

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: P199978

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199978
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: GWC-AF-02-LED-E1-SL3-7030-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 13181 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

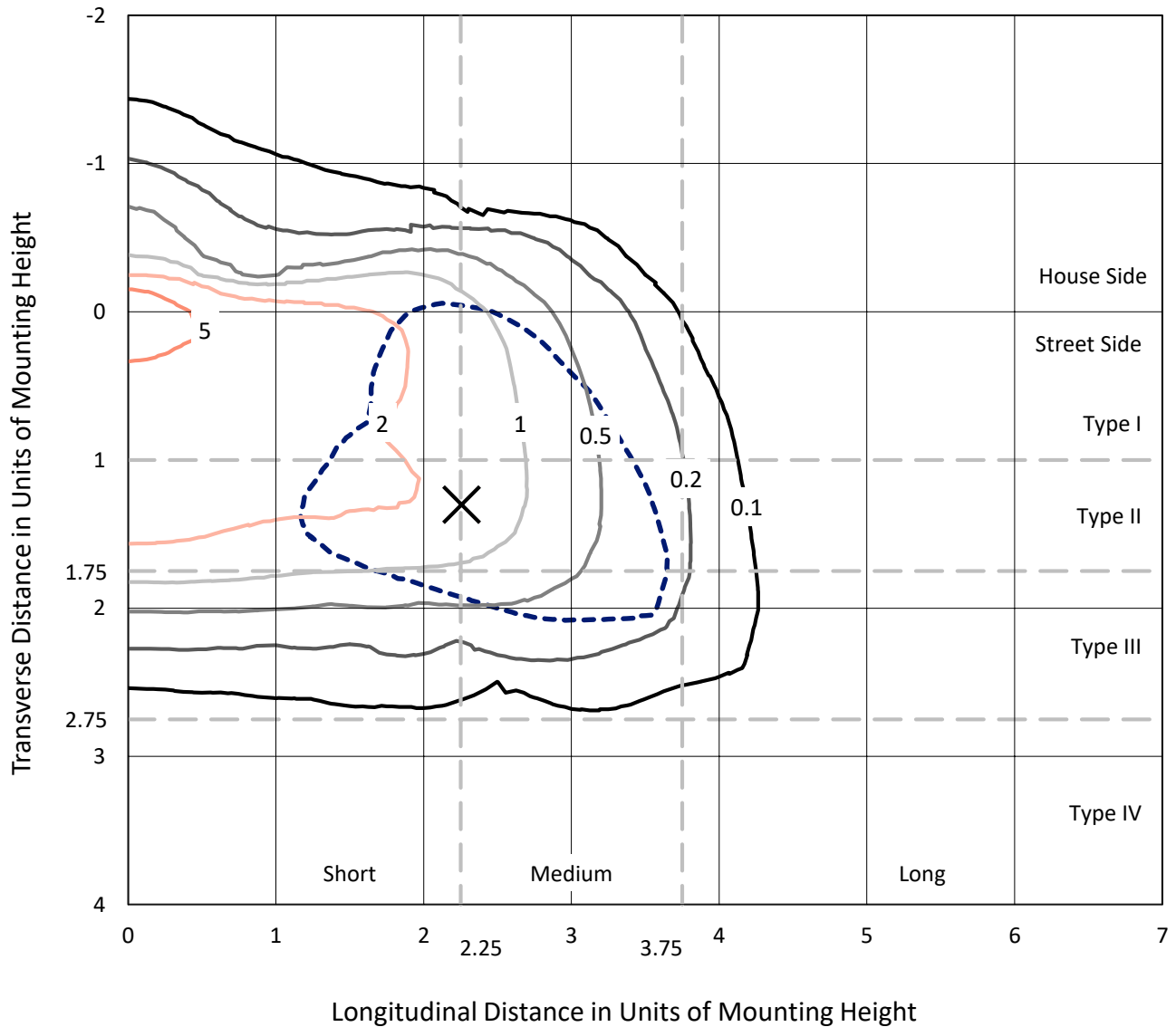
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

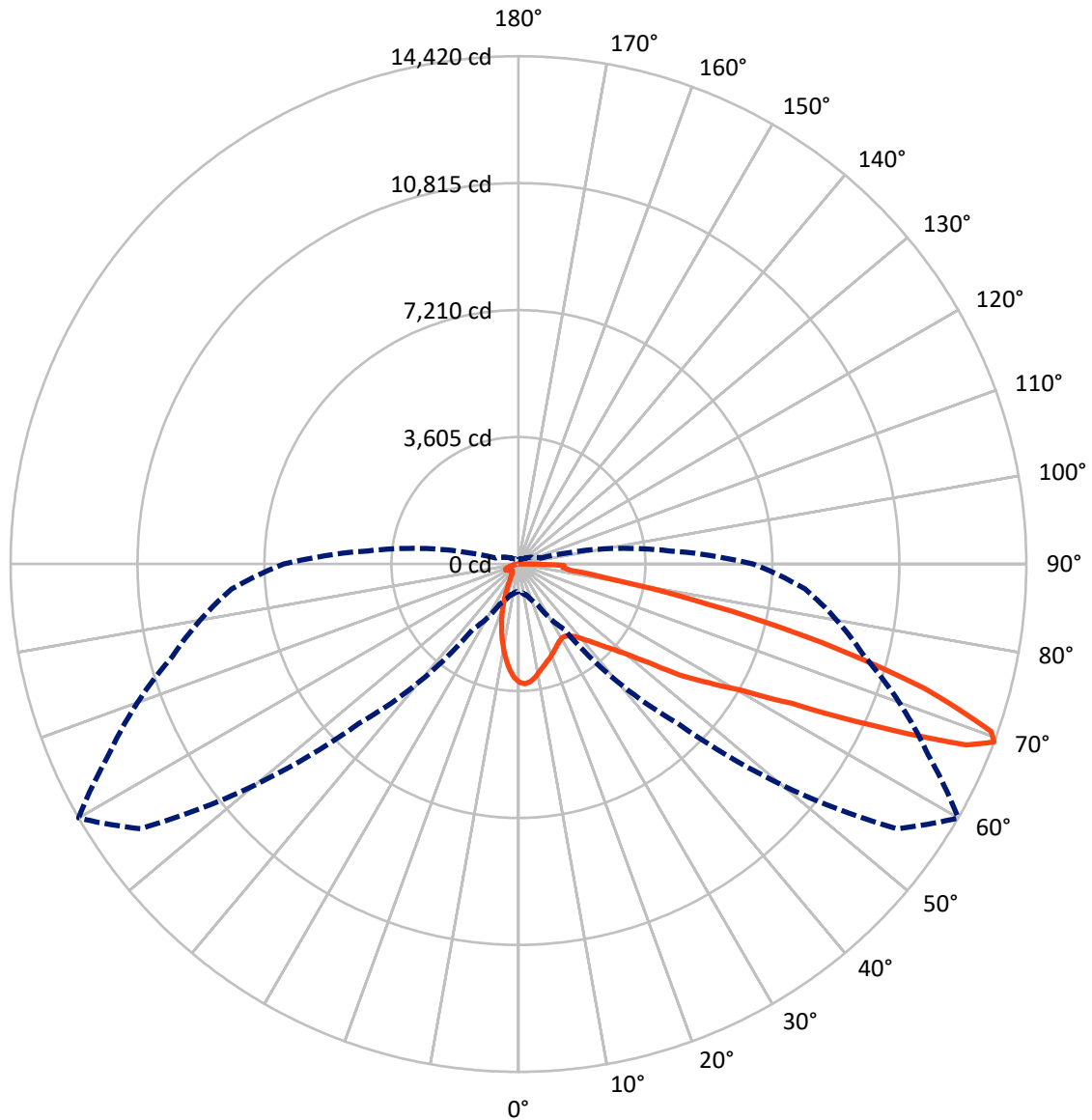
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 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	1875.3	0.0	1875.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11305.8	0.0	11305.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	13181.0	0.0	13181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	2.2
10°-20°	605.1	4.6
20°-30°	771.0	5.8
30°-40°	1059.9	8.0
40°-50°	1719.7	13.0
50°-60°	2758.0	20.9
60°-70°	3670.7	27.8
70°-80°	1981.9	15.0
80°-90°	330.7	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°	13181.0	100.0
0°-180°	13181.0	100.0

Coefficient of Utilization



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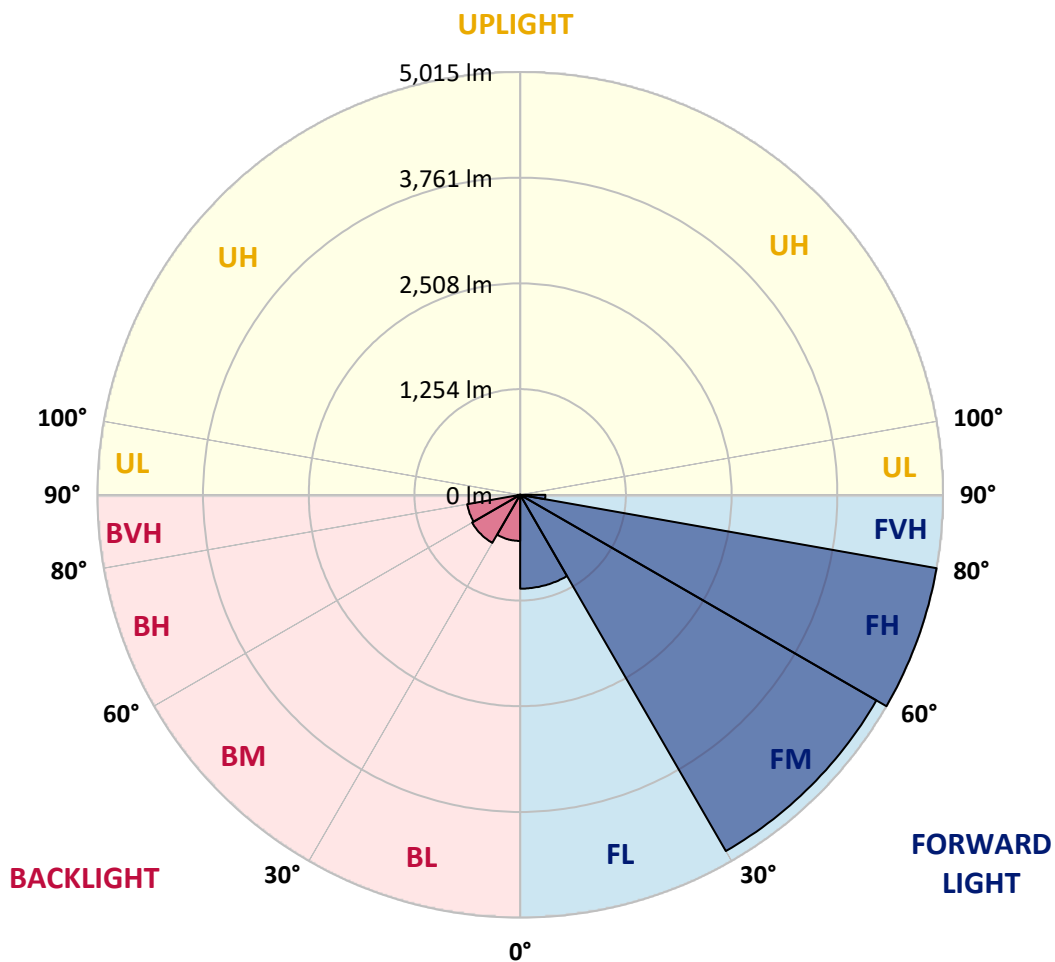
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.0	8.4			
FM (30°-60°)	4878.9	37.0			
FH (60°-80°)	5015.1	38.0			G3/7500
FVH (80°-90°)	298.8	2.3			G3/500
BL (0°-30°)	547.1	4.2	B2/1000		
BM (30°-60°)	658.8	5.0	B1/1000		
BH (60°-80°)	637.5	4.8	B2/1000		G2/1000
BVH (80°-90°)	31.8	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°	3358.7	3358.7	3358.7	3358.7	3358.7	3358.7	3358.7	3358.7	3358.7	3358.7	3358.7
2.5°	3427.5	3435.1	3432.0	3430.0	3435.7	3426.8	3408.4	3402.7	3393.7	3372.8	3337.1
5°	3298.9	3321.8	3320.5	3337.8	3366.4	3374.0	3365.7	3367.1	3350.4	3324.3	3265.1
7.5°	3076.6	3086.2	3091.3	3128.8	3181.1	3223.1	3258.7	3270.2	3262.6	3240.3	3163.9
10°	2847.4	2855.1	2867.2	2911.1	2977.4	3035.2	3102.8	3141.6	3158.1	3154.4	3069.0
12.5°	2650.7	2658.3	2674.2	2724.0	2802.8	2874.2	2972.3	3020.6	3060.2	3083.7	2991.9
15°	2474.2	2490.9	2506.2	2563.4	2651.9	2745.5	2856.4	2917.4	2978.6	3031.4	2923.9
17.5°	2336.8	2353.3	2362.3	2414.4	2508.7	2623.4	2753.3	2825.1	2901.6	2988.1	2856.4
20°	2257.2	2264.8	2261.0	2290.3	2375.0	2496.6	2650.7	2734.1	2826.4	2947.4	2788.9
22.5°	2234.9	2235.6	2221.6	2218.4	2273.1	2375.7	2541.2	2642.4	2755.7	2920.6	2730.9
25°	2289.0	2287.2	2248.9	2217.8	2223.4	2283.3	2435.5	2553.3	2696.5	2914.9	2686.3
27.5°	2409.3	2415.0	2358.5	2299.9	2241.9	2240.1	2355.3	2479.4	2648.1	2941.0	2667.2
30°	2578.1	2587.7	2527.1	2452.7	2343.8	2254.0	2324.1	2435.5	2618.2	2995.2	2664.1
32.5°	2762.7	2772.9	2727.1	2648.8	2506.2	2340.6	2345.7	2439.3	2617.0	3071.0	2685.7
35°	2959.5	2971.0	2947.4	2881.1	2722.6	2500.4	2428.5	2501.1	2658.3	3186.8	2743.6
37.5°	3179.2	3197.0	3203.4	3140.3	2971.0	2711.2	2564.1	2618.2	2751.9	3347.9	2850.0
40°	3495.6	3520.5	3518.5	3428.1	3255.6	2995.8	2773.5	2787.5	2897.8	3563.2	3020.0
42.5°	4101.8	4106.8	3948.3	3751.6	3568.9	3295.0	3020.6	3009.2	3098.9	3835.6	3270.2
45°	4872.9	4851.8	4499.1	4119.0	3896.0	3638.9	3342.1	3286.2	3354.3	4168.0	3583.4
47.5°	5512.7	5464.4	5018.8	4494.1	4242.5	4012.6	3719.7	3621.7	3659.3	4544.9	3988.4
50°	5735.0	5698.8	5329.4	4806.0	4570.5	4468.6	4184.5	4045.8	4055.9	4994.5	4462.8
52.5°	5687.3	5682.1	5435.7	5011.7	4877.4	4947.4	4842.9	4655.1	4555.8	5493.7	4974.8
55°	5574.5	5585.4	5496.2	5251.1	5228.2	5409.7	5703.2	5564.3	5255.6	5997.3	5503.8
57.5°	5182.9	5211.0	5407.0	5552.2	5792.9	6062.9	6395.9	6356.4	6008.8	6541.7	6132.9
60°	4175.7	4240.6	4766.6	5493.7	6374.3	7218.5	7367.6	7275.9	6785.5	7217.3	6963.8
62.5°	2925.8	2993.2	3618.5	4756.4	6278.8	8523.9	9104.6	8709.2	7901.1	8212.5	8039.3
65°	1566.3	1598.8	2076.4	3300.1	5300.7	8793.1	11643.2	11041.4	9667.4	9439.5	8959.4
67.5°	864.0	881.8	1064.6	1666.3	3395.0	7743.2	13260.5	13715.1	11875.0	10256.3	8791.9
69°	781.3	797.8	917.6	1262.0	2271.8	6402.3	13102.6	14419.9	12842.8	10175.6	8173.0
70°	764.0	779.3	886.9	1163.3	1838.9	5277.2	12573.4	14239.8	13073.3	9885.8	7633.1
72.5°	687.7	704.1	808.6	1044.8	1571.4	2631.0	9959.6	12039.9	11869.2	8571.6	5789.7
75°	641.2	656.4	833.4	1023.2	1504.6	1665.0	6565.9	8873.4	8725.0	5996.0	3121.9
77.5°	274.5	273.1	386.4	866.0	1526.9	1612.2	3528.1	5543.4	5057.5	2562.7	896.5
80°	183.3	180.2	183.3	254.7	1400.1	1621.1	1848.4	2813.7	2125.4	653.3	441.9
82.5°	157.9	155.3	161.0	155.3	492.2	1850.3	1571.4	1496.3	1010.4	371.3	219.1
85°	106.3	101.8	138.8	139.5	232.4	1644.1	1770.1	1263.9	817.6	220.2	108.2
87.5°	51.0	49.7	80.9	98.7	136.2	667.9	1985.9	1295.0	824.6	112.6	51.6
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°	3358.7	3358.7	3358.7	3358.7	3358.7	3358.7	3358.7	3358.7	3358.7	3358.7	3358.7
2.5°	3326.3	3300.1	3274.7	3244.1	3212.3	3176.6	3158.8	3140.9	3136.5	3131.4	3113.6
5°	3234.6	3197.7	3134.0	3063.9	2990.1	2918.1	2863.3	2828.9	2802.8	2789.5	2765.9
7.5°	3116.2	3062.0	2950.5	2829.6	2705.5	2592.0	2494.1	2432.3	2373.7	2346.4	2315.1
10°	3003.4	2922.5	2749.4	2571.1	2392.8	2221.6	2060.4	1946.5	1845.3	1788.6	1748.4
12.5°	2906.7	2795.8	2555.8	2314.5	2070.0	1826.2	1584.8	1395.0	1236.5	1153.1	1110.4
15°	2812.5	2678.7	2371.8	2065.5	1751.7	1420.0	1102.9	887.6	756.4	704.1	686.3
17.5°	2727.1	2555.8	2187.2	1814.7	1423.1	1021.9	741.1	622.7	572.4	555.2	549.5
20°	2634.8	2431.7	1995.5	1552.3	1080.6	714.4	578.7	526.5	506.2	501.1	498.6
22.5°	2545.6	2309.4	1812.2	1271.6	776.2	551.4	497.2	475.6	472.4	476.9	476.9
25°	2469.8	2199.9	1614.1	978.0	569.9	464.2	445.1	440.0	452.2	468.6	471.8
27.5°	2413.2	2110.2	1403.3	722.1	454.0	403.7	403.0	411.4	441.3	473.1	479.4
30°	2374.3	2024.8	1178.0	520.8	380.8	355.3	365.5	383.3	427.2	472.4	484.6
32.5°	2354.6	1961.7	943.0	403.0	326.0	312.1	329.2	350.8	394.1	436.2	452.2
35°	2370.0	1915.4	721.4	336.2	287.8	277.0	294.8	315.9	341.3	359.1	371.3
37.5°	2427.2	1896.8	544.4	301.1	261.6	251.6	265.5	277.6	287.8	293.0	298.6
40°	2550.7	1916.5	436.2	283.3	247.0	234.4	240.1	244.5	250.9	256.0	258.5
42.5°	2732.8	1975.7	390.9	276.3	239.4	220.9	219.7	221.6	229.9	239.4	241.4
45°	2987.4	2080.2	387.8	280.8	235.6	210.1	204.5	206.9	219.7	234.4	236.9
47.5°	3312.8	2239.4	413.2	294.1	238.7	204.5	194.8	198.0	213.9	233.7	236.9
50°	3707.0	2461.6	455.9	313.9	252.8	205.6	191.6	193.6	210.1	231.7	234.9
52.5°	4172.5	2776.8	502.4	333.0	267.4	213.9	194.2	189.8	205.1	224.1	228.0
55°	4690.2	3181.1	550.1	350.1	275.2	224.1	199.3	184.6	195.5	211.4	214.5
57.5°	5325.7	3746.5	632.9	366.8	280.1	231.1	204.5	179.5	183.3	194.8	197.4
60°	6185.8	4546.2	778.7	394.1	291.6	233.7	203.8	175.2	171.3	177.6	178.9
62.5°	7216.7	5414.7	900.3	428.6	310.8	235.6	200.0	171.9	161.0	161.0	162.4
65°	7828.5	5647.2	832.9	457.1	326.6	233.7	195.5	168.7	153.4	146.4	147.1
67.5°	7309.7	4966.5	713.8	462.9	326.0	224.7	188.5	163.1	145.9	134.9	134.4
69°	6659.5	4285.1	660.3	447.6	310.8	213.3	179.5	156.7	140.1	128.6	128.0
70°	6135.5	3869.4	625.3	431.0	294.1	205.1	172.5	150.9	135.6	124.8	123.6
72.5°	4460.9	2535.5	534.2	370.6	242.5	171.9	149.0	132.4	121.0	114.6	113.3
75°	2229.2	1209.2	433.6	300.6	186.0	137.5	122.3	110.8	105.1	103.8	103.1
77.5°	732.2	554.0	310.1	224.1	138.2	107.6	98.7	90.4	89.1	93.0	91.7
80°	402.4	322.2	196.7	148.4	94.2	79.0	77.7	73.2	75.2	81.5	80.2
82.5°	205.1	167.5	121.6	89.1	63.7	56.7	61.7	59.2	61.7	67.5	66.8
85°	101.3	91.7	77.0	54.1	42.1	36.3	43.9	45.9	47.1	51.6	51.6
87.5°	58.6	54.1	40.8	25.4	21.0	19.1	25.4	24.8	29.3	31.8	31.2
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)