

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: P633317

Luminaire Tested: GWS-SA2E-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14564.4 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

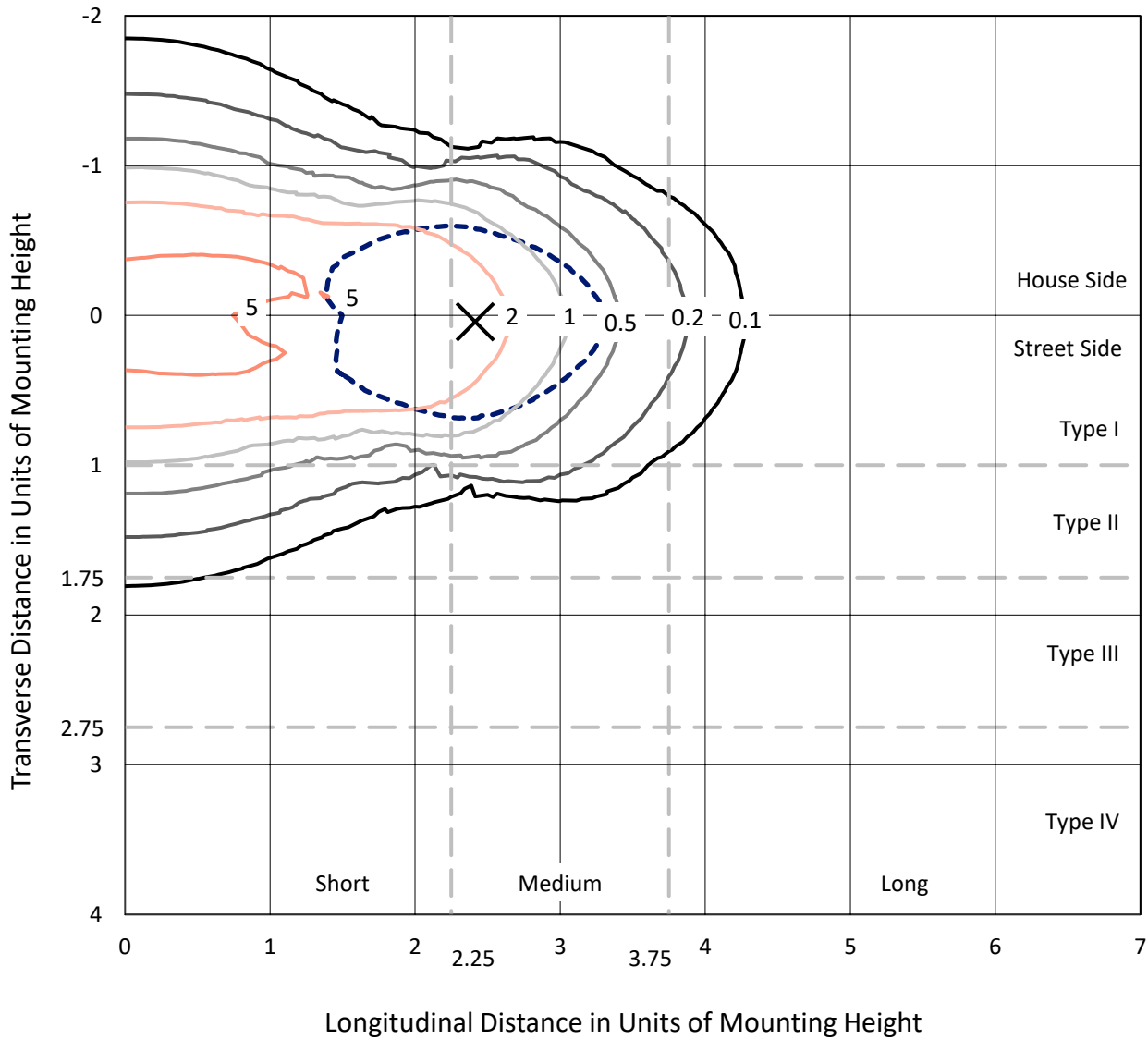
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

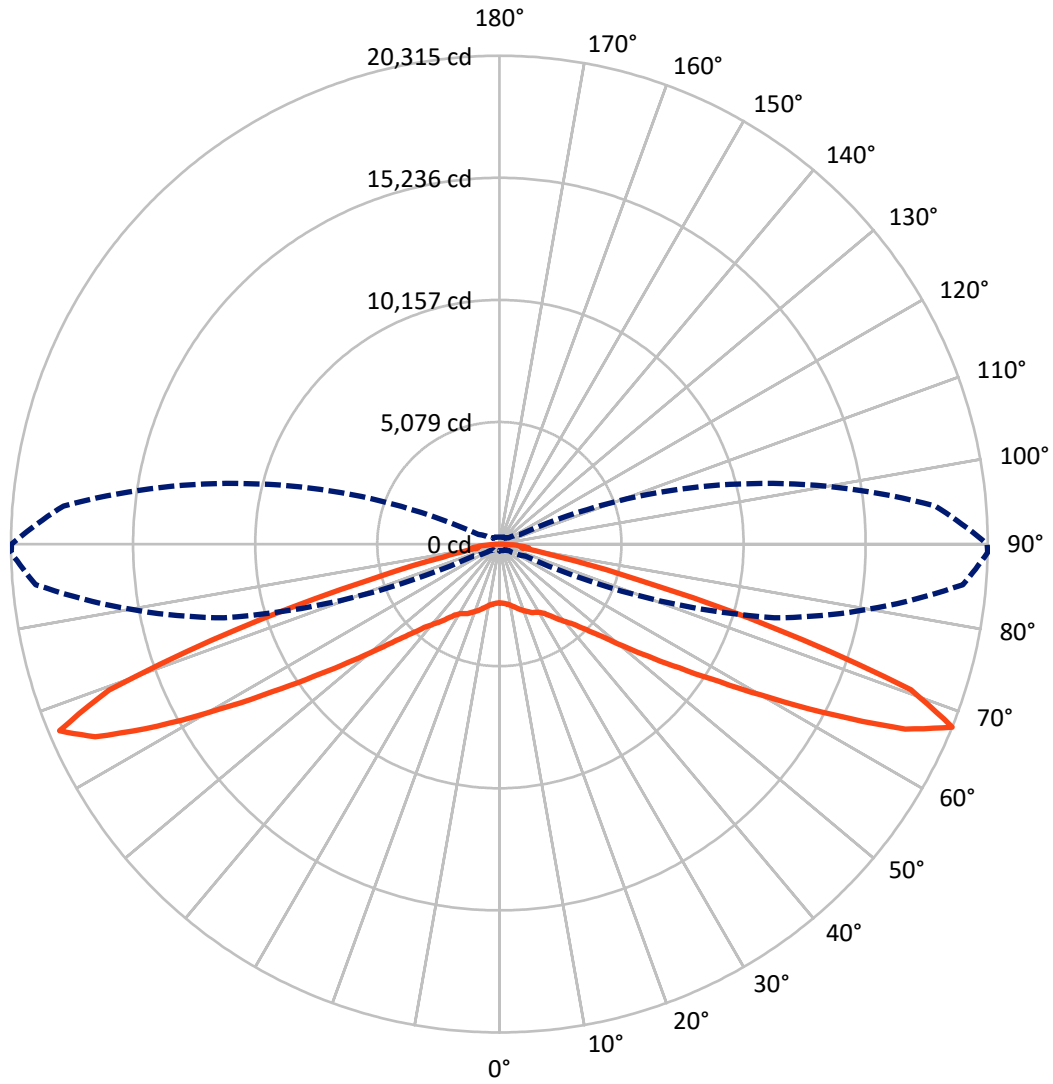
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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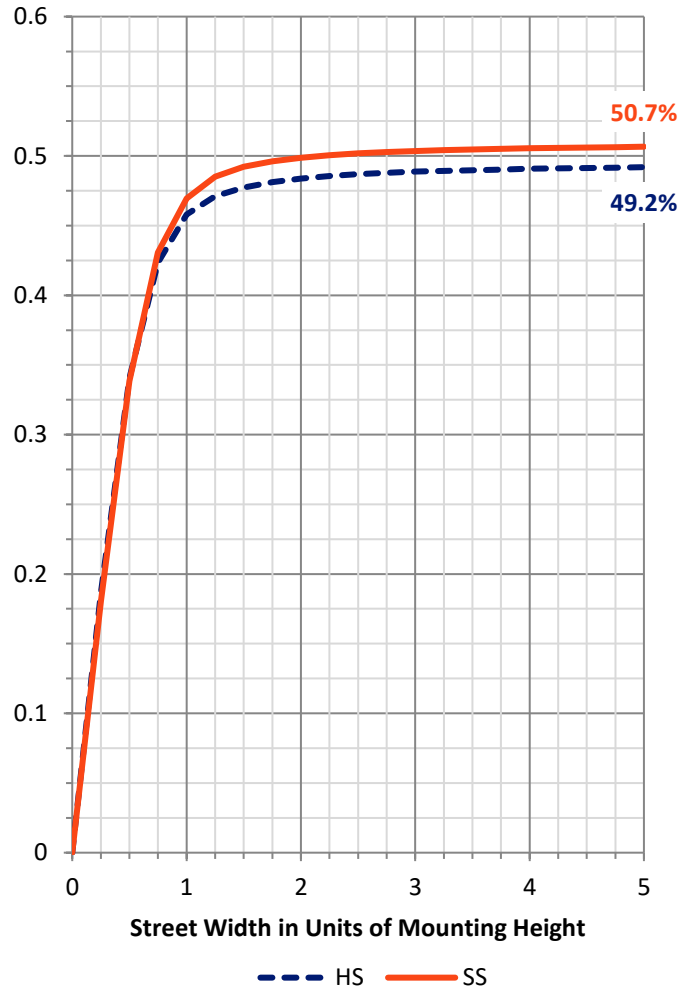
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7218.4	0.0	7218.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7346.0	0.0	7346.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	14564.4	0.0	14564.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.2	1.7
10°-20°	798.4	5.5
20°-30°	1349.7	9.3
30°-40°	1852.3	12.7
40°-50°	2362.1	16.2
50°-60°	2963.6	20.3
60°-70°	3574.3	24.5
70°-80°	1293.1	8.9
80°-90°	125.7	0.9
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°	14564.4	100.0
0°-180°	14564.4	100.0

Coefficient of Utilization



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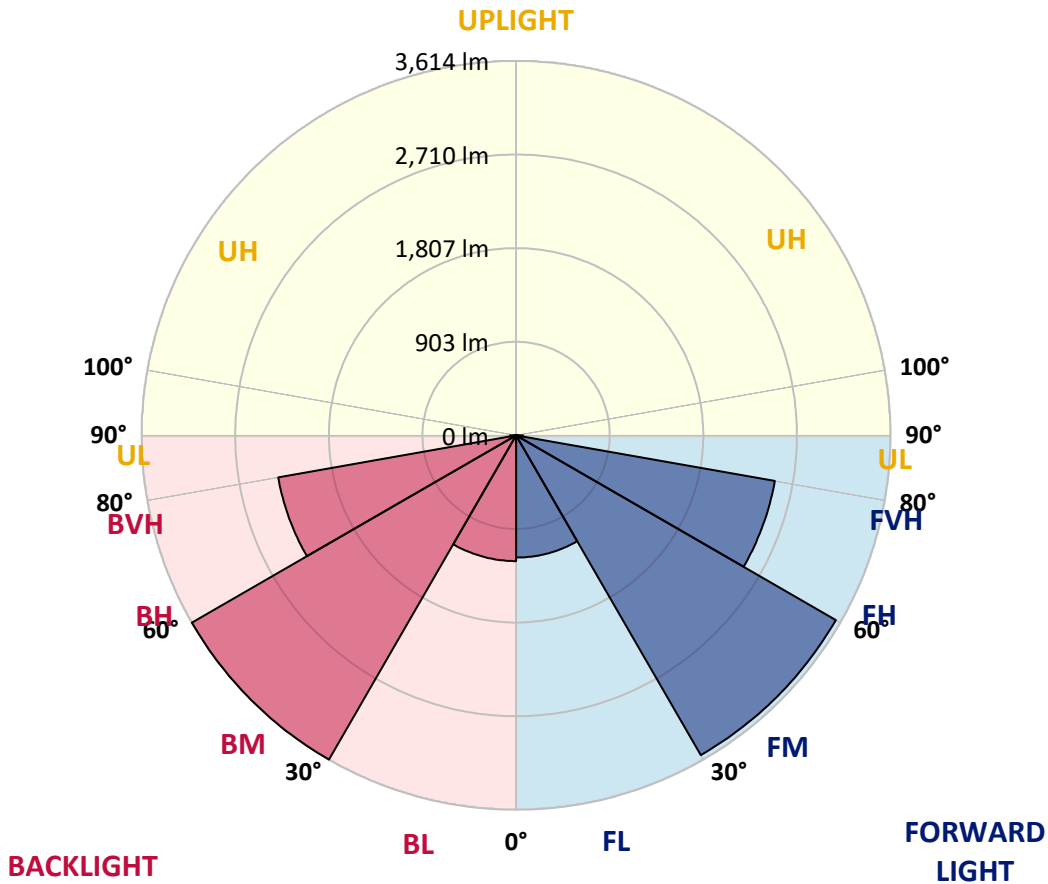
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1179.6	8.1			
FM (30°-60°)	3564.2	24.5			
FH (60°-80°)	2535.9	17.4			G2/5000
FVH (80°-90°)	66.3	0.5			G1/100
BL (0°-30°)	1213.7	8.3	B3/2500		
BM (30°-60°)	3613.7	24.8	B3/5000		
BH (60°-80°)	2331.5	16.0	B3/2500		G3/2500
BVH (80°-90°)	59.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2444.5	2444.5	2444.5	2444.5	2444.5	2444.5	2444.5	2444.5	2444.5	2444.5	2444.5
2.5°	2451.8	2449.7	2444.5	2460.2	2457.1	2458.1	2464.4	2460.2	2452.9	2440.3	2458.1
5°	2520.9	2519.8	2508.3	2517.7	2507.3	2500.0	2498.9	2488.4	2480.1	2466.5	2485.3
7.5°	2587.8	2586.8	2577.4	2594.1	2585.7	2577.4	2567.9	2547.0	2527.2	2507.3	2528.2
10°	2639.1	2638.0	2635.9	2660.0	2662.1	2665.2	2661.0	2625.5	2591.0	2566.9	2587.8
12.5°	2668.4	2671.5	2676.7	2720.7	2742.6	2763.5	2768.8	2739.5	2682.0	2647.4	2672.5
15°	2648.5	2654.8	2680.9	2760.4	2821.1	2868.1	2888.0	2864.0	2789.7	2732.2	2760.4
17.5°	2553.3	2558.5	2609.8	2731.1	2865.0	2973.8	3006.2	2991.6	2908.9	2838.9	2866.1
20°	2421.5	2433.0	2488.4	2657.9	2857.7	3047.0	3133.8	3128.6	3038.6	2930.9	2963.3
22.5°	2302.3	2315.9	2374.4	2561.7	2808.5	3065.8	3262.5	3276.1	3156.8	3023.0	3049.1
25°	2168.4	2180.9	2256.2	2447.7	2723.8	3051.2	3372.3	3434.0	3290.7	3128.6	3152.7
27.5°	2031.3	2040.8	2115.0	2319.0	2612.9	3024.0	3459.1	3607.7	3422.5	3201.8	3218.6
30°	1911.1	1923.6	1991.6	2190.3	2491.6	2969.6	3530.3	3792.8	3574.2	3284.5	3298.1
32.5°	1794.9	1805.4	1879.7	2063.8	2362.9	2885.9	3594.1	4010.4	3799.1	3438.2	3438.2
35°	1648.5	1667.3	1751.0	1942.4	2241.6	2775.1	3640.1	4263.5	4106.6	3665.2	3666.3
37.5°	1513.6	1524.0	1611.9	1805.4	2114.0	2649.5	3644.3	4526.1	4495.7	3953.9	3956.0
40°	1359.8	1373.4	1467.5	1659.0	1967.5	2517.7	3604.5	4770.8	4903.7	4251.0	4239.5
42.5°	1204.0	1223.8	1313.8	1501.0	1809.6	2356.7	3498.9	5004.1	5421.5	4595.1	4566.9
45°	1053.3	1065.9	1155.8	1332.6	1628.6	2164.2	3329.4	5227.9	6036.5	5118.1	5077.3
47.5°	883.9	889.1	982.2	1151.7	1441.4	1949.8	3086.8	5427.7	6712.2	5810.6	5740.5
50°	733.3	740.6	813.8	959.2	1212.3	1695.6	2784.5	5544.9	7573.1	6755.1	6633.8
52.5°	593.1	600.4	659.0	775.1	1002.1	1405.8	2410.0	5517.7	8446.5	7927.7	7750.9
55°	479.1	484.3	524.0	615.1	788.7	1118.2	1967.5	5274.0	9416.2	9459.0	9078.3
57.5°	404.8	406.9	434.1	489.5	616.1	861.9	1518.8	4698.7	10432.9	11413.0	10787.5
60°	361.9	363.0	375.5	410.0	486.4	657.9	1113.0	3782.4	11486.2	13857.5	12999.8
62.5°	334.7	334.7	345.2	365.1	403.8	506.3	818.0	2716.5	12242.5	16517.5	15665.0
65°	308.6	308.6	315.9	332.6	353.6	413.2	614.0	1752.1	12613.8	18741.3	18552.0
67.5°	275.1	276.1	281.4	299.2	318.0	345.2	465.5	1185.1	11842.9	19356.4	20314.5
70°	243.7	244.8	252.1	263.6	279.3	298.1	364.0	816.9	8620.1	16121.1	18163.9
72.5°	209.2	213.4	218.6	231.2	240.6	254.2	297.1	529.3	5015.6	10370.1	12007.1
75°	171.5	176.8	183.1	195.6	201.9	207.1	244.8	377.6	2413.1	5255.1	5984.2
77.5°	132.8	138.1	145.4	156.9	161.1	167.4	187.2	273.0	1155.8	2329.5	2511.5
80°	88.9	91.0	97.3	110.9	118.2	122.4	138.1	186.2	502.1	935.1	926.8
82.5°	54.4	55.4	57.5	65.9	69.0	73.2	90.0	114.0	239.5	1062.7	1218.6
85°	19.9	18.8	17.8	23.0	27.2	31.4	41.8	57.5	104.6	730.1	816.9
87.5°	0.0	0.0	0.0	1.0	2.1	2.1	4.2	8.4	25.1	273.0	187.2
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°	2444.5	2444.5	2444.5	2444.5	2444.5	2444.5	2444.5	2444.5	2444.5	2444.5	2444.5
2.5°	2452.9	2441.4	2456.0	2466.5	2489.5	2497.9	2500.0	2492.6	2492.6	2480.1	2482.2
5°	2481.1	2473.8	2497.9	2515.6	2549.1	2561.7	2570.0	2564.8	2567.9	2559.6	2561.7
7.5°	2524.0	2517.7	2559.6	2594.1	2628.6	2643.3	2650.6	2646.4	2647.4	2637.0	2640.1
10°	2583.6	2585.7	2635.9	2680.9	2726.9	2741.6	2744.7	2732.2	2721.7	2702.9	2703.9
12.5°	2665.2	2675.7	2746.8	2797.0	2844.1	2865.0	2842.0	2796.0	2753.1	2720.7	2716.5
15°	2754.1	2773.0	2875.5	2939.3	2990.5	2980.1	2912.1	2808.5	2723.8	2675.7	2666.3
17.5°	2860.8	2889.1	3017.7	3094.1	3138.0	3071.1	2928.8	2774.0	2655.8	2591.0	2578.4
20°	2961.2	3006.2	3168.4	3267.7	3273.0	3122.3	2921.5	2703.9	2555.4	2475.9	2459.2
22.5°	3053.3	3110.8	3326.3	3452.9	3384.9	3145.3	2876.5	2604.6	2434.1	2341.0	2326.3
25°	3153.7	3235.3	3510.4	3628.6	3496.8	3135.9	2782.4	2481.1	2287.6	2192.4	2182.0
27.5°	3222.7	3325.3	3695.5	3808.5	3588.8	3082.6	2661.0	2346.2	2153.7	2063.8	2049.1
30°	3302.2	3433.0	3899.5	4004.1	3645.3	3004.1	2531.3	2220.7	2029.3	1932.0	1921.5
32.5°	3446.6	3610.8	4152.6	4211.2	3663.1	2906.9	2406.9	2099.3	1899.5	1802.3	1787.6
35°	3678.8	3871.3	4508.3	4442.4	3649.5	2800.2	2288.7	1957.1	1766.7	1675.7	1661.1
37.5°	3971.7	4211.2	4904.7	4650.5	3611.9	2683.0	2148.5	1837.8	1647.5	1555.4	1547.0
40°	4244.7	4539.7	5349.3	4830.5	3535.5	2538.7	2013.6	1713.4	1518.8	1421.5	1402.7
42.5°	4586.7	4979.0	5863.9	4986.3	3410.0	2366.1	1861.9	1559.6	1357.7	1269.9	1246.8
45°	5106.6	5594.0	6462.2	5135.9	3222.7	2153.7	1671.5	1372.4	1180.9	1091.0	1073.2
47.5°	5755.1	6362.9	7110.8	5224.8	2938.2	1929.9	1456.0	1174.7	983.2	881.8	873.4
50°	6666.2	7481.0	7806.3	5209.1	2620.2	1664.2	1213.4	939.3	779.3	706.1	694.5
52.5°	7776.0	8884.8	8558.4	5020.8	2282.4	1361.9	945.6	737.4	618.2	565.9	556.5
55°	9168.2	10565.7	9350.3	4617.1	1855.6	1042.9	742.7	581.6	500.0	468.6	464.4
57.5°	10892.1	12742.5	10112.8	3937.2	1395.4	796.0	572.2	480.1	441.4	422.6	421.5
60°	13167.1	15053.1	10774.9	3059.6	998.9	608.8	472.8	428.9	398.5	386.0	384.9
62.5°	15872.1	17151.4	11187.0	2083.6	751.0	485.3	416.3	389.1	371.3	364.0	363.0
65°	18652.4	18477.7	10990.4	1365.0	570.1	412.1	373.4	358.8	343.1	335.8	335.8
67.5°	20294.6	18197.4	9481.0	947.7	451.9	361.9	336.8	323.2	297.1	290.8	290.8
70°	17975.6	14745.6	6214.3	693.5	366.1	316.9	292.9	274.1	263.6	257.3	256.3
72.5°	11888.9	9595.0	3304.3	481.2	305.4	269.9	247.9	240.6	228.0	221.8	220.7
75°	5917.3	5039.7	1693.5	347.3	254.2	216.5	207.1	204.0	193.5	185.1	183.1
77.5°	2466.5	2243.7	789.7	252.1	193.5	174.7	166.3	166.3	154.8	145.4	141.2
80°	929.9	828.4	373.4	172.6	143.3	129.7	124.5	120.3	110.9	99.4	93.1
82.5°	1243.7	812.7	183.1	107.7	94.1	83.7	76.4	73.2	68.0	62.8	58.6
85°	805.4	577.4	82.6	55.4	47.1	35.6	31.4	29.3	26.2	23.0	20.9
87.5°	164.2	193.5	25.1	10.5	6.3	3.1	3.1	1.0	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)