

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: P299888

Luminaire Tested: **GLNA-AF-03-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299888  
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-03-LED-E1-SL3-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Medium OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14152.7 lumens  
Efficiency: N/A  
Efficacy: 114.1 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

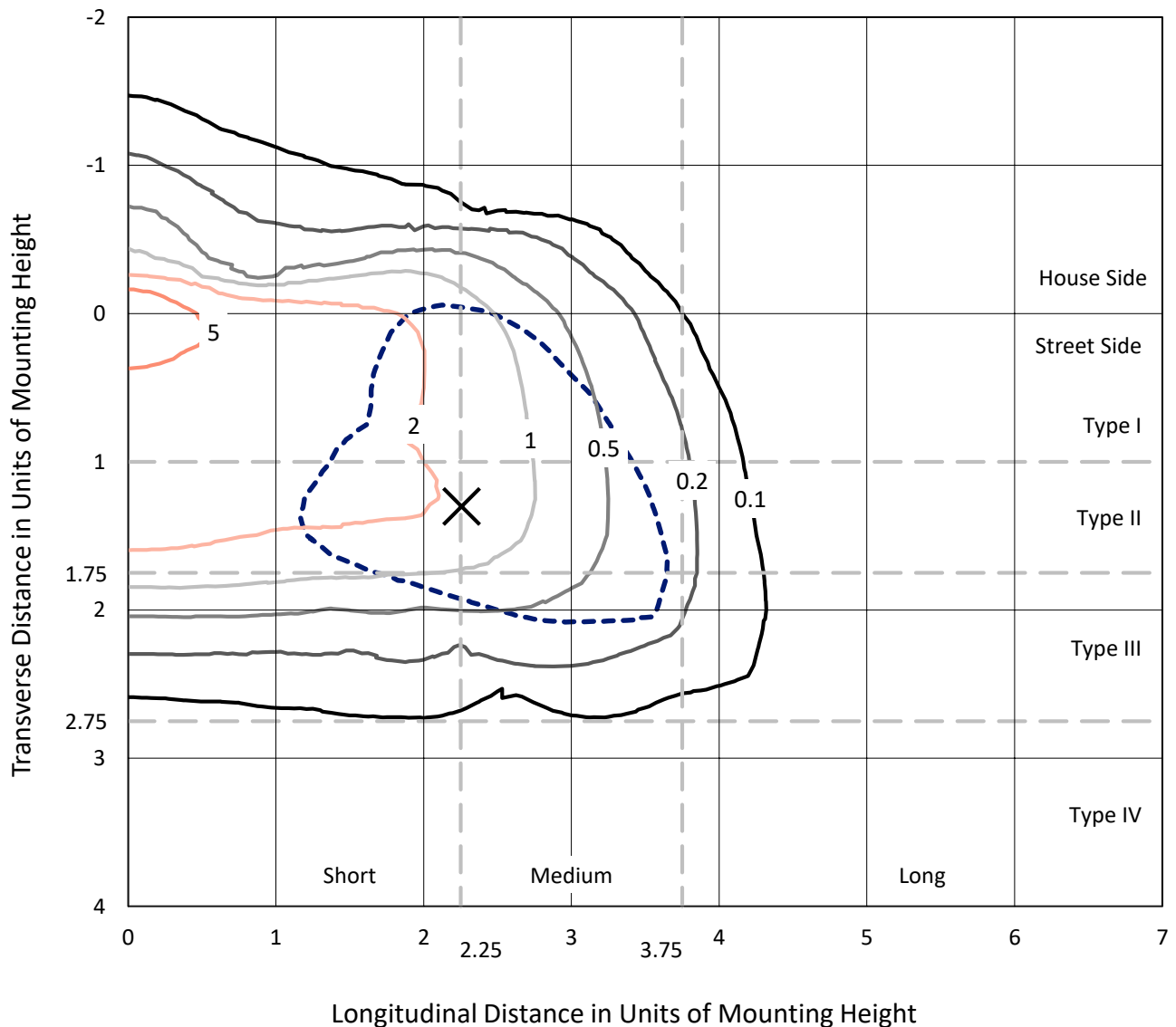
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P299888  
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### Iso-Footcandle Lines of Horizontal Illumination

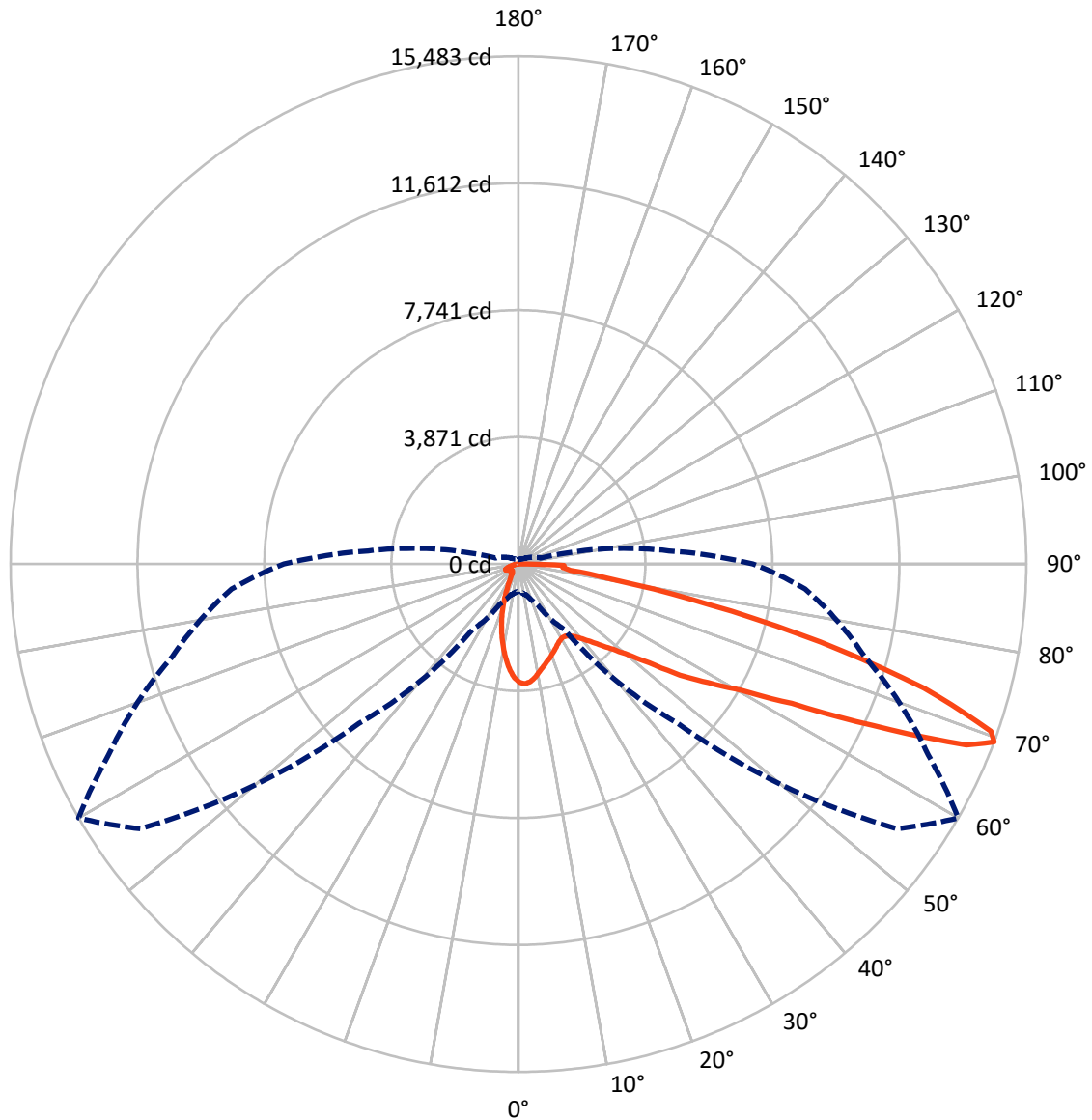
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P299888  
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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
<b>House Side</b>	Lumens	2013.5	0.0	2013.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	12139.2	0.0	12139.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	14152.7	0.0	14152.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.9	2.2
10°-20°	649.7	4.6
20°-30°	827.8	5.8
30°-40°	1138.0	8.0
40°-50°	1846.5	13.0
50°-60°	2961.4	20.9
60°-70°	3941.3	27.8
70°-80°	2128.0	15.0
80°-90°	355.1	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°	14152.7	100.0
0°-180°	14152.7	100.0

**Coefficient of Utilization**



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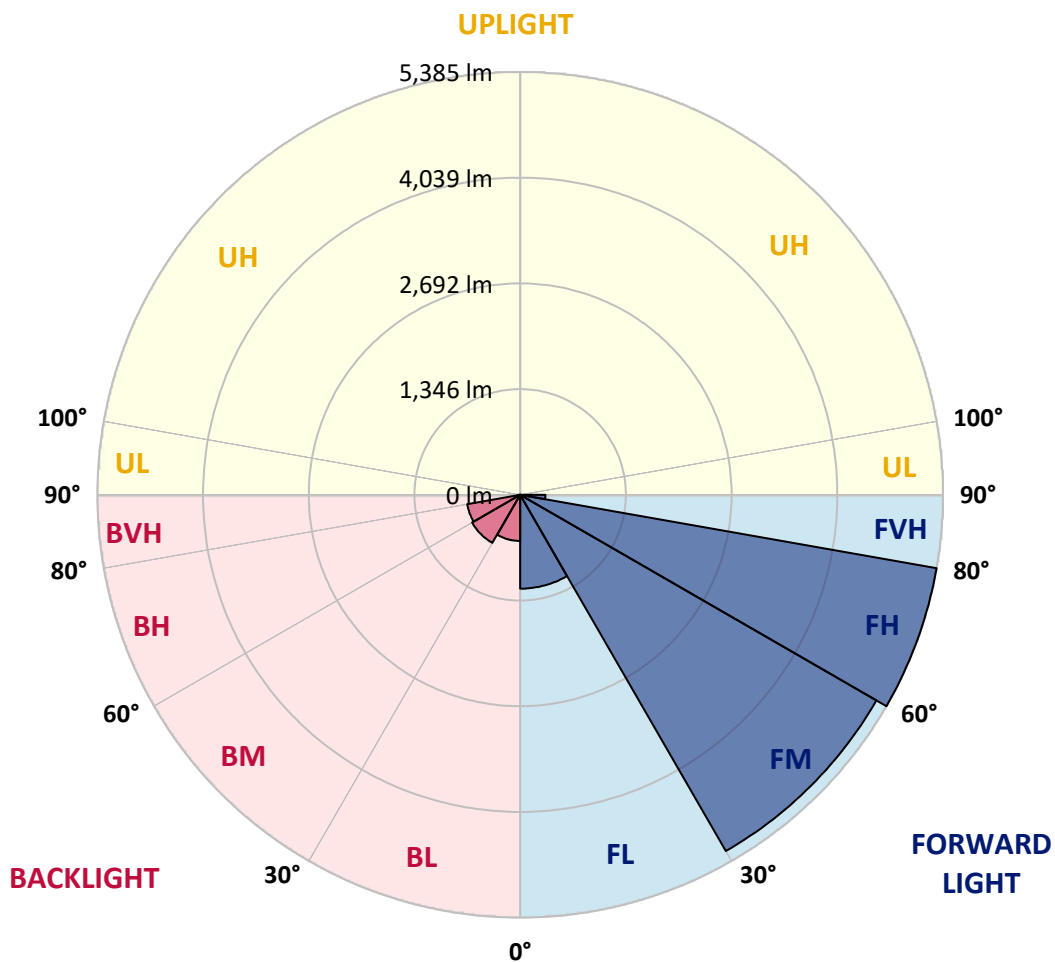
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1195.0	8.4			
FM (30°-60°)	5238.5	37.0			
FH (60°-80°)	5384.8	38.0			G3/7500
FVH (80°-90°)	320.9	2.3			G3/500
BL (0°-30°)	587.4	4.2	B2/1000		
BM (30°-60°)	707.4	5.0	B1/1000		
BH (60°-80°)	684.5	4.8	B2/1000		G2/1000
BVH (80°-90°)	34.2	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





REPORT NUMBER: P299888

CATALOG NUMBER: GLNA-AF-03-LED-E1-SL3-7030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3606.3	3606.3	3606.3	3606.3	3606.3	3606.3	3606.3	3606.3	3606.3	3606.3	3606.3
2.5°	3680.2	3688.4	3684.9	3682.9	3689.0	3679.5	3659.7	3653.5	3643.9	3621.4	3583.1
5°	3542.1	3566.7	3565.3	3583.8	3614.5	3622.7	3613.8	3615.2	3597.4	3569.4	3505.8
7.5°	3303.5	3313.7	3319.2	3359.5	3415.6	3460.7	3499.0	3511.3	3503.1	3479.2	3397.1
10°	3057.3	3065.5	3078.5	3125.7	3196.8	3259.0	3331.5	3373.2	3391.0	3386.9	3295.3
12.5°	2846.1	2854.3	2871.4	2924.7	3009.5	3086.1	3191.3	3243.3	3285.7	3311.0	3212.5
15°	2656.7	2674.5	2690.9	2752.4	2847.5	2948.0	3066.9	3132.5	3198.2	3254.9	3139.4
17.5°	2509.0	2526.8	2536.4	2592.5	2693.6	2816.7	2956.2	3033.4	3115.5	3208.4	3066.9
20°	2423.6	2431.8	2427.7	2459.1	2550.1	2680.6	2846.1	2935.7	3034.8	3164.7	2994.4
22.5°	2399.7	2400.3	2385.3	2381.9	2440.7	2550.7	2728.5	2837.2	2958.9	3136.0	2932.2
25°	2457.8	2455.7	2414.7	2381.2	2387.4	2451.6	2615.0	2741.5	2895.3	3129.8	2884.4
27.5°	2587.0	2593.1	2532.3	2469.4	2407.2	2405.1	2528.9	2662.2	2843.4	3157.8	2863.9
30°	2768.2	2778.4	2713.5	2633.5	2516.6	2420.2	2495.4	2615.0	2811.2	3216.0	2860.4
32.5°	2966.4	2977.4	2928.1	2844.0	2690.9	2513.1	2518.6	2619.1	2809.9	3297.3	2883.7
35°	3177.7	3190.0	3164.7	3093.6	2923.3	2684.7	2607.5	2685.4	2854.3	3421.7	2945.9
37.5°	3413.5	3432.7	3439.5	3371.8	3190.0	2911.0	2753.1	2811.2	2954.8	3594.7	3060.1
40°	3753.3	3780.0	3777.9	3680.8	3495.6	3216.6	2978.0	2993.1	3111.4	3825.8	3242.6
42.5°	4404.2	4409.6	4239.4	4028.1	3831.9	3538.0	3243.3	3231.0	3327.4	4118.4	3511.3
45°	5232.1	5209.5	4830.8	4422.6	4183.3	3907.1	3588.6	3528.4	3601.5	4475.3	3847.7
47.5°	5919.2	5867.2	5388.6	4825.3	4555.3	4308.4	3994.0	3888.7	3929.0	4880.0	4282.5
50°	6157.8	6118.8	5722.3	5160.3	4907.3	4798.0	4493.0	4344.0	4354.9	5362.7	4791.8
52.5°	6106.5	6101.0	5836.4	5381.1	5236.9	5312.1	5199.9	4998.3	4891.6	5898.6	5341.5
55°	5985.5	5997.1	5901.4	5638.2	5613.6	5808.4	6123.6	5974.5	5643.0	6439.4	5909.6
57.5°	5565.0	5595.1	5805.7	5961.5	6220.0	6509.8	6867.4	6825.0	6451.7	7024.0	6585.0
60°	4483.5	4553.2	5117.9	5898.6	6844.2	7750.7	7910.7	7812.2	7285.8	7749.3	7477.2
62.5°	3141.4	3213.9	3885.3	5107.0	6741.6	9152.2	9775.7	9351.2	8483.6	8817.9	8631.9
65°	1681.8	1716.7	2229.4	3543.4	5691.5	9441.4	12501.5	11855.4	10380.1	10135.3	9619.8
67.5°	927.7	946.9	1143.1	1789.1	3645.3	8314.0	14238.0	14726.1	12750.3	11012.5	9440.0
69°	838.9	856.6	985.2	1355.0	2439.3	6874.2	14068.4	15482.9	13789.5	10925.6	8775.5
70°	820.4	836.8	952.3	1249.1	1974.4	5666.2	13500.3	15289.5	14037.0	10614.6	8195.8
72.5°	738.4	756.1	868.3	1121.9	1687.3	2824.9	10693.9	12927.4	12744.2	9203.5	6216.6
75°	688.4	704.9	894.9	1098.6	1615.5	1787.8	7049.9	9527.5	9368.2	6438.1	3352.0
77.5°	294.7	293.3	415.0	929.8	1639.4	1731.0	3788.2	5952.0	5430.3	2751.7	962.6
80°	196.9	193.5	196.9	273.5	1503.4	1740.6	1984.7	3021.1	2282.1	701.4	474.5
82.5°	169.5	166.8	173.0	166.8	528.5	1986.7	1687.3	1606.6	1085.0	398.6	235.2
85°	114.2	109.4	149.0	149.7	249.5	1765.2	1900.6	1357.1	877.8	236.5	116.2
87.5°	54.7	53.3	86.8	106.0	146.3	717.2	2132.3	1390.6	885.3	121.0	55.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299888

CATALOG NUMBER: GLNA-AF-03-LED-E1-SL3-7030-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3606.3	3606.3	3606.3	3606.3	3606.3	3606.3	3606.3	3606.3	3606.3	3606.3	3606.3
2.5°	3571.5	3543.4	3516.1	3483.3	3449.1	3410.8	3391.7	3372.5	3367.7	3362.3	3343.1
5°	3473.0	3433.4	3365.0	3289.8	3210.5	3133.2	3074.4	3037.5	3009.5	2995.1	2969.8
7.5°	3345.8	3287.7	3168.1	3038.2	2904.9	2783.2	2677.9	2611.6	2548.7	2519.3	2485.8
10°	3224.8	3138.0	2952.1	2760.6	2569.2	2385.3	2212.3	2090.0	1981.3	1920.4	1877.3
12.5°	3120.9	3002.0	2744.2	2485.1	2222.6	1960.7	1701.6	1497.9	1327.7	1238.1	1192.3
15°	3019.7	2876.2	2546.6	2217.8	1880.8	1524.6	1184.1	953.0	812.2	756.1	737.0
17.5°	2928.1	2744.2	2348.4	1948.4	1528.0	1097.3	795.8	668.6	614.6	596.2	590.0
20°	2829.0	2610.9	2142.6	1666.8	1160.2	767.1	621.5	565.4	543.5	538.0	535.3
22.5°	2733.3	2479.6	1945.7	1365.3	833.4	592.1	533.9	510.7	507.3	512.1	512.1
25°	2651.9	2362.1	1733.1	1050.1	611.9	498.4	477.9	472.4	485.4	503.2	506.6
27.5°	2591.1	2265.7	1506.8	775.3	487.5	433.4	432.8	441.6	473.8	508.0	514.8
30°	2549.4	2174.1	1264.8	559.2	408.8	381.5	392.4	411.6	458.7	507.3	520.3
32.5°	2528.2	2106.4	1012.5	432.8	350.0	335.0	353.5	376.7	423.2	468.3	485.4
35°	2544.6	2056.5	774.6	361.0	309.0	297.4	316.5	339.1	366.4	385.6	398.6
37.5°	2606.1	2036.6	584.5	323.4	281.0	270.0	285.1	298.1	309.0	314.5	320.6
40°	2738.8	2057.8	468.3	304.2	265.3	251.6	257.7	262.5	269.4	274.8	277.6
42.5°	2934.3	2121.4	419.8	296.7	257.1	237.2	235.9	237.9	246.8	257.1	259.1
45°	3207.7	2233.5	416.4	301.5	253.0	225.6	219.5	222.2	235.9	251.6	254.3
47.5°	3557.1	2404.4	443.7	315.9	256.4	219.5	209.2	212.6	229.7	250.9	254.3
50°	3980.3	2643.0	489.5	337.0	271.4	220.8	205.8	207.8	225.6	248.9	252.3
52.5°	4480.0	2981.5	539.4	357.6	287.1	229.7	208.5	203.7	220.1	240.6	244.8
55°	5035.9	3415.6	590.7	376.0	295.3	240.6	214.0	198.3	209.9	227.0	230.4
57.5°	5718.2	4022.7	679.6	393.8	300.8	248.2	219.5	192.8	196.9	209.2	211.9
60°	6641.8	4881.4	836.1	423.2	313.1	250.9	218.8	188.0	183.9	190.7	192.1
62.5°	7748.6	5813.9	966.7	460.1	333.6	253.0	214.7	184.6	173.0	173.0	174.3
65°	8405.6	6063.4	894.2	490.9	350.7	250.9	209.9	181.2	164.8	157.2	157.9
67.5°	7848.5	5332.6	766.4	497.0	350.0	241.3	202.4	175.0	156.6	144.9	144.3
69°	7150.4	4601.1	709.0	480.6	333.6	229.0	192.8	168.2	150.4	138.1	137.4
70°	6587.8	4154.6	671.4	462.8	315.9	220.1	185.3	162.0	145.6	134.0	132.6
72.5°	4789.7	2722.3	573.6	397.9	260.5	184.6	160.0	142.2	129.9	123.1	121.7
75°	2393.5	1298.3	465.6	322.7	199.6	147.7	131.3	119.0	112.8	111.4	110.8
77.5°	786.2	594.8	332.9	240.6	148.4	115.5	106.0	97.1	95.7	99.8	98.4
80°	432.1	345.9	211.3	159.3	101.2	84.8	83.4	78.6	80.7	87.5	86.1
82.5°	220.1	179.8	130.6	95.7	68.4	60.8	66.3	63.6	66.3	72.5	71.8
85°	108.7	98.4	82.7	58.1	45.1	39.0	47.2	49.2	50.6	55.4	55.4
87.5°	62.9	58.1	43.8	27.3	22.6	20.5	27.3	26.7	31.4	34.2	33.5
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)