

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639022

Luminaire Tested: GWS-SA5B-722-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12852.4 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

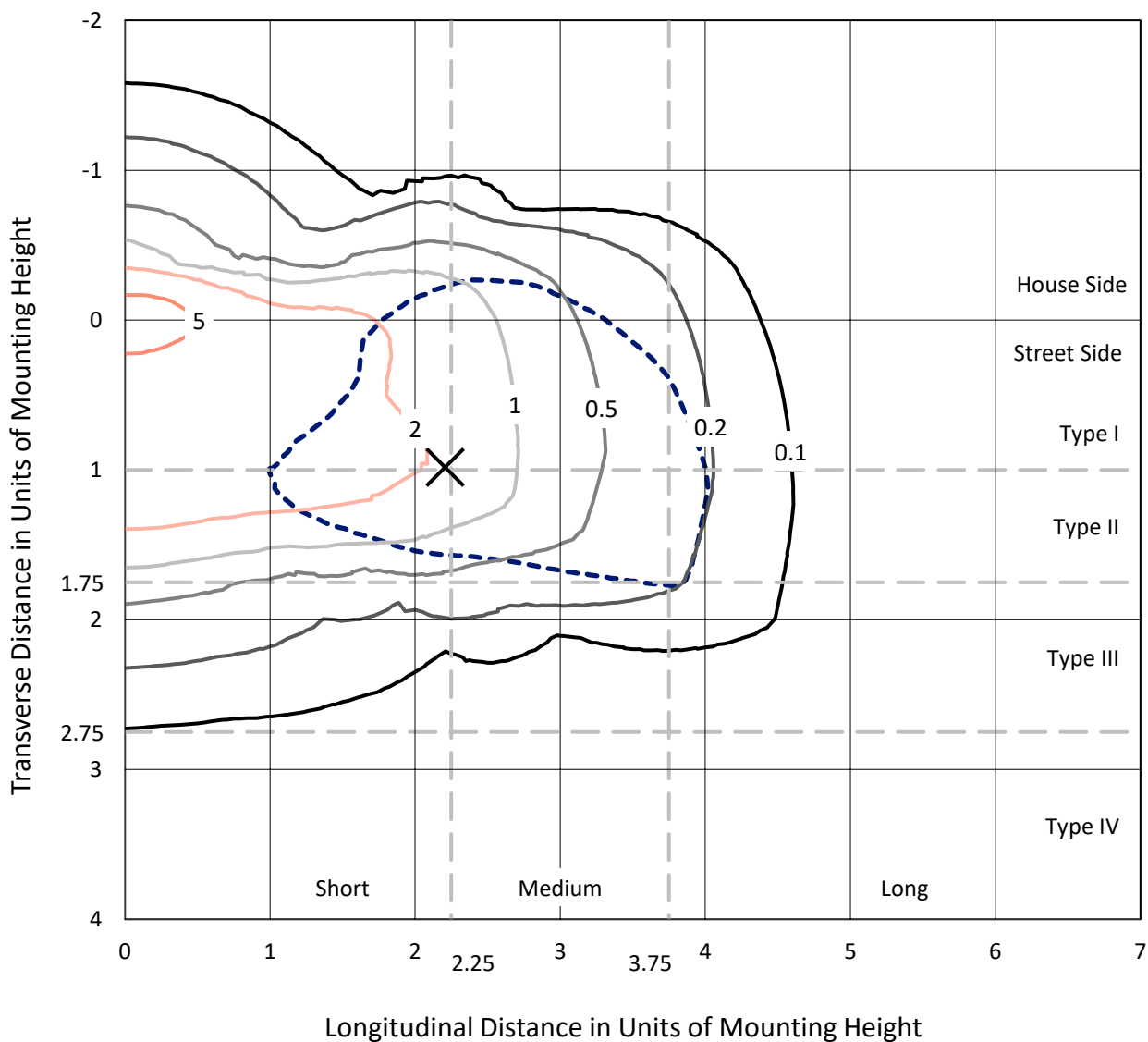


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Iso-Footcandle Lines of Horizontal Illumination

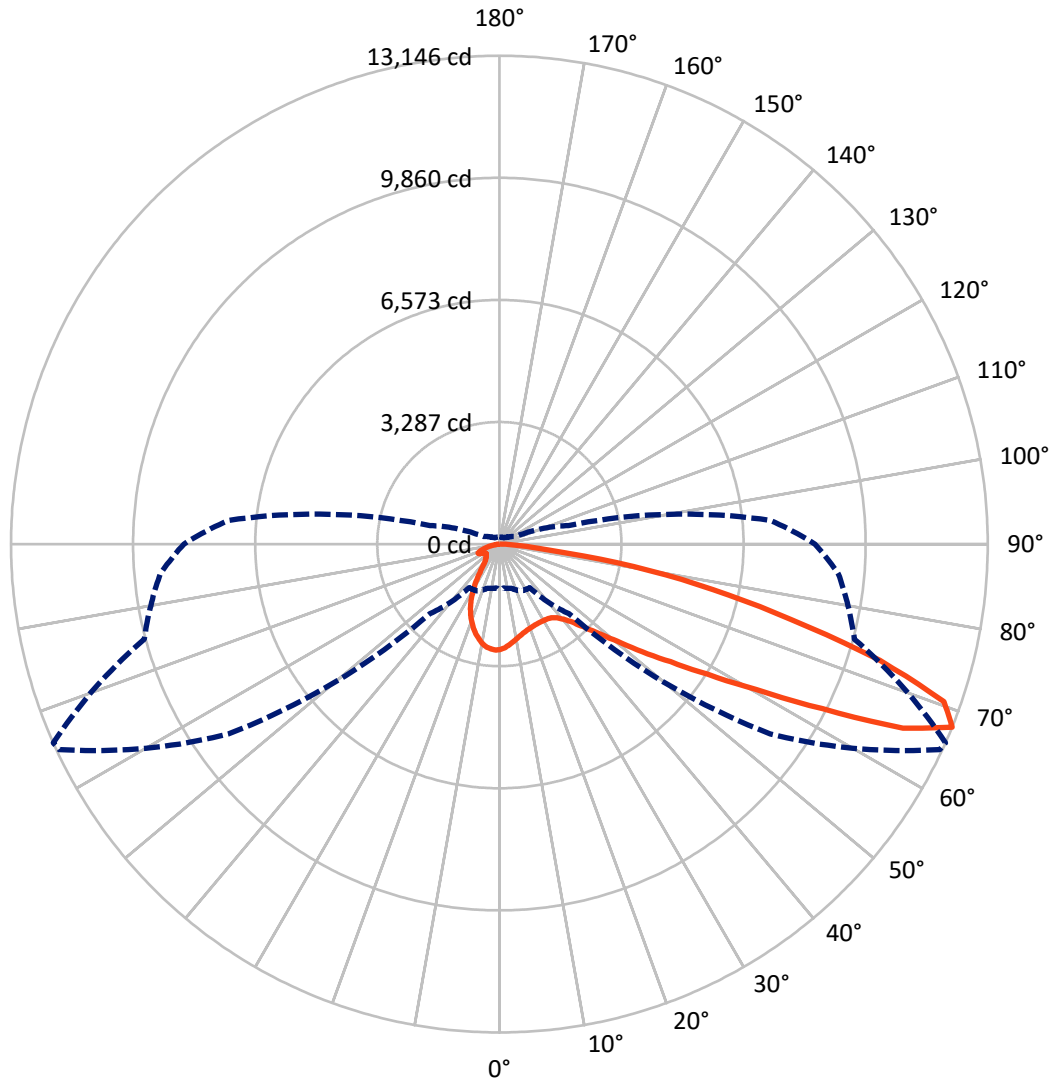
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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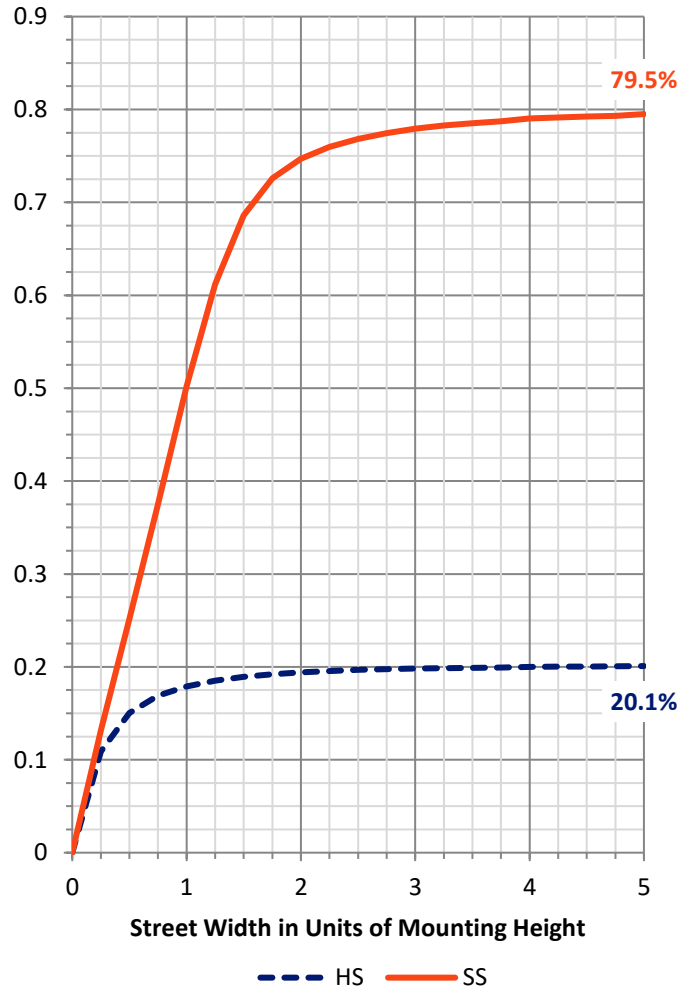
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2608.0	0.0	2608.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	10244.4	0.0	10244.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	12852.4	0.0	12852.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	1.9
10°-20°	612.6	4.8
20°-30°	842.0	6.6
30°-40°	1151.1	9.0
40°-50°	1744.2	13.6
50°-60°	2711.5	21.1
60°-70°	3301.2	25.7
70°-80°	2010.9	15.6
80°-90°	229.7	1.8
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°	12852.4	100.0
0°-180°	12852.4	100.0

Coefficient of Utilization



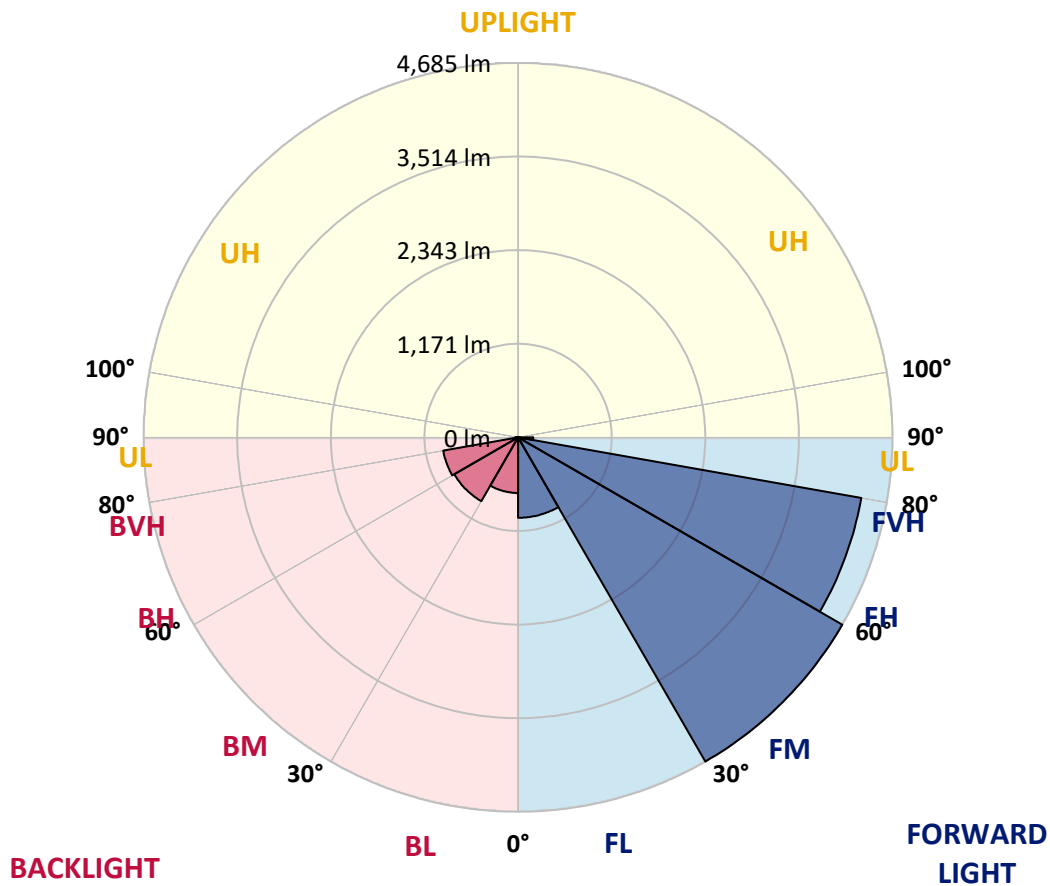
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.0	7.8			
FM (30°-60°)	4685.2	36.5			
FH (60°-80°)	4361.1	33.9			G2/5000
FVH (80°-90°)	191.0	1.5			G2/225
BL (0°-30°)	696.7	5.4	B2/1000		
BM (30°-60°)	921.7	7.2	B1/1000		
BH (60°-80°)	950.9	7.4	B2/1000		G2/1000
BVH (80°-90°)	38.7	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2840.0	2840.0	2840.0	2840.0	2840.0	2840.0	2840.0	2840.0	2840.0	2840.0	2840.0
2.5°	2660.0	2669.4	2663.7	2699.4	2701.2	2746.3	2771.6	2793.1	2795.0	2823.1	2841.9
5°	2478.1	2483.7	2483.7	2517.5	2540.0	2600.0	2658.1	2720.0	2724.7	2792.2	2843.8
7.5°	2330.9	2336.5	2332.8	2377.8	2406.8	2473.4	2547.5	2642.2	2651.6	2760.3	2850.3
10°	2215.6	2213.7	2223.1	2264.3	2301.8	2381.5	2464.0	2571.9	2585.9	2723.8	2857.8
12.5°	2136.8	2138.7	2144.3	2187.4	2227.8	2306.5	2391.8	2509.0	2524.0	2681.6	2854.1
15°	2099.3	2095.6	2100.2	2139.6	2178.1	2247.4	2335.6	2456.5	2471.5	2644.1	2855.0
17.5°	2090.9	2088.1	2087.1	2115.2	2144.3	2209.0	2293.4	2416.2	2432.2	2619.7	2860.6
20°	2117.1	2113.4	2103.1	2115.2	2127.4	2181.8	2263.4	2387.2	2405.0	2603.7	2871.9
22.5°	2189.3	2182.8	2166.8	2151.8	2135.9	2168.7	2244.6	2365.6	2383.4	2593.4	2883.1
25°	2299.0	2293.4	2276.5	2242.8	2184.6	2179.0	2240.9	2356.2	2374.0	2585.9	2887.8
27.5°	2450.0	2441.5	2424.7	2375.9	2281.2	2217.4	2254.9	2355.3	2372.1	2577.5	2883.1
30°	2629.1	2623.4	2614.1	2555.0	2428.4	2299.0	2286.8	2362.8	2375.9	2572.8	2873.8
32.5°	2810.9	2805.3	2812.8	2784.7	2629.1	2434.0	2356.2	2383.4	2392.8	2571.9	2865.3
35°	2971.3	2977.8	3032.2	3036.9	2884.1	2616.9	2465.9	2431.2	2433.1	2590.6	2869.1
37.5°	3139.1	3164.4	3235.7	3296.6	3169.1	2858.8	2629.1	2521.2	2519.4	2638.4	2892.5
40°	3361.3	3372.6	3463.5	3577.9	3498.2	3190.7	2860.6	2668.4	2655.3	2735.9	2955.3
42.5°	3577.9	3605.1	3750.4	3881.7	3855.4	3564.8	3152.2	2888.8	2865.3	2908.5	3084.7
45°	3853.6	3879.8	4043.0	4211.7	4259.6	3987.6	3525.4	3201.9	3178.5	3168.2	3321.9
47.5°	4129.2	4156.4	4302.7	4546.5	4714.3	4516.5	4011.1	3615.4	3577.0	3536.7	3680.1
50°	4314.9	4346.8	4486.5	4779.0	5172.8	5176.5	4586.8	4157.4	4108.6	4044.8	4184.5
52.5°	4308.3	4328.9	4462.1	4799.6	5502.8	5935.1	5357.5	4847.4	4808.1	4669.3	4791.2
55°	3969.8	4000.8	4134.9	4556.8	5538.5	6654.2	6490.1	5661.3	5591.0	5342.5	5476.6
57.5°	3290.1	3316.3	3451.3	3971.7	5222.5	7022.7	7928.4	6698.3	6601.7	6075.7	6230.4
60°	2483.7	2451.8	2515.6	2971.3	4466.8	7032.1	9197.9	8104.7	7943.4	6859.5	6988.9
62.5°	1864.0	1832.1	1846.2	1974.6	3028.5	6463.9	9921.8	10028.7	9762.4	7744.6	7719.3
65°	1473.0	1455.2	1495.5	1583.6	1765.5	4922.4	9927.4	12109.2	11941.4	8770.4	8468.5
67.5°	1200.1	1188.9	1230.1	1393.3	1431.7	2645.0	8901.7	13080.6	13146.2	9893.6	9163.2
70°	966.7	949.8	1014.5	1229.2	1331.4	1600.5	6376.7	12585.5	12691.5	10563.1	8967.3
72.5°	667.6	668.5	701.3	995.7	1285.5	1382.0	3607.0	10479.6	10709.4	9956.5	7883.4
75°	450.1	453.8	463.2	657.3	1184.2	1340.8	1922.1	7934.0	8096.2	8229.4	6516.4
77.5°	271.9	273.8	295.3	397.5	816.7	1251.7	1302.3	5751.3	5878.8	5425.0	4039.2
80°	157.5	164.1	183.8	266.3	551.3	940.4	1007.9	3526.3	3670.7	2411.5	1283.6
82.5°	69.4	74.1	100.3	154.7	321.6	799.8	786.7	1393.3	1372.7	672.3	445.4
85°	12.2	15.0	21.6	48.8	118.1	421.9	610.4	615.1	578.5	255.0	184.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.8	91.9	165.0	164.1	72.2	63.8
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°	2840.0	2840.0	2840.0	2840.0	2840.0	2840.0	2840.0	2840.0	2840.0	2840.0	2840.0
2.5°	2854.1	2828.8	2851.3	2854.1	2849.4	2845.6	2817.5	2793.1	2790.3	2764.1	2764.1
5°	2864.4	2841.0	2852.2	2830.6	2796.9	2762.2	2702.2	2660.9	2642.2	2608.4	2608.4
7.5°	2878.5	2854.1	2841.0	2787.5	2708.8	2632.8	2536.2	2455.6	2422.8	2375.0	2373.1
10°	2891.6	2860.6	2815.6	2711.6	2585.9	2465.0	2324.3	2209.9	2132.1	2074.9	2074.9
12.5°	2890.6	2850.3	2761.3	2607.5	2434.0	2258.7	2071.2	1898.7	1795.5	1706.4	1700.8
15°	2888.8	2833.5	2691.9	2486.5	2256.8	2014.0	1759.0	1533.9	1381.1	1293.9	1286.4
17.5°	2886.9	2811.9	2614.1	2348.7	2041.2	1710.2	1373.6	1129.8	1002.3	948.9	950.7
20°	2886.9	2787.5	2530.6	2190.3	1792.7	1346.4	1007.9	830.7	798.8	801.7	804.5
22.5°	2878.5	2757.5	2437.8	2017.7	1516.1	990.1	743.5	683.5	700.4	726.6	730.4
25°	2858.8	2707.8	2330.0	1826.5	1187.0	721.0	606.6	595.4	626.3	659.1	668.5
27.5°	2827.8	2650.6	2209.0	1602.4	873.9	579.4	533.5	532.6	556.9	581.3	589.8
30°	2795.0	2586.9	2081.5	1353.0	632.9	504.4	486.6	486.6	498.8	513.8	511.9
32.5°	2756.6	2522.2	1944.6	1093.3	515.7	462.2	456.6	453.8	455.7	461.3	461.3
35°	2723.8	2465.0	1804.0	818.5	462.2	438.8	433.2	426.6	423.8	420.0	421.9
37.5°	2711.6	2420.0	1658.6	616.9	436.0	421.9	412.5	403.2	396.6	394.7	393.8
40°	2731.3	2401.2	1513.3	508.2	417.2	404.1	393.8	381.6	376.0	376.0	376.0
42.5°	2808.1	2415.3	1365.2	459.4	404.1	389.1	374.1	362.9	361.0	362.9	363.8
45°	2948.8	2469.7	1211.4	435.1	392.9	374.1	356.3	347.9	347.9	349.7	349.7
47.5°	3200.1	2612.2	1059.5	420.0	381.6	361.9	343.2	334.7	333.8	335.7	335.7
50°	3635.1	2869.1	922.6	409.7	373.2	352.5	333.8	322.5	319.7	318.8	318.8
52.5°	4183.6	3314.4	835.4	402.2	362.9	342.2	323.5	308.5	302.8	300.0	300.0
55°	4846.5	3908.0	835.4	396.6	349.7	330.0	308.5	293.5	285.0	281.3	281.3
57.5°	5597.5	4599.0	979.8	391.9	339.4	316.0	292.5	277.5	268.2	262.5	262.5
60°	6361.7	5329.4	1337.0	385.4	330.0	298.2	274.7	260.7	248.5	241.9	241.0
62.5°	7154.0	6133.8	1807.7	389.1	323.5	281.3	256.0	240.0	229.7	223.2	222.2
65°	7879.7	6899.9	2219.3	418.2	324.4	266.3	234.4	220.3	211.9	203.5	202.5
67.5°	8495.7	7322.7	1930.5	477.2	344.1	248.5	212.8	198.8	191.3	185.6	184.7
70°	8064.4	6677.6	1095.1	513.8	371.3	229.7	188.5	179.1	171.6	167.8	166.9
72.5°	6896.1	5653.8	732.3	453.8	338.5	205.3	166.0	158.5	152.8	148.1	147.2
75°	5586.3	4483.6	559.8	372.2	263.5	166.9	142.5	136.9	131.3	126.6	125.6
77.5°	3305.1	2590.6	412.5	294.4	185.6	130.3	118.1	113.5	107.8	104.1	103.1
80°	1054.8	900.1	261.6	202.5	122.8	100.3	90.9	87.2	81.6	76.9	75.9
82.5°	402.2	347.9	138.8	103.1	81.6	68.4	60.9	57.2	53.4	48.8	47.8
85°	178.1	166.9	76.9	55.3	44.1	33.8	30.0	28.1	23.4	19.7	18.8
87.5°	62.8	62.8	32.8	15.9	9.4	4.7	2.8	0.9	0.0	0.0	0.0
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)