

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: P199976

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199976
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
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1050mA 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: 12016.3 lumens
Efficiency: N/A
Efficacy: 106.3 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

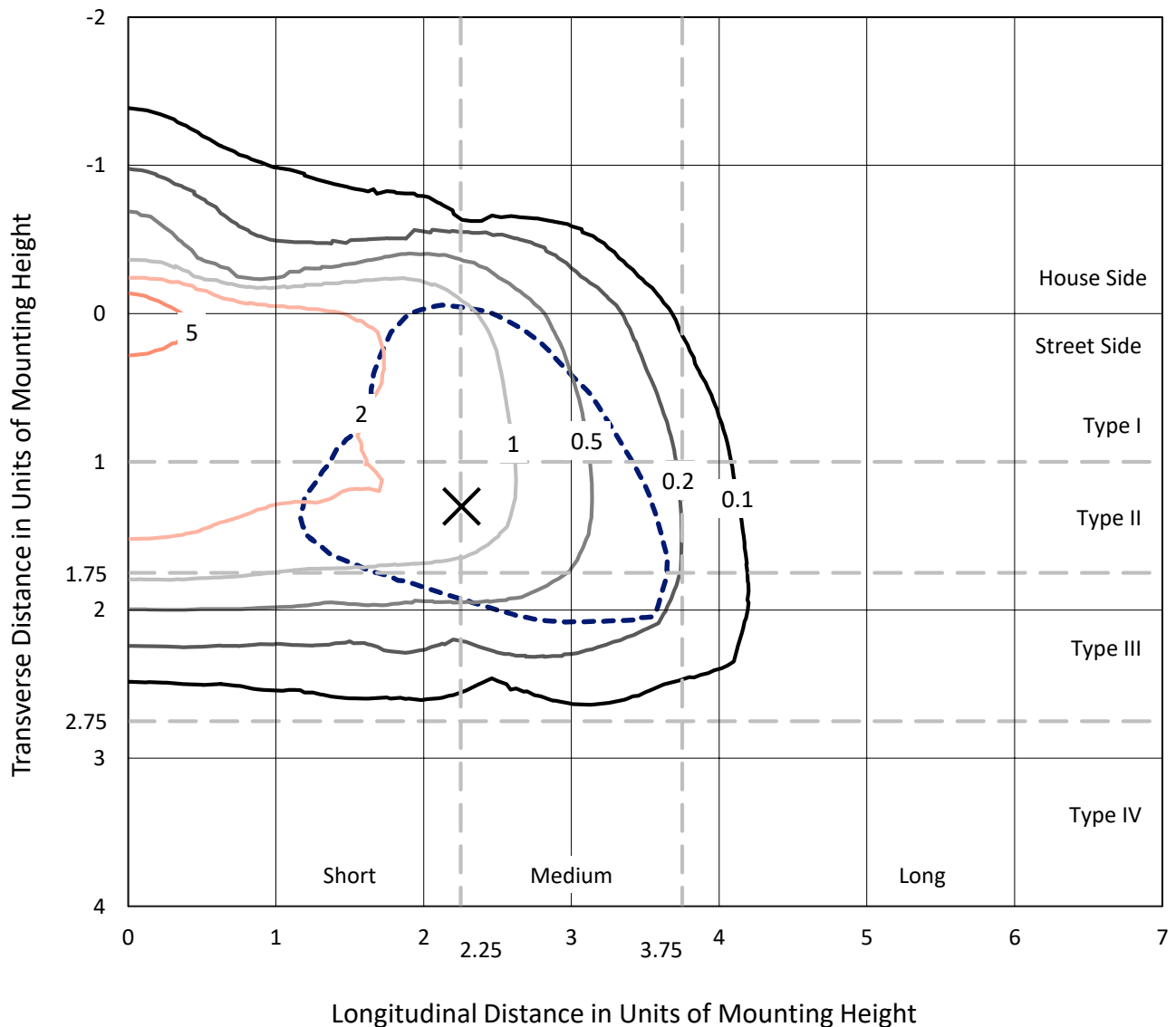
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

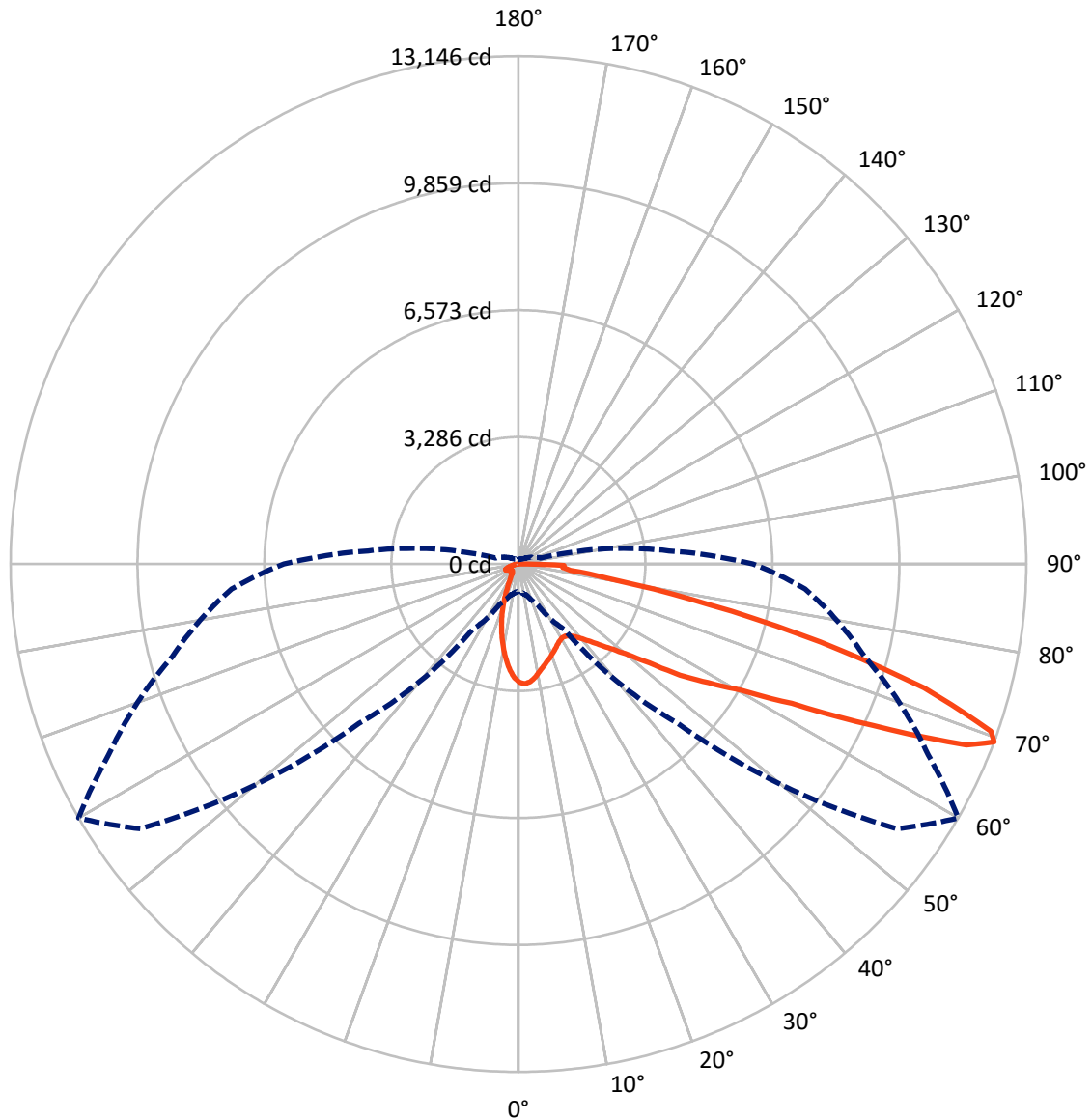
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 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	1709.5	0.0	1709.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10306.8	0.0	10306.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	12016.3	0.0	12016.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.9	2.2
10°-20°	551.6	4.6
20°-30°	702.8	5.8
30°-40°	966.2	8.0
40°-50°	1567.8	13.0
50°-60°	2514.3	20.9
60°-70°	3346.4	27.8
70°-80°	1806.8	15.0
80°-90°	301.5	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°	12016.3	100.0
0°-180°	12016.3	100.0



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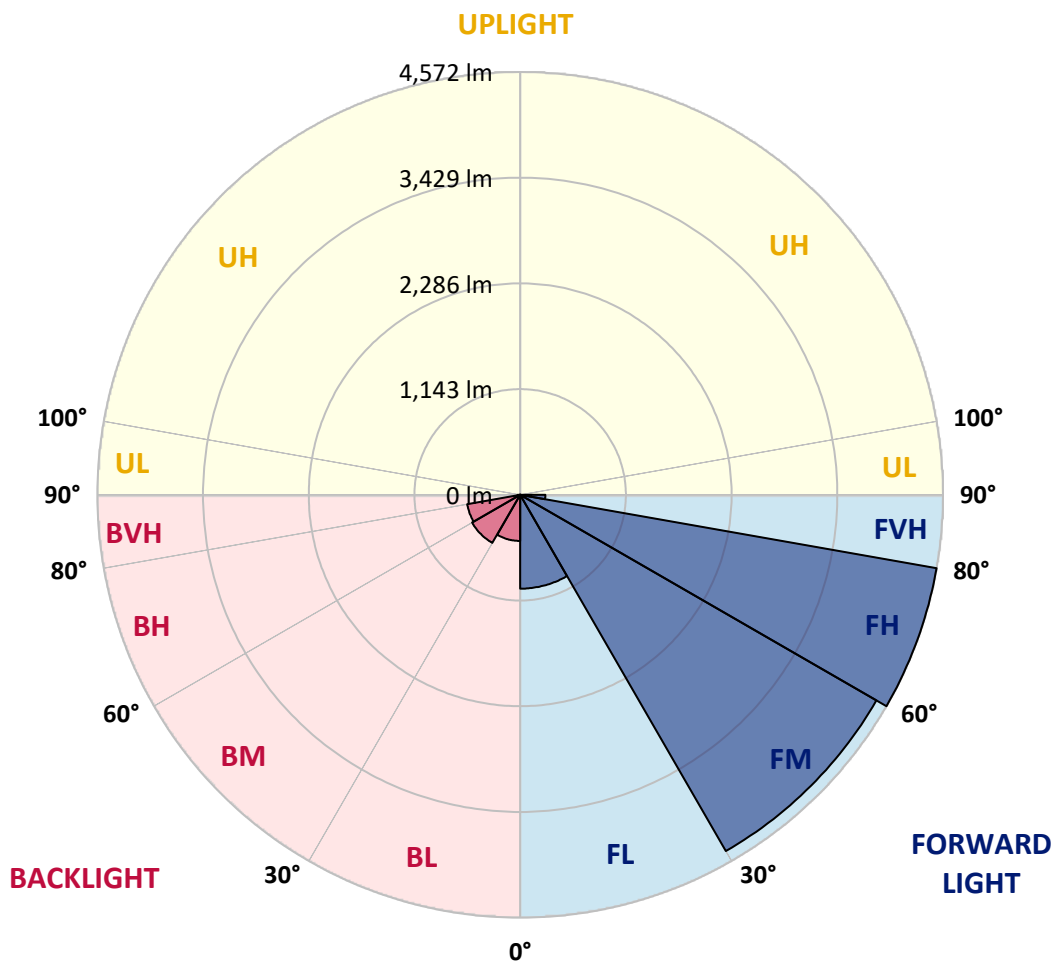
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1014.6	8.4			
FM	(30°-60°)	4447.7	37.0			
FH	(60°-80°)	4572.0	38.0			G2/5000
FVH	(80°-90°)	272.4	2.3			G3/500
BL	(0°-30°)	498.7	4.2	B1/500		
BM	(30°-60°)	600.6	5.0	B1/1000		
BH	(60°-80°)	581.2	4.8	B2/1000		G2/1000
BVH	(80°-90°)	29.0	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°	3062.0	3062.0	3062.0	3062.0	3062.0	3062.0	3062.0	3062.0	3062.0	3062.0	3062.0
2.5°	3124.6	3131.6	3128.7	3127.0	3132.1	3124.0	3107.3	3102.0	3093.9	3074.7	3042.3
5°	3007.4	3028.2	3027.1	3042.8	3068.9	3075.8	3068.3	3069.5	3054.5	3030.7	2976.7
7.5°	2804.8	2813.5	2818.2	2852.4	2900.0	2938.3	2970.8	2981.2	2974.2	2954.0	2884.3
10°	2595.8	2602.8	2613.8	2653.9	2714.2	2767.1	2828.6	2864.0	2879.1	2875.6	2797.8
12.5°	2416.5	2423.5	2437.9	2483.3	2555.2	2620.2	2709.6	2753.8	2789.7	2811.1	2727.5
15°	2255.6	2270.7	2284.7	2336.9	2417.6	2502.9	2603.9	2659.7	2715.4	2763.6	2665.5
17.5°	2130.3	2145.5	2153.5	2201.1	2287.1	2391.4	2509.9	2575.6	2645.1	2724.2	2603.9
20°	2057.8	2064.7	2061.1	2088.0	2165.1	2276.0	2416.5	2492.5	2576.7	2687.0	2542.5
22.5°	2037.4	2038.0	2025.2	2022.4	2072.2	2165.7	2316.7	2408.9	2512.2	2662.5	2489.6
25°	2086.8	2085.0	2050.2	2021.8	2027.0	2081.5	2220.2	2327.7	2458.3	2657.4	2448.9
27.5°	2196.4	2201.7	2150.0	2096.6	2043.8	2042.0	2147.2	2260.3	2414.2	2681.1	2431.6
30°	2350.2	2359.0	2303.8	2236.0	2136.7	2054.8	2118.6	2220.2	2386.9	2730.5	2428.7
32.5°	2518.7	2527.9	2486.0	2414.7	2284.7	2133.9	2138.4	2223.8	2385.6	2799.5	2448.4
35°	2698.0	2708.4	2687.0	2626.6	2482.1	2279.4	2213.9	2280.0	2423.5	2905.2	2501.2
37.5°	2898.2	2914.5	2920.3	2862.8	2708.4	2471.7	2337.5	2386.9	2508.8	3052.0	2598.1
40°	3186.8	3209.4	3207.7	3125.3	2967.9	2731.1	2528.5	2541.3	2641.7	3248.3	2753.2
42.5°	3739.4	3744.0	3599.4	3420.2	3253.5	3003.9	2753.8	2743.3	2825.1	3496.8	2981.2
45°	4442.3	4423.2	4101.6	3755.0	3551.9	3317.3	3046.8	2995.8	3057.8	3799.7	3266.9
47.5°	5025.6	4981.5	4575.2	4096.9	3867.7	3658.1	3391.1	3301.7	3335.9	4143.3	3636.0
50°	5228.3	5195.2	4858.4	4381.3	4166.6	4073.7	3814.8	3688.3	3697.6	4553.2	4068.5
52.5°	5184.7	5180.1	4955.5	4568.7	4446.3	4510.2	4415.0	4243.7	4153.2	5008.2	4535.2
55°	5081.9	5091.8	5010.5	4787.0	4766.2	4931.6	5199.2	5072.7	4791.1	5467.4	5017.5
57.5°	4725.0	4750.5	4929.3	5061.7	5281.0	5527.2	5830.7	5794.8	5477.8	5963.7	5591.1
60°	3806.7	3865.9	4345.3	5008.2	5811.1	6580.6	6716.5	6632.9	6186.0	6579.6	6348.5
62.5°	2667.2	2728.8	3298.7	4336.1	5724.0	7770.6	8300.1	7939.6	7202.9	7486.8	7328.9
65°	1427.9	1457.5	1892.9	3008.6	4832.3	8016.3	10614.3	10065.8	8813.2	8605.4	8167.6
67.5°	787.6	803.9	970.6	1519.0	3095.0	7059.0	12088.8	12503.2	10825.6	9350.1	8015.0
69°	712.3	727.3	836.5	1150.5	2071.1	5836.5	11944.8	13145.7	11707.9	9276.4	7450.8
70°	696.5	710.5	808.6	1060.5	1676.4	4810.9	11462.4	12981.5	11918.1	9012.2	6958.6
72.5°	626.9	642.0	737.2	952.5	1432.6	2398.5	9079.6	10975.9	10820.4	7814.2	5278.2
75°	584.5	598.4	759.8	932.8	1371.6	1517.9	5985.8	8089.3	7954.1	5466.2	2845.9
77.5°	250.2	249.0	352.4	789.4	1392.0	1469.7	3216.4	5053.6	4610.6	2336.4	817.3
80°	167.1	164.2	167.1	232.1	1276.4	1477.8	1685.1	2565.1	1937.6	595.6	402.8
82.5°	144.0	141.6	146.9	141.6	448.7	1686.9	1432.6	1364.1	921.2	338.3	199.7
85°	96.9	92.9	126.5	127.1	211.9	1498.7	1613.6	1152.2	745.3	200.8	98.7
87.5°	46.4	45.3	73.8	89.9	124.2	608.9	1810.4	1180.6	751.7	102.7	47.0
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°	3062.0	3062.0	3062.0	3062.0	3062.0	3062.0	3062.0	3062.0	3062.0	3062.0	3062.0
2.5°	3032.4	3008.6	2985.3	2957.4	2928.4	2895.9	2879.6	2863.4	2859.4	2854.7	2838.4
5°	2948.8	2915.0	2857.0	2793.2	2725.9	2660.3	2610.3	2578.9	2555.2	2543.0	2521.4
7.5°	2840.7	2791.5	2689.9	2579.6	2466.4	2363.1	2273.6	2217.4	2164.0	2139.0	2110.6
10°	2738.0	2664.3	2506.4	2343.9	2181.4	2025.2	1878.3	1774.5	1682.1	1630.4	1594.0
12.5°	2649.9	2548.8	2330.0	2110.1	1887.1	1664.8	1444.7	1271.8	1127.2	1051.2	1012.3
15°	2563.9	2442.1	2162.2	1883.0	1596.9	1294.4	1005.4	809.2	689.7	642.0	625.7
17.5°	2486.0	2330.0	1993.9	1654.3	1297.4	931.7	675.7	567.7	521.8	506.2	501.0
20°	2401.9	2216.8	1819.1	1415.1	985.1	651.3	527.6	480.0	461.5	456.8	454.5
22.5°	2320.6	2105.3	1652.0	1159.1	707.6	502.7	453.3	433.6	430.7	434.8	434.8
25°	2251.7	2005.5	1471.5	891.5	519.5	423.2	405.8	401.1	412.1	427.2	430.2
27.5°	2199.9	1923.6	1279.3	658.3	413.9	367.9	367.4	375.0	402.3	431.2	437.0
30°	2164.5	1845.8	1073.9	474.8	347.1	323.9	333.1	349.4	389.5	430.7	441.7
32.5°	2146.5	1788.3	859.7	367.4	297.1	284.4	300.1	319.8	359.4	397.6	412.1
35°	2160.5	1746.1	657.6	306.5	262.3	252.5	268.8	287.9	311.2	327.3	338.3
37.5°	2212.7	1729.2	496.2	274.6	238.6	229.3	242.0	253.1	262.3	267.0	272.3
40°	2325.4	1747.2	397.6	258.3	225.2	213.6	218.8	222.9	228.7	233.4	235.7
42.5°	2491.3	1801.1	356.4	252.0	218.3	201.5	200.3	202.0	209.6	218.3	220.0
45°	2723.5	1896.4	353.5	256.0	214.8	191.5	186.3	188.7	200.3	213.6	215.9
47.5°	3020.2	2041.5	376.7	268.1	217.7	186.3	177.6	180.5	195.0	213.0	215.9
50°	3379.5	2244.0	415.6	286.2	230.4	187.5	174.7	176.5	191.5	211.3	214.1
52.5°	3803.8	2531.4	458.1	303.6	243.7	195.0	177.0	172.9	187.0	204.4	207.8
55°	4275.7	2900.0	501.5	319.2	250.7	204.4	181.7	168.4	178.2	192.8	195.6
57.5°	4855.1	3415.5	577.0	334.4	255.4	210.8	186.3	163.7	167.1	177.6	180.0
60°	5639.2	4144.5	709.8	359.4	265.8	213.0	185.7	159.6	156.1	161.9	163.2
62.5°	6578.9	4936.3	820.7	390.6	283.3	214.8	182.3	156.7	146.9	146.9	148.0
65°	7136.9	5148.1	759.3	416.9	297.7	213.0	178.2	153.8	139.9	133.6	134.1
67.5°	6663.7	4527.6	650.7	422.0	297.1	204.9	171.9	148.6	133.0	123.0	122.5
69°	6071.1	3906.6	601.9	408.1	283.3	194.5	163.7	142.8	127.8	117.2	116.7
70°	5593.3	3527.4	570.0	393.0	268.1	187.0	157.4	137.5	123.7	113.7	112.6
72.5°	4066.7	2311.4	487.0	337.8	221.1	156.7	135.8	120.7	110.3	104.5	103.4
75°	2032.2	1102.3	395.3	274.0	169.5	125.4	111.5	100.9	95.8	94.6	94.1
77.5°	667.6	505.0	282.7	204.4	125.9	98.2	89.9	82.4	81.3	84.7	83.6
80°	366.9	293.7	179.4	135.3	85.9	72.0	70.8	66.7	68.5	74.3	73.1
82.5°	187.0	152.6	110.9	81.3	58.0	51.7	56.3	54.0	56.3	61.5	60.9
85°	92.4	83.6	70.3	49.3	38.4	33.1	40.1	41.8	42.9	47.0	47.0
87.5°	53.4	49.3	37.1	23.3	19.1	17.4	23.3	22.6	26.7	29.1	28.4
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)