

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: P200282

Luminaire Tested: **GWC-AF-02-LED-E1-SL2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7050-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13350 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

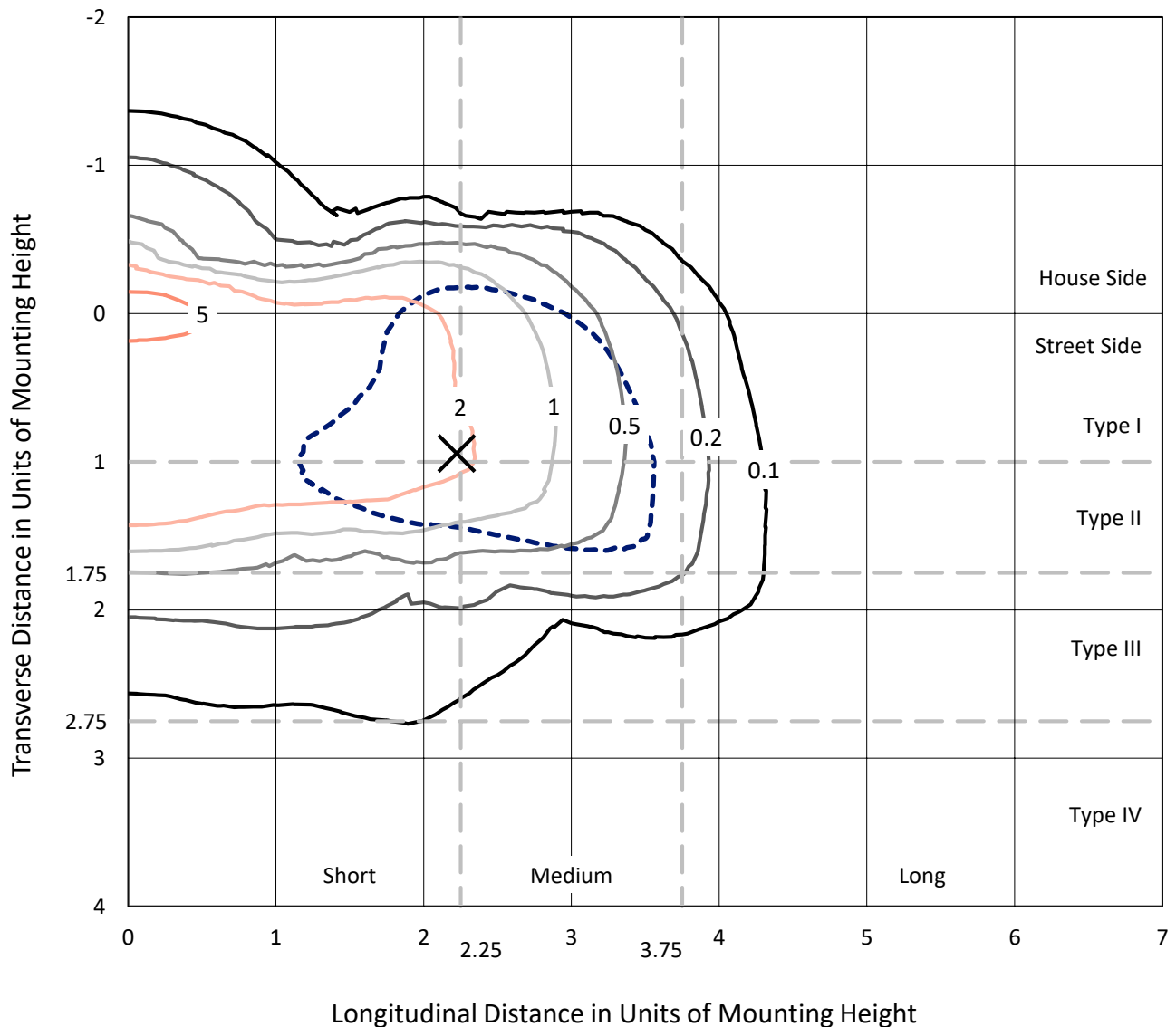
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

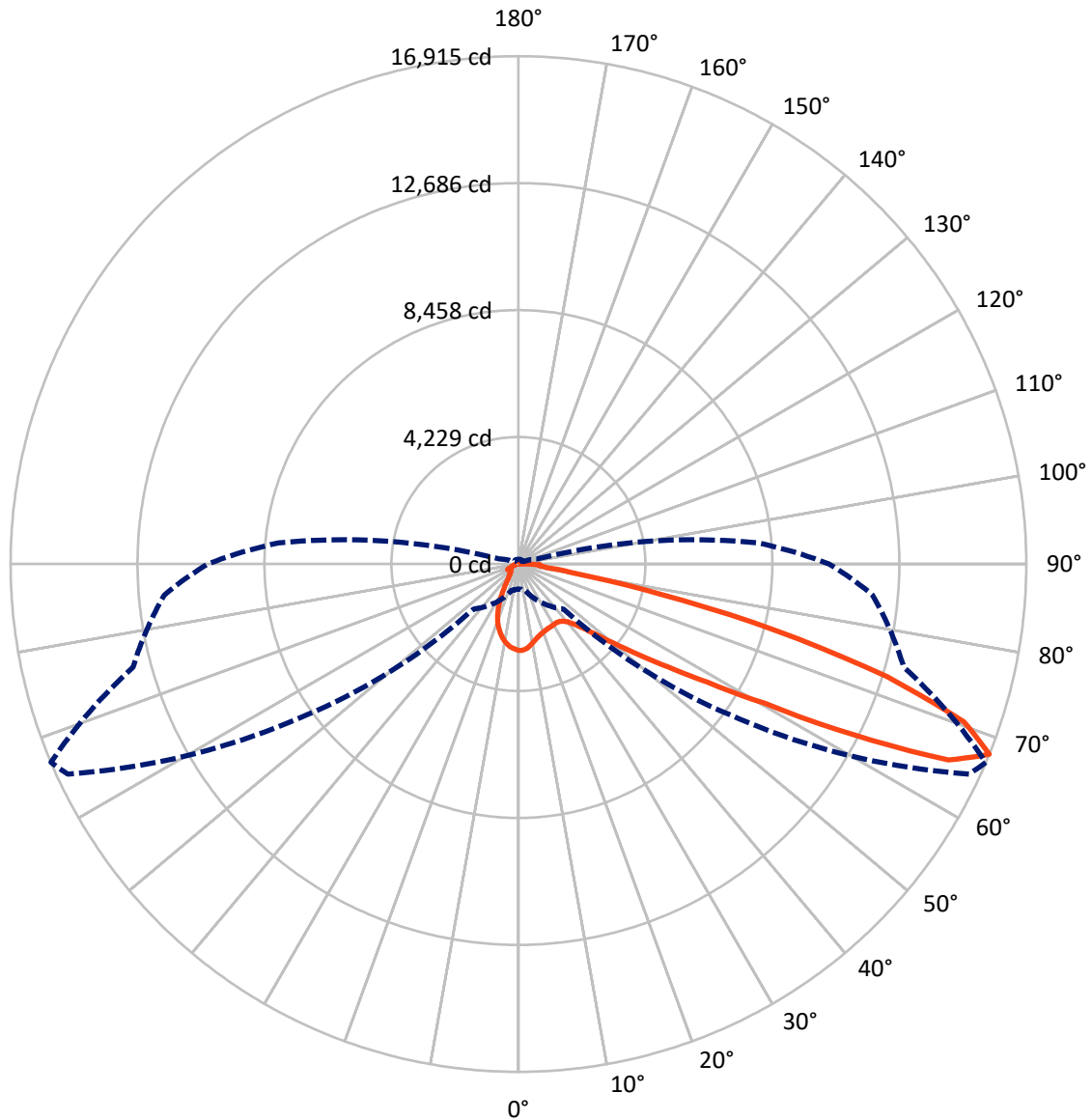
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2212.0	0.0	2212.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	11138.0	0.0	11138.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	13350.0	0.0	13350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	1.8
10°-20°	568.4	4.3
20°-30°	770.5	5.8
30°-40°	1095.4	8.2
40°-50°	1832.6	13.7
50°-60°	2899.2	21.7
60°-70°	3693.3	27.7
70°-80°	1934.5	14.5
80°-90°	310.3	2.3
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°	13350.0	100.0
0°-180°	13350.0	100.0

Coefficient of Utilization



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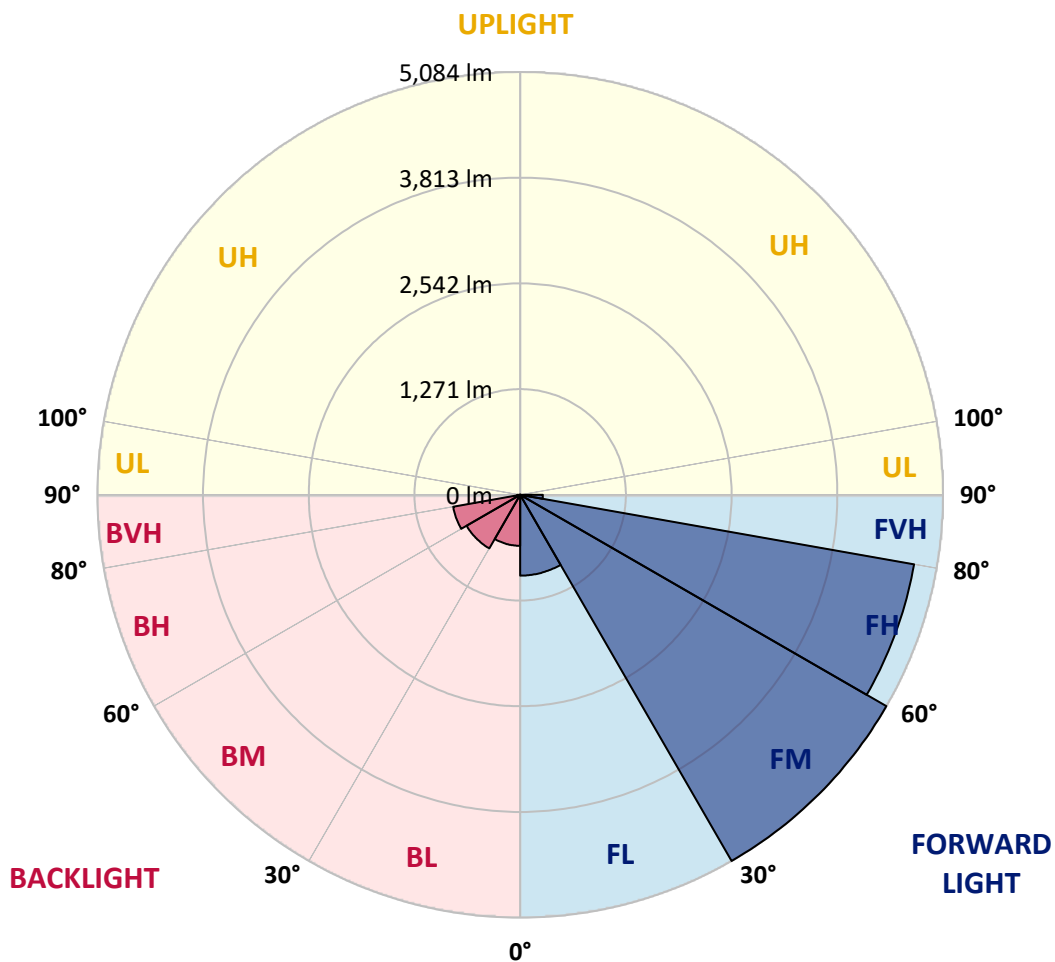
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	971.6	7.3			
FM (30°-60°)	5084.0	38.1			
FH (60°-80°)	4809.7	36.0			G2/5000
FVH (80°-90°)	272.8	2.0			G3/500
BL (0°-30°)	613.1	4.6	B2/1000		
BM (30°-60°)	743.3	5.6	B1/1000		
BH (60°-80°)	818.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	37.5	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6
2.5°	2761.1	2765.7	2780.2	2789.4	2830.8	2848.6	2861.1	2873.6	2875.6	2881.5	2875.6
5°	2471.4	2481.3	2508.3	2538.5	2618.9	2682.1	2748.6	2817.7	2830.2	2875.0	2887.5
7.5°	2246.9	2244.3	2266.7	2302.9	2385.2	2472.7	2589.2	2726.8	2753.8	2854.5	2903.3
10°	2083.0	2081.0	2104.7	2142.2	2220.6	2303.5	2435.2	2623.5	2661.7	2822.3	2918.4
12.5°	1961.8	1962.5	1986.2	2027.7	2107.3	2190.9	2324.6	2523.4	2572.1	2784.8	2934.2
15°	1881.5	1886.8	1905.9	1950.0	2027.7	2111.3	2242.3	2448.4	2503.0	2755.1	2952.0
17.5°	1854.5	1863.1	1869.7	1901.9	1968.4	2052.0	2180.4	2393.1	2451.0	2734.7	2967.8
20°	1879.5	1889.4	1876.9	1888.1	1930.2	2004.0	2131.7	2349.6	2408.9	2711.7	2969.8
22.5°	1986.9	1996.1	1959.2	1926.9	1924.3	1969.1	2091.5	2315.4	2376.6	2694.6	2970.4
25°	2175.8	2181.7	2119.8	2044.8	1971.7	1956.6	2063.2	2291.7	2356.8	2679.4	2957.9
27.5°	2407.5	2412.1	2341.0	2230.4	2083.6	1986.2	2053.4	2277.8	2345.7	2666.3	2936.8
30°	2689.3	2711.0	2615.6	2476.0	2262.0	2073.8	2073.1	2270.6	2333.1	2643.9	2895.4
32.5°	2977.7	2986.9	2921.0	2779.5	2502.3	2227.8	2128.4	2275.9	2329.9	2616.9	2842.7
35°	3270.0	3281.8	3239.0	3125.1	2830.8	2453.6	2236.4	2306.8	2350.3	2607.7	2805.8
37.5°	3648.5	3664.3	3605.0	3473.4	3230.5	2759.7	2416.1	2384.5	2412.8	2634.0	2794.6
40°	4246.9	4239.7	4066.5	3870.4	3667.6	3151.5	2672.8	2516.2	2532.6	2718.9	2828.9
42.5°	4943.4	4925.7	4627.4	4319.3	4148.2	3625.5	3012.5	2744.6	2741.3	2886.1	2949.3
45°	5499.1	5484.6	5216.0	4836.1	4699.2	4165.3	3451.7	3085.0	3060.6	3151.5	3171.9
47.5°	5799.9	5800.6	5645.9	5335.8	5332.5	4851.3	4015.9	3577.4	3535.3	3578.1	3556.3
50°	5694.6	5708.4	5692.0	5593.2	5910.5	5750.6	4752.5	4264.0	4179.1	4221.3	4137.6
52.5°	5185.1	5202.8	5300.3	5451.7	6153.5	6837.5	5834.8	5117.2	5018.5	5003.4	4910.5
55°	4281.8	4303.5	4502.4	4913.8	5951.4	7567.6	7542.6	6204.8	6047.5	5904.6	5865.1
57.5°	2951.3	2987.5	3307.5	3918.4	5297.6	7788.1	9576.2	7755.2	7435.2	6936.2	6945.4
60°	1663.6	1705.7	2083.0	2638.0	3978.3	7548.5	11123.2	10103.5	9428.0	8144.3	8212.7
62.5°	1057.9	1103.4	1389.7	1832.8	2387.1	6258.1	11757.2	13368.2	12510.4	9633.4	9700.6
65°	856.5	876.2	1011.2	1512.9	1733.4	3770.3	11276.0	16057.5	15737.5	11523.5	11210.1
67.5°	836.1	842.7	912.5	1269.9	1662.3	2119.2	8994.2	16560.4	16915.3	13288.5	11838.9
70°	826.2	849.3	1028.3	1212.0	1591.9	1787.4	5404.9	15181.9	15742.1	13750.0	11002.1
72.5°	400.9	399.6	517.5	1096.1	1793.3	1853.9	2776.9	12283.9	12846.1	11912.6	9040.9
75°	323.2	295.6	282.4	401.6	1724.2	1914.4	1769.6	8452.4	8859.2	7986.9	5557.7
77.5°	306.8	273.9	250.8	251.5	728.8	2030.3	1499.0	4678.1	4796.6	3607.7	1522.7
80°	254.1	223.8	207.4	233.7	352.9	1933.5	1620.8	2117.2	1942.7	886.1	506.9
82.5°	176.4	160.6	156.0	196.2	282.4	1377.9	1884.8	1137.6	953.9	443.7	312.7
85°	112.6	96.1	106.7	142.9	219.9	636.0	1941.4	886.8	705.1	281.8	176.4
87.5°	52.0	42.1	52.7	79.0	143.5	219.2	1847.3	996.1	726.1	148.8	111.3
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°	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6
2.5°	2880.9	2868.4	2858.5	2840.1	2819.7	2799.9	2782.1	2759.7	2753.2	2747.2	2756.5
5°	2890.1	2877.6	2841.4	2784.8	2722.2	2663.6	2605.0	2555.0	2524.1	2506.9	2516.8
7.5°	2903.9	2886.1	2811.1	2707.1	2594.5	2491.8	2385.8	2300.9	2238.3	2208.7	2217.3
10°	2916.4	2882.2	2759.7	2603.7	2439.1	2286.4	2119.2	1980.9	1878.2	1824.2	1837.4
12.5°	2921.7	2867.1	2688.0	2474.7	2248.9	2025.0	1778.8	1572.1	1424.6	1370.7	1359.5
15°	2927.0	2849.9	2609.0	2327.9	2019.1	1702.5	1357.5	1110.0	987.5	960.5	954.6
17.5°	2928.3	2820.3	2519.5	2168.6	1749.9	1318.6	928.3	770.9	771.6	815.0	820.3
20°	2914.5	2776.2	2410.8	1970.4	1427.3	911.8	637.3	610.3	709.7	818.3	831.5
22.5°	2882.9	2717.6	2287.7	1739.3	1057.9	600.4	493.1	522.7	651.1	784.1	799.2
25°	2842.7	2646.5	2142.2	1471.4	700.5	429.2	413.4	449.6	536.5	625.4	634.0
27.5°	2788.1	2562.2	1979.0	1164.6	454.9	353.5	364.1	388.4	424.0	463.5	467.4
30°	2717.6	2461.5	1804.5	849.3	343.7	318.0	333.1	346.3	361.4	383.8	385.8
32.5°	2636.6	2364.7	1625.4	586.6	304.8	299.5	311.4	318.0	329.8	343.7	345.0
35°	2568.8	2272.6	1439.8	414.8	288.4	285.7	293.6	296.3	307.4	322.6	323.9
37.5°	2530.0	2197.5	1248.2	334.4	277.2	273.2	277.8	277.8	293.6	316.0	319.3
40°	2532.6	2156.1	1056.6	302.2	267.9	262.7	263.3	263.3	283.7	308.1	310.1
42.5°	2604.4	2166.6	886.8	289.7	260.7	254.8	251.5	253.5	270.6	286.4	287.7
45°	2772.9	2241.0	727.5	281.8	253.5	251.5	244.2	243.6	250.2	257.4	257.4
47.5°	3049.4	2387.8	619.5	276.5	247.5	246.9	238.3	229.8	229.1	231.7	231.7
50°	3499.1	2640.6	547.1	270.6	243.6	238.3	228.4	215.3	210.7	212.6	212.6
52.5°	4173.2	3091.5	519.4	262.7	235.0	226.5	215.3	202.1	198.2	198.8	198.8
55°	5057.3	3784.1	515.5	253.5	225.8	212.0	202.8	192.9	188.3	189.6	189.6
57.5°	6137.7	4742.0	585.9	239.0	213.3	197.5	192.2	185.7	182.4	184.3	183.7
60°	7451.0	5995.5	869.0	223.8	200.8	184.3	184.3	179.1	176.4	178.4	177.8
62.5°	8963.9	7435.2	1221.9	212.6	187.6	173.8	176.4	173.8	171.2	172.5	171.8
65°	10305.6	8373.4	1144.2	204.1	174.5	163.9	168.5	167.2	165.2	166.6	165.9
67.5°	10344.4	8025.8	642.5	194.9	162.0	154.1	160.6	160.0	158.7	160.0	159.3
70°	9231.8	6776.9	362.1	177.8	148.8	142.2	151.4	150.8	149.4	152.1	151.4
72.5°	7396.4	4917.8	264.7	156.7	135.6	129.7	140.2	139.6	139.6	143.5	141.5
75°	4256.1	2530.6	211.3	134.3	121.8	117.2	126.4	127.1	128.4	133.6	129.7
77.5°	1213.3	788.7	172.5	113.9	104.7	102.7	111.9	113.2	113.9	119.8	114.6
80°	451.0	363.4	142.2	95.5	85.6	86.2	94.8	96.8	97.4	103.4	96.8
82.5°	287.7	239.6	115.2	73.7	67.2	66.5	77.0	79.7	79.7	80.3	76.4
85°	167.9	143.5	86.9	53.3	47.4	45.4	57.3	61.9	59.9	58.6	56.0
87.5°	112.6	98.8	53.3	29.6	25.7	24.4	33.6	36.9	35.6	33.6	31.6
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)