

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: P299954

Luminaire Tested: **GLNA-AF-04-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299954
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: GLNA-AF-04-LED-E1-SL3-7030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15248.5 lumens
Efficiency: N/A
Efficacy: 118.2 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

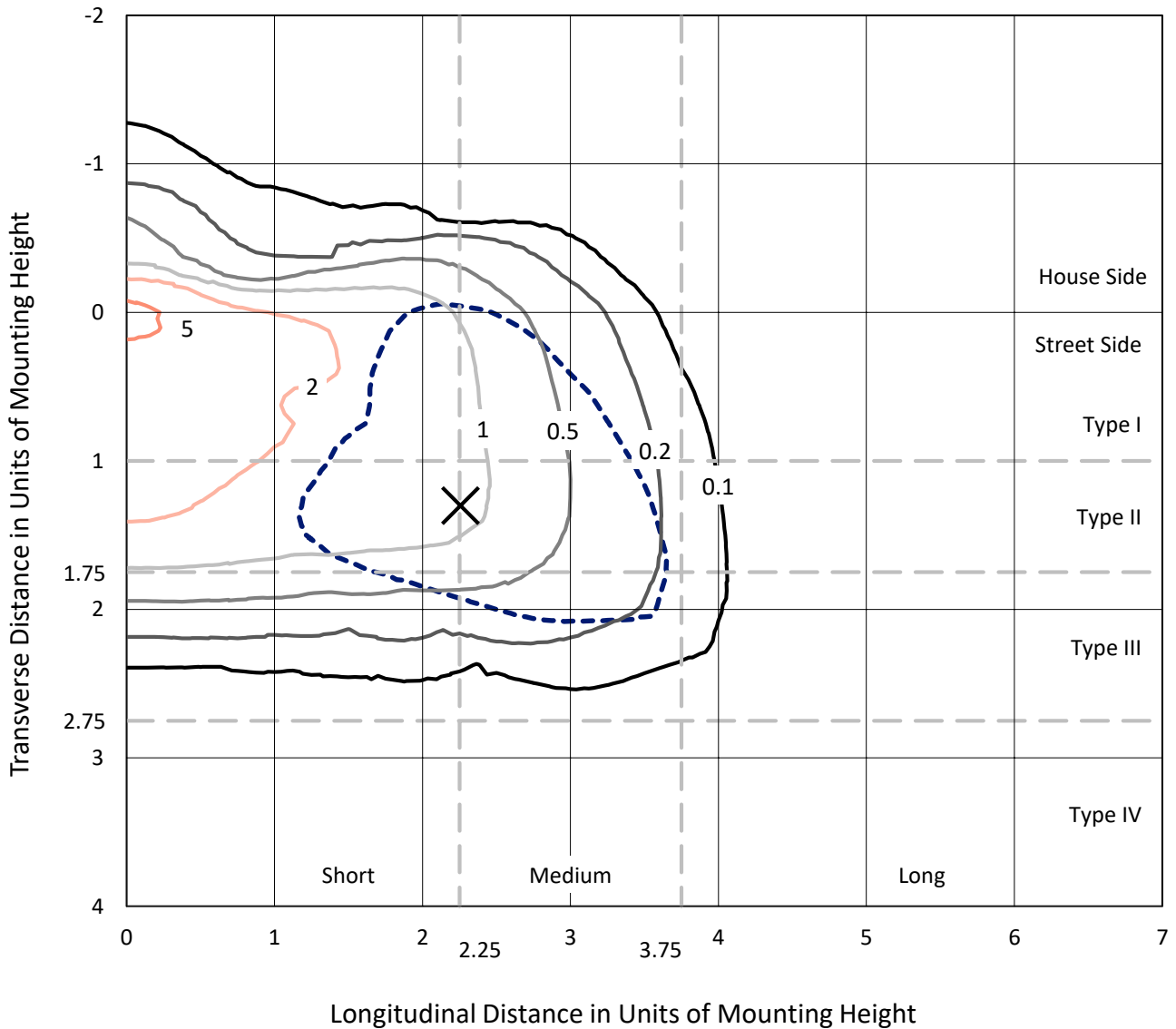
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

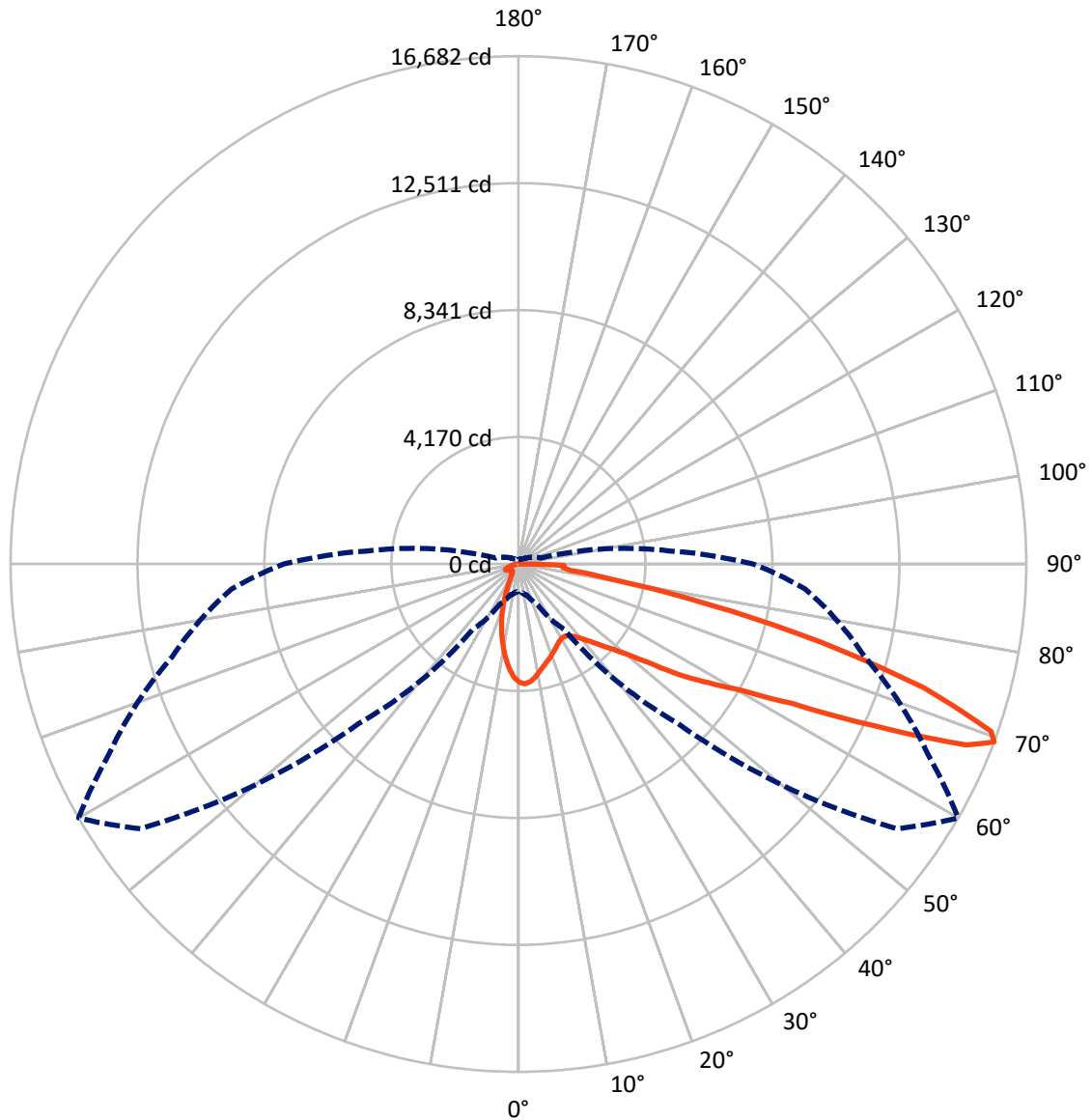
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2169.4	0.0	2169.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	13079.2	0.0	13079.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	15248.5	0.0	15248.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.5	2.2
10°-20°	700.0	4.6
20°-30°	891.9	5.8
30°-40°	1226.1	8.0
40°-50°	1989.5	13.0
50°-60°	3190.6	20.9
60°-70°	4246.5	27.8
70°-80°	2292.8	15.0
80°-90°	382.6	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°	15248.5	100.0
0°-180°	15248.5	100.0

Coefficient of Utilization



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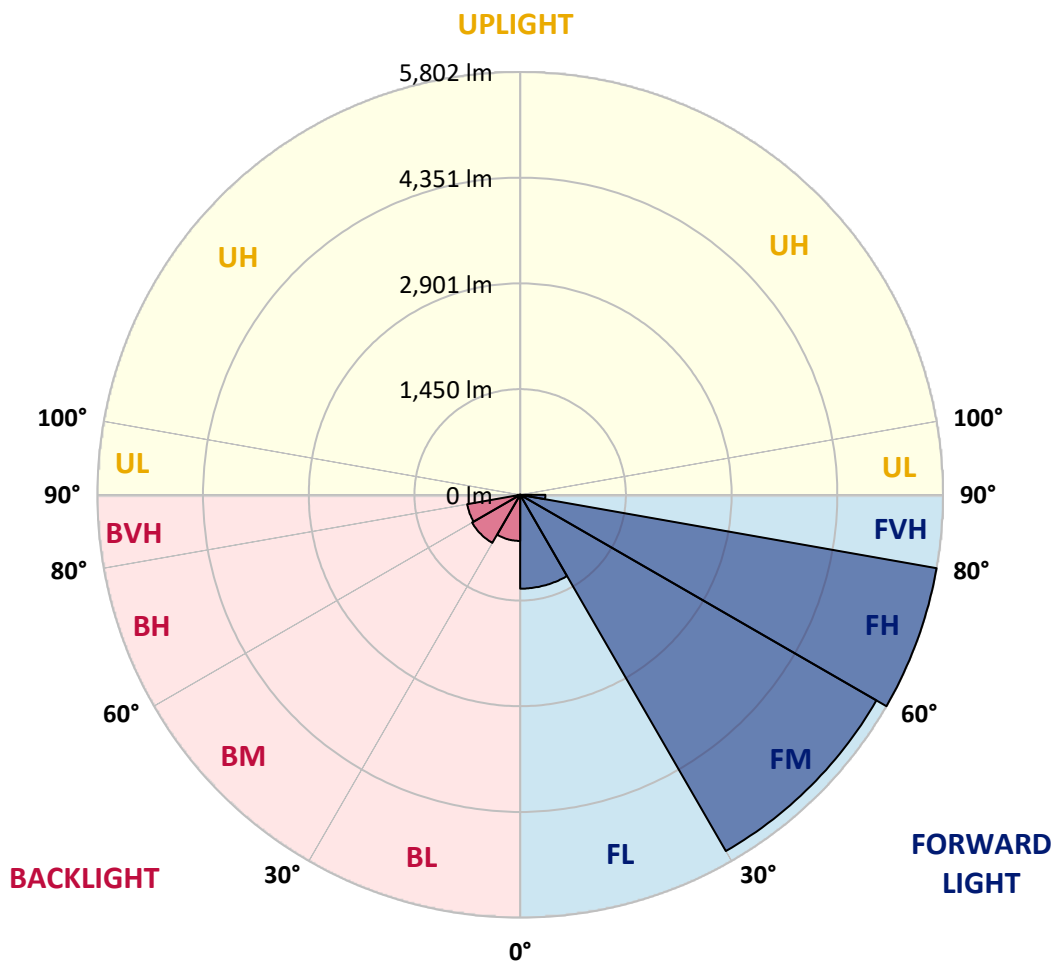
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.5	8.4			
FM (30°-60°)	5644.1	37.0			
FH (60°-80°)	5801.8	38.0			G3/7500
FVH (80°-90°)	345.7	2.3			G3/500
BL (0°-30°)	632.9	4.2	B2/1000		
BM (30°-60°)	762.1	5.0	B1/1000		
BH (60°-80°)	737.5	4.8	B2/1000		G2/1000
BVH (80°-90°)	36.8	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°	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6
2.5°	3965.1	3974.0	3970.3	3968.1	3974.7	3964.4	3943.0	3936.4	3926.1	3901.8	3860.5
5°	3816.3	3842.8	3841.4	3861.3	3894.4	3903.2	3893.7	3895.1	3876.0	3845.8	3777.3
7.5°	3559.2	3570.3	3576.2	3619.6	3680.0	3728.7	3769.9	3783.2	3774.3	3748.6	3660.2
10°	3294.1	3302.9	3316.9	3367.7	3444.3	3511.4	3589.4	3634.4	3653.5	3649.1	3550.4
12.5°	3066.5	3075.3	3093.7	3151.2	3242.5	3325.0	3438.4	3494.4	3540.1	3567.3	3461.3
15°	2862.4	2881.6	2899.3	2965.5	3067.9	3176.2	3304.4	3375.1	3445.8	3506.9	3382.5
17.5°	2703.3	2722.5	2732.8	2793.2	2902.2	3034.8	3185.1	3268.3	3356.7	3456.9	3304.4
20°	2611.2	2620.1	2615.7	2649.5	2747.5	2888.2	3066.5	3163.0	3269.8	3409.7	3226.3
22.5°	2585.5	2586.2	2570.0	2566.3	2629.7	2748.3	2939.8	3056.9	3188.0	3378.8	3159.3
25°	2648.1	2645.9	2601.7	2565.6	2572.2	2641.4	2817.5	2953.8	3119.5	3372.1	3107.7
27.5°	2787.3	2793.9	2728.4	2660.6	2593.6	2591.4	2724.7	2868.3	3063.5	3402.4	3085.6
30°	2982.5	2993.5	2923.6	2837.4	2711.4	2607.6	2688.6	2817.5	3028.9	3465.0	3081.9
32.5°	3196.1	3207.9	3154.9	3064.3	2899.3	2707.7	2713.6	2821.9	3027.4	3552.6	3107.0
35°	3423.7	3437.0	3409.7	3333.1	3149.7	2892.6	2809.4	2893.4	3075.3	3686.7	3174.0
37.5°	3677.8	3698.5	3705.8	3632.9	3437.0	3136.4	2966.3	3028.9	3183.6	3873.0	3297.0
40°	4043.9	4072.7	4070.4	3965.8	3766.2	3465.7	3208.6	3224.8	3352.3	4122.0	3493.7
42.5°	4745.2	4751.1	4567.6	4340.0	4128.6	3811.9	3494.4	3481.2	3585.0	4437.3	3783.2
45°	5637.2	5612.9	5204.8	4765.1	4507.2	4209.7	3866.4	3801.6	3880.4	4821.8	4145.6
47.5°	6377.5	6321.5	5805.9	5198.9	4908.0	4642.0	4303.2	4189.8	4233.2	5257.8	4614.1
50°	6634.5	6592.6	6165.3	5559.8	5287.3	5169.5	4840.9	4680.3	4692.1	5777.9	5162.8
52.5°	6579.3	6573.4	6288.3	5797.8	5642.3	5723.4	5602.6	5385.3	5270.4	6355.4	5755.0
55°	6448.9	6461.4	6358.3	6074.7	6048.2	6258.1	6597.7	6437.1	6079.9	6938.0	6367.2
57.5°	5995.9	6028.3	6255.2	6423.1	6701.6	7013.9	7399.1	7353.5	6951.3	7567.8	7094.9
60°	4830.6	4905.7	5514.2	6355.4	7374.1	8350.8	8523.2	8417.1	7849.9	8349.3	8056.2
62.5°	3384.7	3462.8	4186.1	5502.4	7263.6	9860.8	10532.6	10075.2	9140.5	9500.7	9300.3
65°	1812.0	1849.6	2402.0	3817.8	6132.2	10172.4	13469.4	12773.4	11183.8	10920.1	10364.7
67.5°	999.6	1020.2	1231.6	1927.7	3927.5	8957.8	15340.4	15866.3	13737.6	11865.1	10171.0
69°	903.8	923.0	1061.4	1459.9	2628.2	7406.5	15157.7	16681.8	14857.2	11771.6	9455.0
70°	883.9	901.6	1026.1	1345.8	2127.3	6104.9	14545.6	16473.3	15123.8	11436.4	8830.3
72.5°	795.5	814.7	935.5	1208.8	1817.9	3043.6	11521.9	13928.3	13730.9	9916.1	6697.9
75°	741.8	759.4	964.2	1183.7	1740.6	1926.2	7595.8	10265.2	10093.6	6936.6	3611.5
77.5°	317.5	316.0	447.1	1001.8	1766.4	1865.1	4081.5	6412.8	5850.8	2964.8	1037.1
80°	212.1	208.5	212.1	294.6	1619.8	1875.4	2138.3	3255.0	2458.8	755.8	511.2
82.5°	182.7	179.7	186.4	179.7	569.4	2140.6	1817.9	1731.0	1169.0	429.4	253.4
85°	123.0	117.9	160.6	161.3	268.9	1901.9	2047.7	1462.1	945.8	254.9	125.2
87.5°	58.9	57.5	93.5	114.2	157.6	772.7	2297.5	1498.2	953.9	130.4	59.7
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°	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6
2.5°	3848.0	3817.8	3788.3	3753.0	3716.1	3674.9	3654.3	3633.6	3628.5	3622.6	3602.0
5°	3741.9	3699.2	3625.5	3544.5	3459.1	3375.8	3312.5	3272.7	3242.5	3227.0	3199.8
7.5°	3604.9	3542.3	3413.4	3273.4	3129.8	2998.7	2885.3	2813.8	2746.0	2714.4	2678.3
10°	3474.5	3381.0	3180.6	2974.4	2768.1	2570.0	2383.6	2251.8	2134.7	2069.1	2022.7
12.5°	3362.6	3234.4	2956.7	2677.5	2394.7	2112.6	1833.4	1613.9	1430.5	1334.0	1284.6
15°	3253.6	3098.9	2743.8	2389.5	2026.4	1642.6	1275.8	1026.8	875.1	814.7	794.1
17.5°	3154.9	2956.7	2530.2	2099.3	1646.3	1182.2	857.4	720.4	662.2	642.3	635.7
20°	3048.0	2813.1	2308.5	1795.8	1250.0	826.5	669.6	609.2	585.6	579.7	576.8
22.5°	2944.9	2671.6	2096.4	1471.0	897.9	637.9	575.3	550.2	546.6	551.7	551.7
25°	2857.3	2544.9	1867.3	1131.4	659.3	537.0	514.9	509.0	523.0	542.1	545.8
27.5°	2791.7	2441.1	1623.5	835.3	525.2	467.0	466.3	475.8	510.5	547.3	554.7
30°	2746.8	2342.4	1362.7	602.5	440.5	411.0	422.8	443.4	494.3	546.6	560.6
32.5°	2723.9	2269.5	1090.9	466.3	377.1	360.9	380.8	405.9	456.0	504.6	523.0
35°	2741.6	2215.7	834.6	388.9	332.9	320.4	341.0	365.4	394.8	415.4	429.4
37.5°	2807.9	2194.3	629.8	348.4	302.7	291.0	307.2	321.2	332.9	338.8	345.5
40°	2950.8	2217.2	504.6	327.8	285.8	271.1	277.7	282.9	290.2	296.1	299.1
42.5°	3161.5	2285.7	452.3	319.7	277.0	255.6	254.1	256.3	265.9	277.0	279.2
45°	3456.1	2406.5	448.6	324.8	272.5	243.1	236.4	239.4	254.1	271.1	274.0
47.5°	3832.5	2590.6	478.1	340.3	276.2	236.4	225.4	229.1	247.5	270.3	274.0
50°	4288.5	2847.7	527.4	363.1	292.4	237.9	221.7	223.9	243.1	268.1	271.8
52.5°	4826.9	3212.3	581.2	385.2	309.4	247.5	224.7	219.5	237.2	259.3	263.7
55°	5425.8	3680.0	636.4	405.1	318.2	259.3	230.6	213.6	226.1	244.6	248.2
57.5°	6160.9	4334.1	732.2	424.3	324.1	267.4	236.4	207.7	212.1	225.4	228.3
60°	7156.1	5259.3	900.9	456.0	337.4	270.3	235.7	202.6	198.1	205.5	207.0
62.5°	8348.6	6264.0	1041.6	495.7	359.5	272.5	231.3	198.9	186.4	186.4	187.8
65°	9056.5	6532.9	963.5	528.9	377.9	270.3	226.1	195.2	177.5	169.4	170.2
67.5°	8456.2	5745.5	825.7	535.5	377.1	260.0	218.0	188.6	168.7	156.2	155.4
69°	7704.1	4957.3	763.9	517.8	359.5	246.8	207.7	181.2	162.1	148.8	148.1
70°	7097.9	4476.3	723.3	498.7	340.3	237.2	199.6	174.6	156.9	144.4	142.9
72.5°	5160.6	2933.1	618.0	428.7	280.6	198.9	172.4	153.2	140.0	132.6	131.1
75°	2578.8	1398.8	501.6	347.7	215.1	159.1	141.4	128.2	121.5	120.1	119.3
77.5°	847.1	640.8	358.7	259.3	159.8	124.5	114.2	104.6	103.1	107.5	106.1
80°	465.5	372.7	227.6	171.6	109.0	91.3	89.9	84.7	86.9	94.3	92.8
82.5°	237.2	193.7	140.7	103.1	73.7	65.6	71.5	68.5	71.5	78.1	77.3
85°	117.1	106.1	89.1	62.6	48.6	42.0	50.8	53.0	54.5	59.7	59.7
87.5°	67.8	62.6	47.1	29.5	24.3	22.1	29.5	28.7	33.9	36.8	36.1
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)