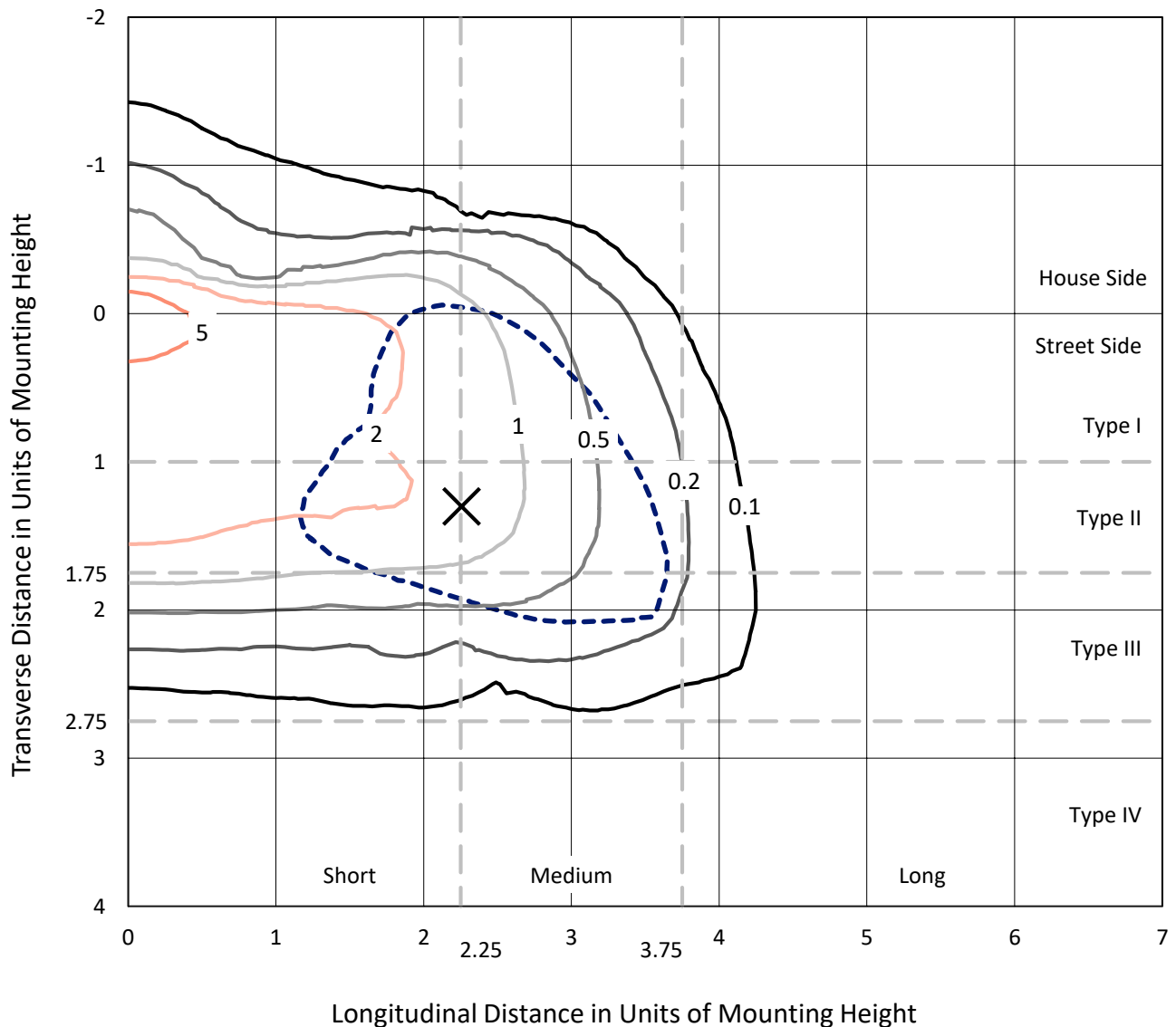


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

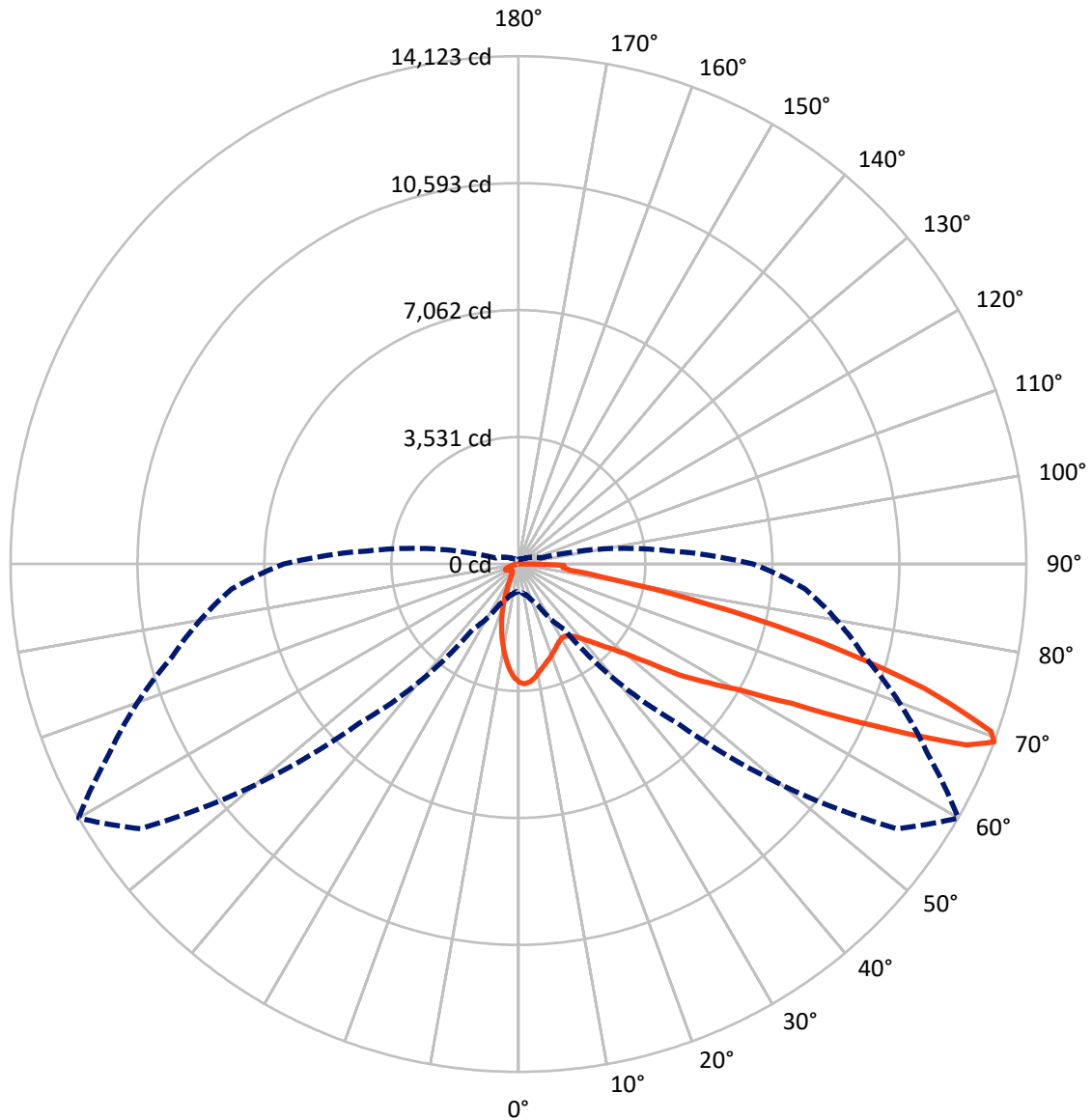


Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1836.7	0.0	1836.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11073.3	0.0	11073.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	12910.0	0.0	12910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.2	2.2
10°-20°	592.6	4.6
20°-30°	755.1	5.8
30°-40°	1038.1	8.0
40°-50°	1684.4	13.0
50°-60°	2701.3	20.9
60°-70°	3595.3	27.8
70°-80°	1941.2	15.0
80°-90°	323.9	2.5
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°	12910.0	100.0
0°-180°	12910.0	100.0

Coefficient of Utilization



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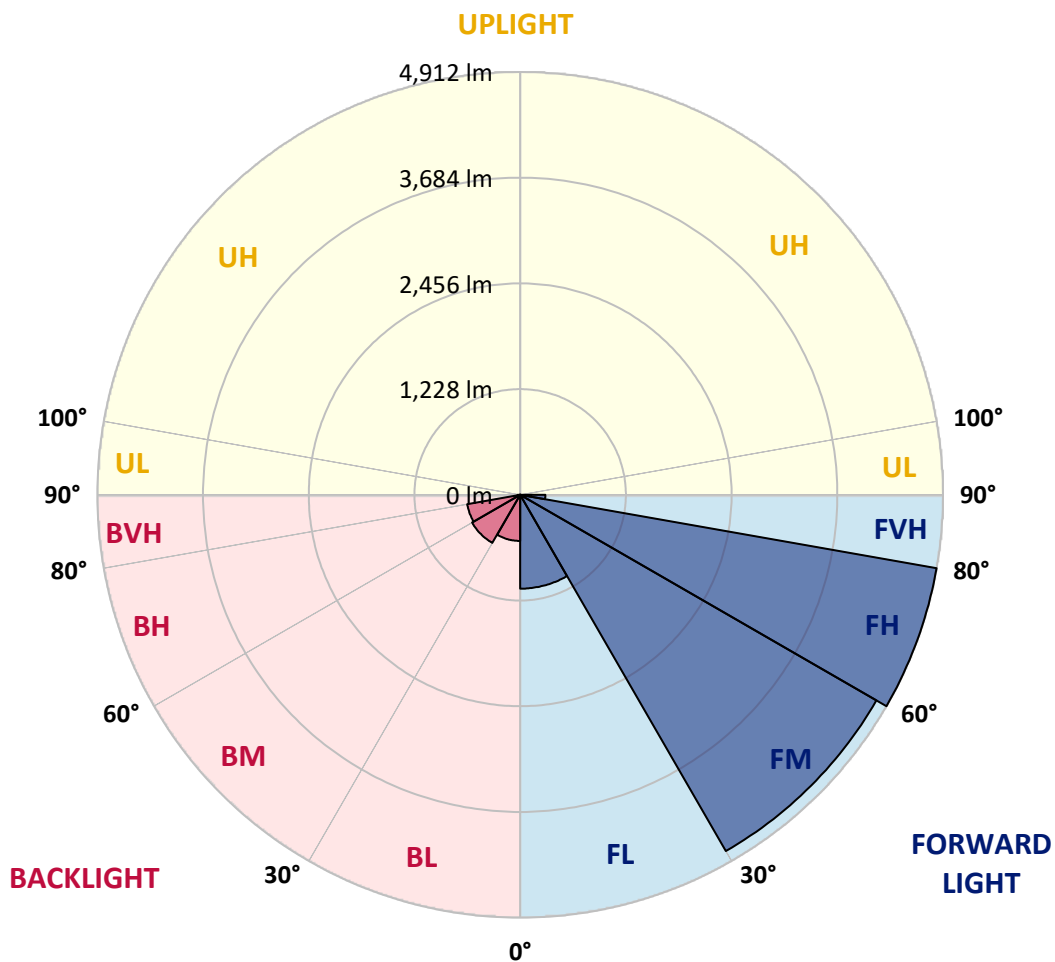
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1090.1	8.4			
FM (30°-60°)	4778.5	37.0			
FH (60°-80°)	4912.0	38.0			G2/5000
FVH (80°-90°)	292.7	2.3			G3/500
BL (0°-30°)	535.8	4.2	B2/1000		
BM (30°-60°)	645.3	5.0	B1/1000		
BH (60°-80°)	624.4	4.8	B2/1000		G2/1000
BVH (80°-90°)	31.2	0.2			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3289.7	3289.7	3289.7	3289.7	3289.7	3289.7	3289.7	3289.7	3289.7	3289.7	3289.7
2.5°	3357.0	3364.5	3361.4	3359.5	3365.1	3356.4	3338.3	3332.7	3324.0	3303.4	3268.5
5°	3231.0	3253.5	3252.2	3269.1	3297.1	3304.6	3296.5	3297.8	3281.6	3256.0	3198.0
7.5°	3013.4	3022.7	3027.7	3064.5	3115.7	3156.8	3191.8	3203.0	3195.5	3173.7	3098.8
10°	2788.9	2796.4	2808.2	2851.3	2916.1	2972.9	3039.0	3077.0	3093.2	3089.5	3005.9
12.5°	2596.2	2603.7	2619.3	2667.9	2745.2	2815.1	2911.1	2958.5	2997.2	3020.3	2930.5
15°	2423.4	2439.7	2454.6	2510.7	2597.4	2689.1	2797.6	2857.5	2917.4	2969.1	2863.7
17.5°	2288.7	2304.9	2313.7	2364.8	2457.1	2569.4	2696.6	2767.1	2841.9	2926.7	2797.6
20°	2210.8	2218.3	2214.5	2243.2	2326.2	2445.3	2596.2	2677.9	2768.3	2886.8	2731.5
22.5°	2189.0	2189.6	2175.9	2172.7	2226.4	2326.8	2488.9	2588.1	2699.1	2860.6	2674.8
25°	2242.0	2240.1	2202.7	2172.1	2177.7	2236.3	2385.4	2500.8	2641.1	2855.0	2631.1
27.5°	2359.8	2365.4	2309.9	2252.6	2195.8	2193.9	2306.8	2428.4	2593.7	2880.6	2612.4
30°	2525.1	2534.4	2475.2	2402.2	2295.6	2207.7	2276.3	2385.4	2564.4	2933.6	2609.3
32.5°	2705.9	2715.9	2671.0	2594.3	2454.6	2292.5	2297.5	2389.1	2563.1	3007.8	2630.5
35°	2898.6	2909.9	2886.8	2821.9	2666.7	2449.0	2378.5	2449.6	2603.7	3121.3	2687.2
37.5°	3113.8	3131.3	3137.5	3075.8	2909.9	2655.4	2511.4	2564.4	2695.3	3279.1	2791.4
40°	3423.7	3448.1	3446.2	3357.6	3188.6	2934.2	2716.5	2730.3	2838.2	3489.9	2957.9
42.5°	4017.4	4022.4	3867.1	3674.4	3495.5	3227.3	2958.5	2947.3	3035.2	3756.8	3203.0
45°	4772.7	4752.1	4406.6	4034.3	3816.0	3564.1	3273.4	3218.6	3285.3	4082.3	3509.8
47.5°	5399.4	5352.0	4915.5	4401.6	4155.3	3930.1	3643.3	3547.2	3584.0	4451.5	3906.4
50°	5617.1	5581.5	5219.8	4707.2	4476.4	4376.7	4098.5	3962.6	3972.5	4891.8	4371.0
52.5°	5570.3	5565.3	5324.0	4908.6	4777.0	4845.6	4743.4	4559.4	4462.1	5380.7	4872.4
55°	5459.9	5470.5	5383.2	5143.1	5120.7	5298.4	5585.9	5449.9	5147.5	5874.0	5390.7
57.5°	5076.4	5103.8	5295.9	5438.1	5673.8	5938.2	6264.4	6225.7	5885.2	6407.2	6006.8
60°	4089.8	4153.4	4668.5	5380.7	6243.2	7070.1	7216.1	7126.3	6646.1	7068.9	6820.7
62.5°	2865.6	2931.7	3544.1	4658.5	6149.6	8348.6	8917.3	8530.1	7738.7	8043.6	7874.0
65°	1534.1	1565.9	2033.7	3232.3	5191.7	8612.4	11403.8	10814.4	9468.6	9245.4	8775.1
67.5°	846.3	863.7	1042.7	1632.0	3325.2	7584.0	12987.8	13433.1	11630.8	10045.5	8611.1
69°	765.2	781.4	898.7	1236.0	2225.1	6270.6	12833.1	14123.4	12578.7	9966.3	8005.0
70°	748.4	763.3	868.7	1139.4	1801.1	5168.7	12314.9	13946.9	12804.4	9682.5	7476.1
72.5°	673.5	689.7	792.0	1023.4	1539.1	2576.9	9754.9	11792.3	11625.1	8395.3	5670.7
75°	628.0	643.0	816.3	1002.2	1473.6	1630.8	6430.9	8690.9	8545.6	5872.8	3057.7
77.5°	268.8	267.5	378.5	848.1	1495.5	1579.0	3455.6	5429.3	4953.5	2510.1	878.1
80°	179.6	176.5	179.6	249.5	1371.4	1587.8	1810.4	2755.8	2081.7	639.8	432.8
82.5°	154.7	152.2	157.8	152.2	482.1	1812.3	1539.1	1465.5	989.7	363.6	214.5
85°	104.1	99.8	136.0	136.6	227.6	1610.2	1733.7	1237.9	800.7	215.8	106.0
87.5°	49.9	48.6	79.2	96.7	133.5	654.2	1945.1	1268.5	807.6	110.4	50.5
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°	3289.7	3289.7	3289.7	3289.7	3289.7	3289.7	3289.7	3289.7	3289.7	3289.7	3289.7
2.5°	3257.9	3232.3	3207.3	3177.4	3146.2	3111.3	3093.8	3076.4	3072.0	3067.0	3049.6
5°	3168.1	3131.9	3069.5	3000.9	2928.6	2858.1	2804.5	2770.8	2745.2	2732.1	2709.1
7.5°	3052.1	2999.1	2889.9	2771.4	2649.8	2538.8	2442.8	2382.3	2324.9	2298.1	2267.5
10°	2941.7	2862.5	2692.8	2518.2	2343.6	2175.9	2018.1	1906.4	1807.3	1751.8	1712.5
12.5°	2846.9	2738.4	2503.3	2266.9	2027.4	1788.6	1552.2	1366.4	1211.1	1129.4	1087.6
15°	2754.6	2623.6	2323.0	2023.1	1715.6	1390.7	1080.1	869.3	740.9	689.7	672.3
17.5°	2671.0	2503.3	2142.2	1777.4	1393.8	1000.9	725.9	609.9	560.6	543.8	538.2
20°	2580.6	2381.7	1954.5	1520.4	1058.3	699.7	566.9	515.7	495.8	490.8	488.3
22.5°	2493.3	2261.9	1774.9	1245.4	760.2	540.1	487.1	465.9	462.7	467.1	467.1
25°	2419.1	2154.7	1580.9	957.9	558.2	454.6	435.9	430.9	442.8	459.0	462.1
27.5°	2363.6	2066.7	1374.5	707.2	444.7	395.4	394.8	402.9	432.2	463.4	469.6
30°	2325.5	1983.2	1153.7	510.1	372.9	348.0	358.0	375.4	418.5	462.7	474.6
32.5°	2306.2	1921.4	923.6	394.8	319.3	305.6	322.4	343.6	386.0	427.2	442.8
35°	2321.2	1875.9	706.6	329.3	281.9	271.3	288.7	309.3	334.3	351.7	363.6
37.5°	2377.3	1857.8	533.2	295.0	256.3	246.3	260.1	271.9	281.9	286.9	292.5
40°	2498.3	1877.1	427.2	277.5	242.0	229.5	235.1	239.5	245.7	250.7	253.2
42.5°	2676.6	1935.1	382.9	270.7	234.5	216.4	215.2	217.0	225.1	234.5	236.4
45°	2926.1	2037.4	379.8	275.0	230.7	205.8	200.2	202.7	215.2	229.5	232.0
47.5°	3244.8	2193.3	404.7	288.1	233.9	200.2	190.8	193.9	209.5	228.9	232.0
50°	3630.8	2411.0	446.5	307.5	247.6	201.4	187.7	189.6	205.8	227.0	230.1
52.5°	4086.7	2719.7	492.0	326.2	261.9	209.5	190.2	185.8	200.8	219.5	223.3
55°	4593.7	3115.7	538.8	343.0	269.4	219.5	195.2	180.9	191.5	207.0	210.2
57.5°	5216.1	3669.5	619.9	359.2	274.4	226.4	200.2	175.9	179.6	190.8	193.3
60°	6058.6	4452.7	762.7	386.0	285.6	228.9	199.6	171.5	167.8	174.0	175.2
62.5°	7068.3	5303.4	881.8	419.7	304.3	230.7	195.8	168.4	157.8	157.8	159.0
65°	7667.6	5531.0	815.7	447.8	319.9	228.9	191.5	165.3	150.3	143.4	144.1
67.5°	7159.3	4864.3	699.1	453.4	319.3	220.1	184.6	159.7	142.8	132.2	131.6
69°	6522.6	4197.1	646.7	438.4	304.3	208.9	175.9	153.4	137.2	126.0	125.4
70°	6009.3	3789.8	612.4	422.2	288.1	200.8	169.0	147.8	132.8	122.2	121.0
72.5°	4369.2	2483.3	523.2	363.0	237.6	168.4	145.9	129.7	118.5	112.3	111.0
75°	2183.3	1184.3	424.7	294.4	182.1	134.7	119.7	108.5	102.9	101.7	101.0
77.5°	717.2	542.6	303.7	219.5	135.3	105.4	96.7	88.6	87.3	91.1	89.8
80°	394.1	315.6	192.7	145.3	92.3	77.3	76.1	71.7	73.6	79.8	78.6
82.5°	200.8	164.0	119.1	87.3	62.4	55.5	60.5	58.0	60.5	66.1	65.5
85°	99.2	89.8	75.5	53.0	41.2	35.5	43.0	44.9	46.1	50.5	50.5
87.5°	57.4	53.0	39.9	24.9	20.6	18.7	24.9	24.3	28.7	31.2	30.6
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)