

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: P200298

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200298
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-SL3-7050-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 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: 13628 lumens
Efficiency: N/A
Efficacy: 105.6 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

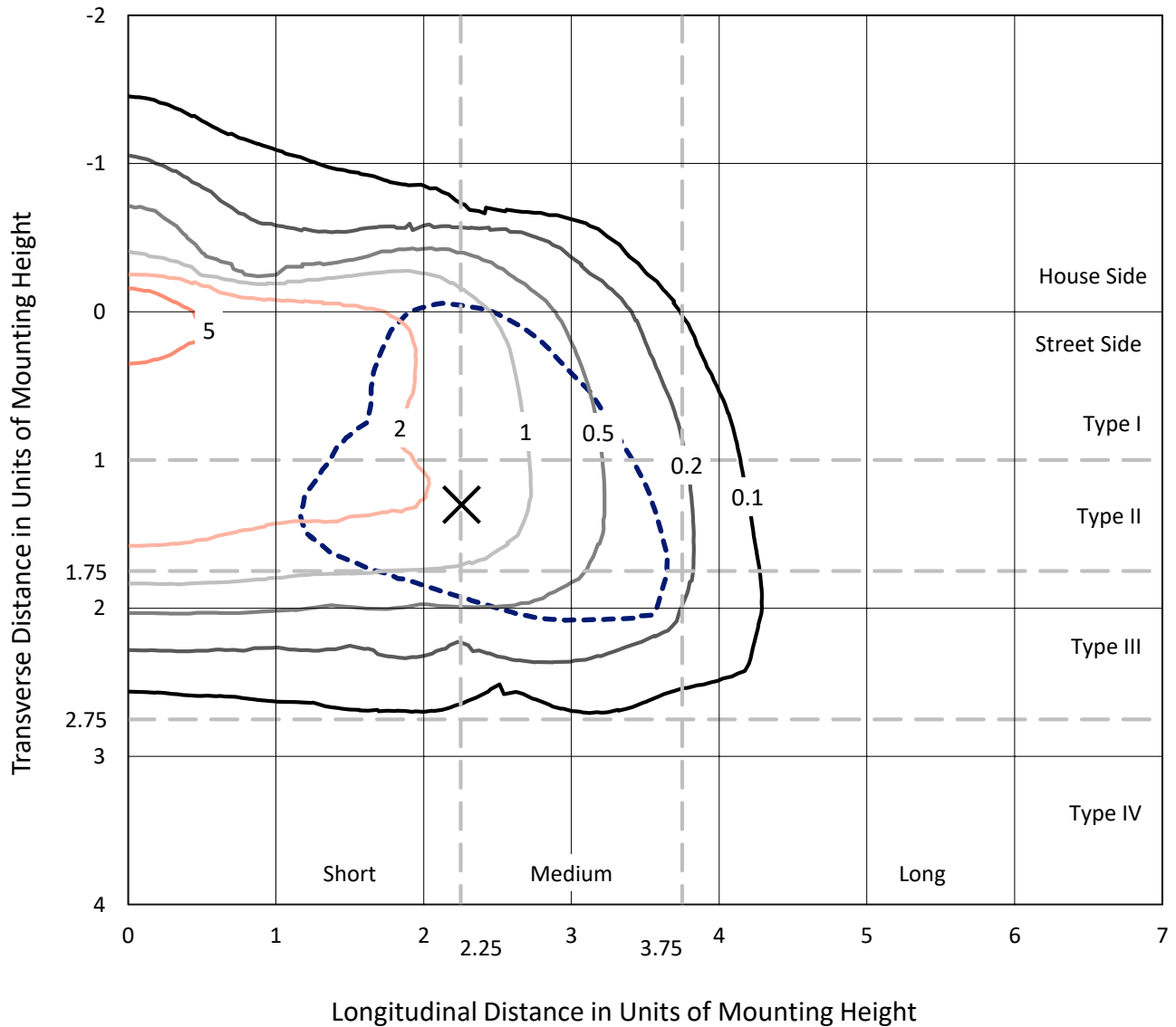
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

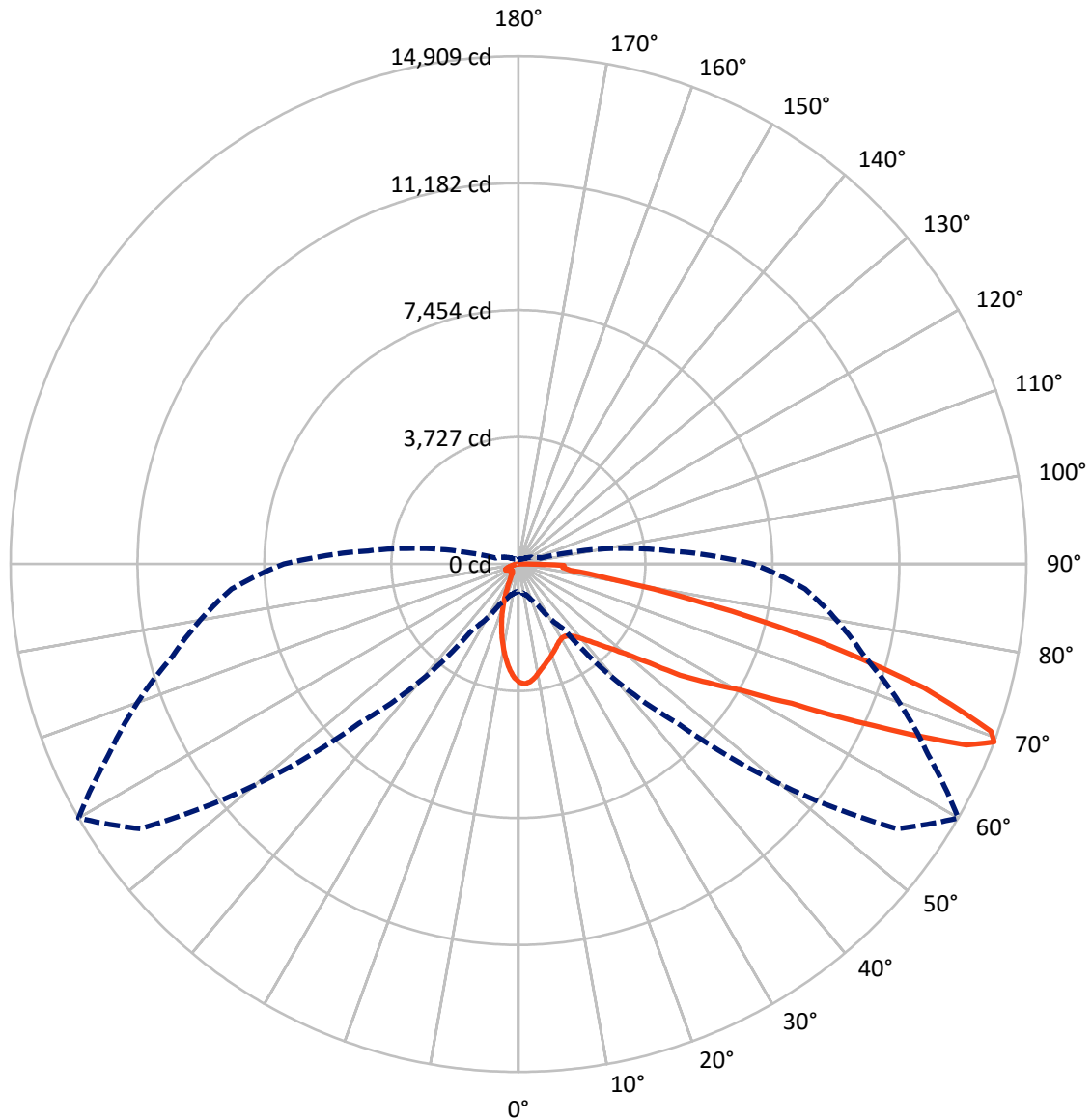
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 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	1938.8	0.0	1938.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11689.2	0.0	11689.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	13628.0	0.0	13628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.6	2.2
10°-20°	625.6	4.6
20°-30°	797.1	5.8
30°-40°	1095.8	8.0
40°-50°	1778.1	13.0
50°-60°	2851.6	20.9
60°-70°	3795.2	27.8
70°-80°	2049.1	15.0
80°-90°	341.9	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°	13628.0	100.0
0°-180°	13628.0	100.0

Coefficient of Utilization



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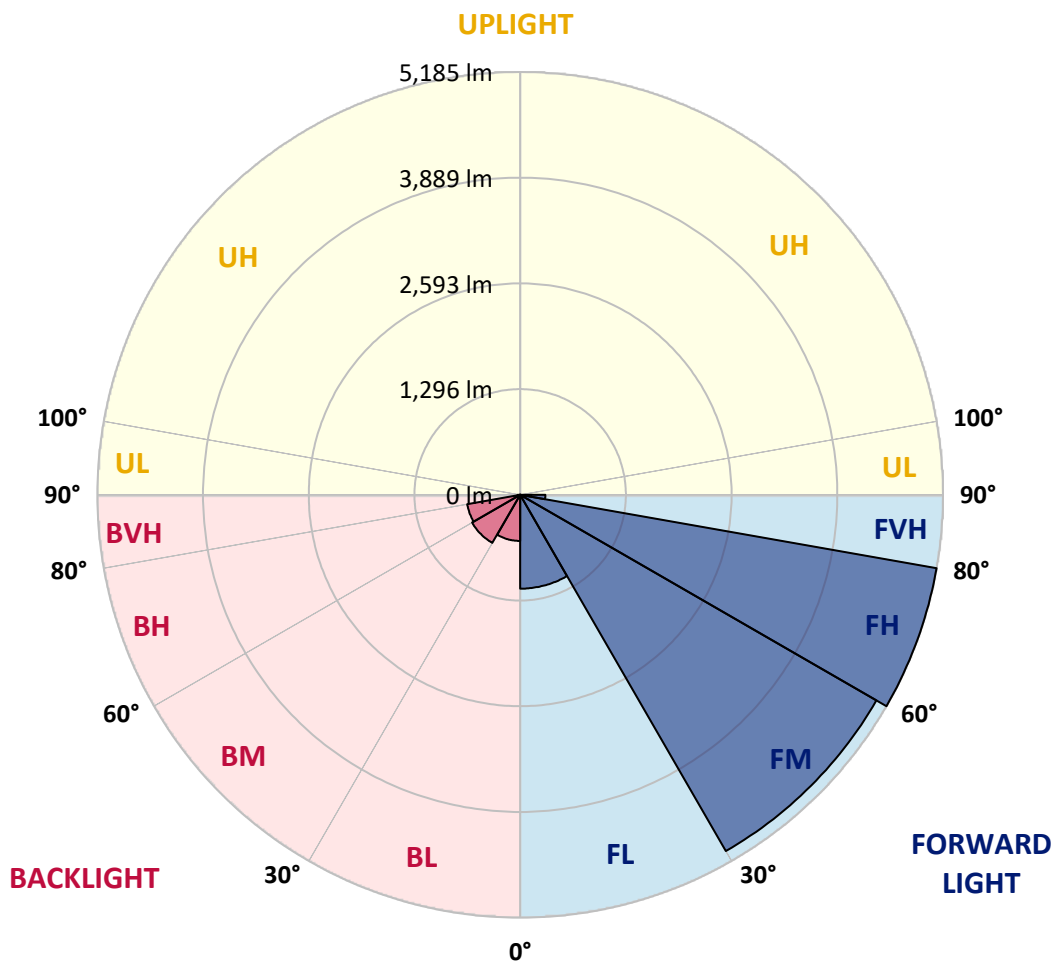
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1150.7	8.4			
FM	(30°-60°)	5044.3	37.0			
FH	(60°-80°)	5185.2	38.0			G3/7500
FVH	(80°-90°)	309.0	2.3			G3/500
BL	(0°-30°)	565.6	4.2	B2/1000		
BM	(30°-60°)	681.2	5.0	B1/1000		
BH	(60°-80°)	659.1	4.8	B2/1000		G2/1000
BVH	(80°-90°)	32.9	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°	3472.6	3472.6	3472.6	3472.6	3472.6	3472.6	3472.6	3472.6	3472.6	3472.6	3472.6
2.5°	3543.7	3551.6	3548.3	3546.4	3552.3	3543.1	3524.0	3518.0	3508.8	3487.1	3450.2
5°	3410.7	3434.4	3433.1	3450.9	3480.5	3488.4	3479.9	3481.2	3464.1	3437.1	3375.8
7.5°	3181.0	3190.9	3196.1	3235.0	3289.0	3332.4	3369.3	3381.1	3373.2	3350.2	3271.2
10°	2944.0	2951.9	2964.4	3009.8	3078.3	3138.2	3208.0	3248.1	3265.3	3261.3	3173.1
12.5°	2740.6	2748.5	2764.9	2816.3	2897.9	2971.6	3073.0	3123.1	3163.9	3188.2	3093.4
15°	2558.2	2575.3	2591.1	2650.4	2741.9	2838.7	2953.2	3016.4	3079.6	3134.2	3023.0
17.5°	2416.0	2433.1	2442.4	2496.3	2593.8	2712.3	2846.6	2921.0	2999.9	3089.5	2953.2
20°	2333.7	2341.6	2337.7	2368.0	2455.5	2581.3	2740.6	2826.8	2922.3	3047.3	2883.4
22.5°	2310.7	2311.4	2296.9	2293.6	2350.2	2456.2	2627.3	2732.0	2849.2	3019.7	2823.5
25°	2366.6	2364.7	2325.2	2292.9	2298.8	2360.7	2518.1	2639.9	2788.0	3013.8	2777.4
27.5°	2491.1	2497.0	2438.4	2377.8	2317.9	2316.0	2435.1	2563.5	2737.9	3040.8	2757.7
30°	2665.5	2675.4	2612.9	2535.8	2423.3	2330.4	2402.9	2518.1	2707.0	3096.7	2754.4
32.5°	2856.4	2867.0	2819.6	2738.6	2591.1	2420.0	2425.2	2522.0	2705.7	3175.1	2776.8
35°	3059.9	3071.7	3047.3	2978.9	2815.0	2585.2	2510.8	2585.9	2748.5	3294.9	2836.7
37.5°	3287.0	3305.4	3312.0	3246.8	3071.7	2803.1	2651.0	2707.0	2845.2	3461.4	2946.6
40°	3614.2	3639.8	3637.9	3544.4	3366.0	3097.4	2867.6	2882.1	2996.0	3683.9	3122.4
42.5°	4240.9	4246.1	4082.2	3878.8	3689.9	3406.8	3123.1	3111.2	3204.0	3965.7	3381.1
45°	5038.1	5016.4	4651.7	4258.7	4028.2	3762.3	3455.5	3397.6	3468.0	4309.3	3705.0
47.5°	5699.7	5649.7	5188.9	4646.4	4386.4	4148.7	3845.9	3744.5	3783.3	4699.1	4123.7
50°	5929.5	5891.9	5510.1	4969.0	4725.4	4620.1	4326.5	4182.9	4193.5	5163.8	4614.1
52.5°	5880.1	5874.8	5620.1	5181.6	5042.7	5115.1	5007.2	4813.0	4710.3	5680.0	5143.4
55°	5763.6	5774.8	5682.6	5429.1	5405.4	5593.1	5896.5	5753.0	5433.7	6200.7	5690.5
57.5°	5358.7	5387.7	5590.4	5740.5	5989.4	6268.5	6612.8	6572.0	6212.5	6763.5	6340.9
60°	4317.2	4384.4	4928.2	5680.0	6590.4	7463.3	7617.4	7522.6	7015.7	7462.0	7200.0
62.5°	3025.0	3094.7	3741.2	4917.6	6491.7	8812.9	9413.3	9004.5	8169.1	8491.0	8311.9
65°	1619.5	1653.0	2146.8	3412.1	5480.5	9091.4	12038.0	11415.9	9995.2	9759.5	9263.2
67.5°	893.3	911.8	1100.7	1722.8	3510.1	8005.8	13710.1	14180.1	12277.6	10604.2	9090.0
69°	807.8	824.9	948.6	1304.8	2348.9	6619.4	13546.8	14908.9	13278.3	10520.6	8450.2
70°	790.0	805.8	917.0	1202.7	1901.2	5456.1	12999.8	14722.6	13516.6	10221.0	7891.9
72.5°	711.0	728.1	836.1	1080.3	1624.7	2720.2	10297.4	12448.1	12271.7	8862.3	5986.1
75°	662.9	678.7	861.7	1057.9	1555.6	1721.5	6788.6	9174.3	9020.9	6199.4	3227.7
77.5°	283.7	282.4	399.6	895.3	1578.6	1666.9	3647.7	5731.3	5229.0	2649.7	926.9
80°	189.6	186.3	189.6	263.3	1447.6	1676.1	1911.1	2909.1	2197.5	675.4	456.9
82.5°	163.3	160.6	166.6	160.6	508.9	1913.1	1624.7	1547.0	1044.7	383.8	226.5
85°	109.9	105.3	143.5	144.2	240.3	1699.8	1830.1	1306.8	845.3	227.8	111.9
87.5°	52.7	51.3	83.6	102.0	140.9	690.6	2053.3	1339.0	852.5	116.5	53.3
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°	3472.6	3472.6	3472.6	3472.6	3472.6	3472.6	3472.6	3472.6	3472.6	3472.6	3472.6
2.5°	3439.0	3412.1	3385.7	3354.1	3321.2	3284.3	3265.9	3247.5	3242.9	3237.6	3219.2
5°	3344.2	3306.1	3240.2	3167.8	3091.5	3017.1	2960.5	2924.9	2897.9	2884.1	2859.7
7.5°	3221.8	3165.8	3050.6	2925.6	2797.2	2680.0	2578.6	2514.8	2454.2	2425.9	2393.6
10°	3105.3	3021.7	2842.6	2658.3	2474.0	2296.9	2130.3	2012.5	1907.8	1849.2	1807.7
12.5°	3005.2	2890.7	2642.5	2393.0	2140.2	1888.1	1638.6	1442.4	1278.5	1192.2	1148.1
15°	2907.8	2769.5	2452.2	2135.6	1811.0	1468.0	1140.2	917.7	782.1	728.1	709.7
17.5°	2819.6	2642.5	2261.3	1876.2	1471.3	1056.6	766.3	643.8	591.8	574.1	568.1
20°	2724.1	2514.1	2063.2	1605.0	1117.2	738.6	598.4	544.4	523.4	518.1	515.5
22.5°	2632.0	2387.7	1873.6	1314.7	802.5	570.1	514.1	491.8	488.5	493.1	493.1
25°	2553.6	2274.5	1668.8	1011.2	589.2	479.9	460.2	454.9	467.4	484.5	487.8
27.5°	2495.0	2181.7	1450.9	746.5	469.4	417.4	416.7	425.3	456.2	489.1	495.7
30°	2454.9	2093.4	1217.9	538.5	393.7	367.3	377.9	396.3	441.7	488.5	501.0
32.5°	2434.5	2028.3	975.0	416.7	337.1	322.6	340.3	362.7	407.5	450.9	467.4
35°	2450.3	1980.2	745.9	347.6	297.6	286.4	304.8	326.5	352.9	371.3	383.8
37.5°	2509.5	1961.1	562.9	311.4	270.6	260.0	274.5	287.0	297.6	302.8	308.8
40°	2637.2	1981.5	450.9	293.0	255.4	242.3	248.2	252.8	259.4	264.6	267.3
42.5°	2825.5	2042.8	404.2	285.7	247.5	228.4	227.1	229.1	237.7	247.5	249.5
45°	3088.8	2150.7	400.9	290.3	243.6	217.2	211.3	214.0	227.1	242.3	244.9
47.5°	3425.2	2315.3	427.2	304.1	246.9	211.3	201.4	204.7	221.2	241.6	244.9
50°	3832.7	2545.1	471.4	324.6	261.4	212.6	198.2	200.1	217.2	239.6	242.9
52.5°	4314.0	2870.9	519.4	344.3	276.5	221.2	200.8	196.2	212.0	231.7	235.7
55°	4849.2	3289.0	568.8	362.1	284.4	231.7	206.1	190.9	202.1	218.6	221.9
57.5°	5506.2	3873.5	654.4	379.2	289.7	239.0	211.3	185.6	189.6	201.4	204.1
60°	6395.5	4700.4	805.1	407.5	301.5	241.6	210.7	181.0	177.1	183.7	185.0
62.5°	7461.4	5598.3	930.9	443.0	321.3	243.6	206.7	177.7	166.6	166.6	167.9
65°	8094.0	5838.6	861.1	472.7	337.7	241.6	202.1	174.5	158.7	151.4	152.1
67.5°	7557.5	5134.9	738.0	478.6	337.1	232.4	194.9	168.5	150.8	139.6	138.9
69°	6885.3	4430.5	682.7	462.8	321.3	220.5	185.6	161.9	144.8	133.0	132.3
70°	6343.5	4000.6	646.5	445.7	304.1	212.0	178.4	156.0	140.2	129.0	127.7
72.5°	4612.2	2621.4	552.3	383.1	250.8	177.7	154.0	136.9	125.1	118.5	117.2
75°	2304.8	1250.1	448.3	310.7	192.2	142.2	126.4	114.5	108.6	107.3	106.6
77.5°	757.1	572.7	320.6	231.7	142.9	111.3	102.0	93.5	92.2	96.1	94.8
80°	416.1	333.1	203.4	153.4	97.4	81.6	80.3	75.7	77.7	84.3	82.9
82.5°	212.0	173.1	125.7	92.2	65.8	58.6	63.9	61.2	63.9	69.8	69.1
85°	104.7	94.8	79.7	56.0	43.4	37.5	45.4	47.4	48.7	53.3	53.3
87.5°	60.6	56.0	42.1	26.3	21.7	19.7	26.3	25.7	30.3	32.9	32.3
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)