

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: P640313

Luminaire Tested: GWS-SA5D-750-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-750-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22559.9 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

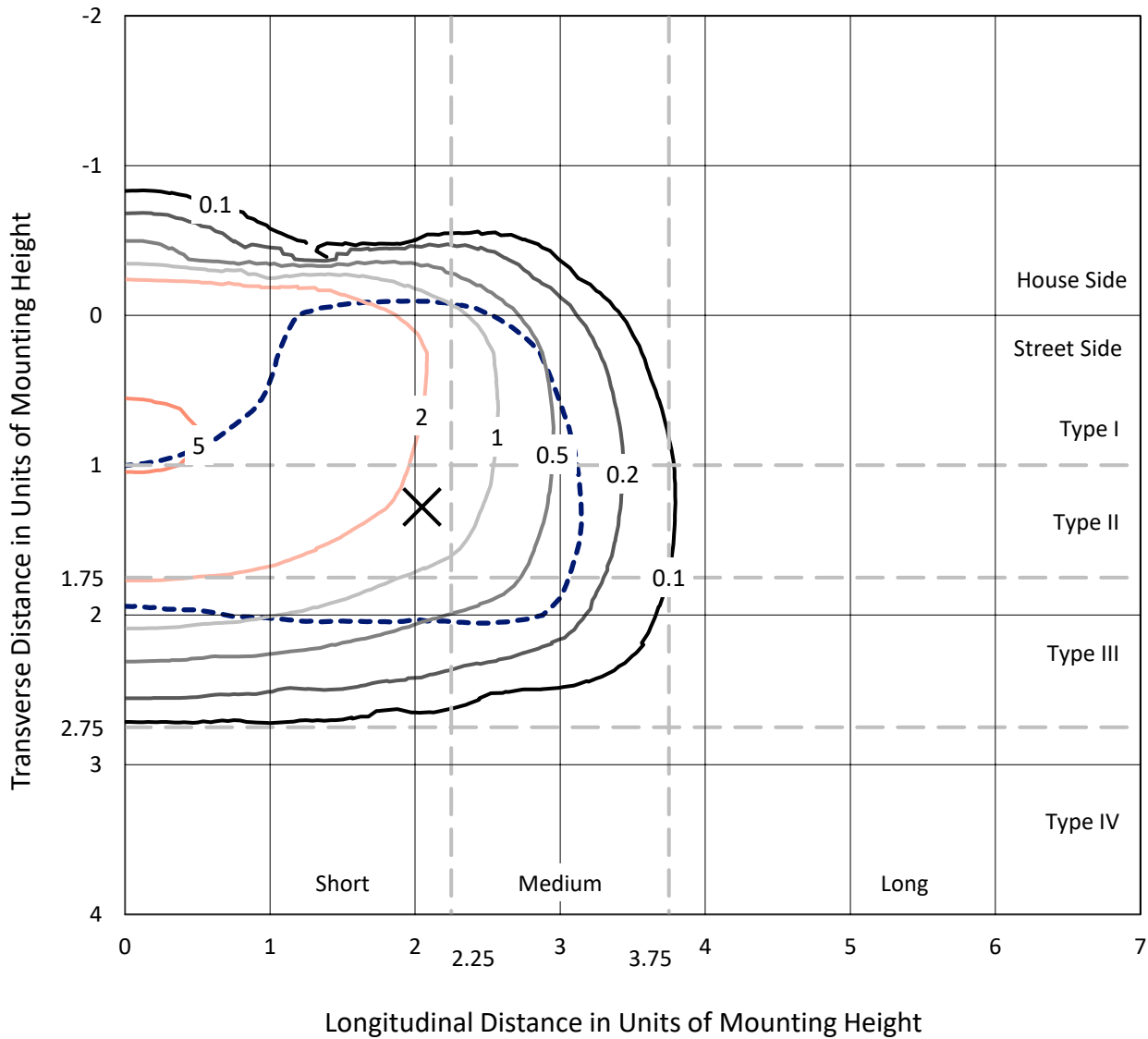
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

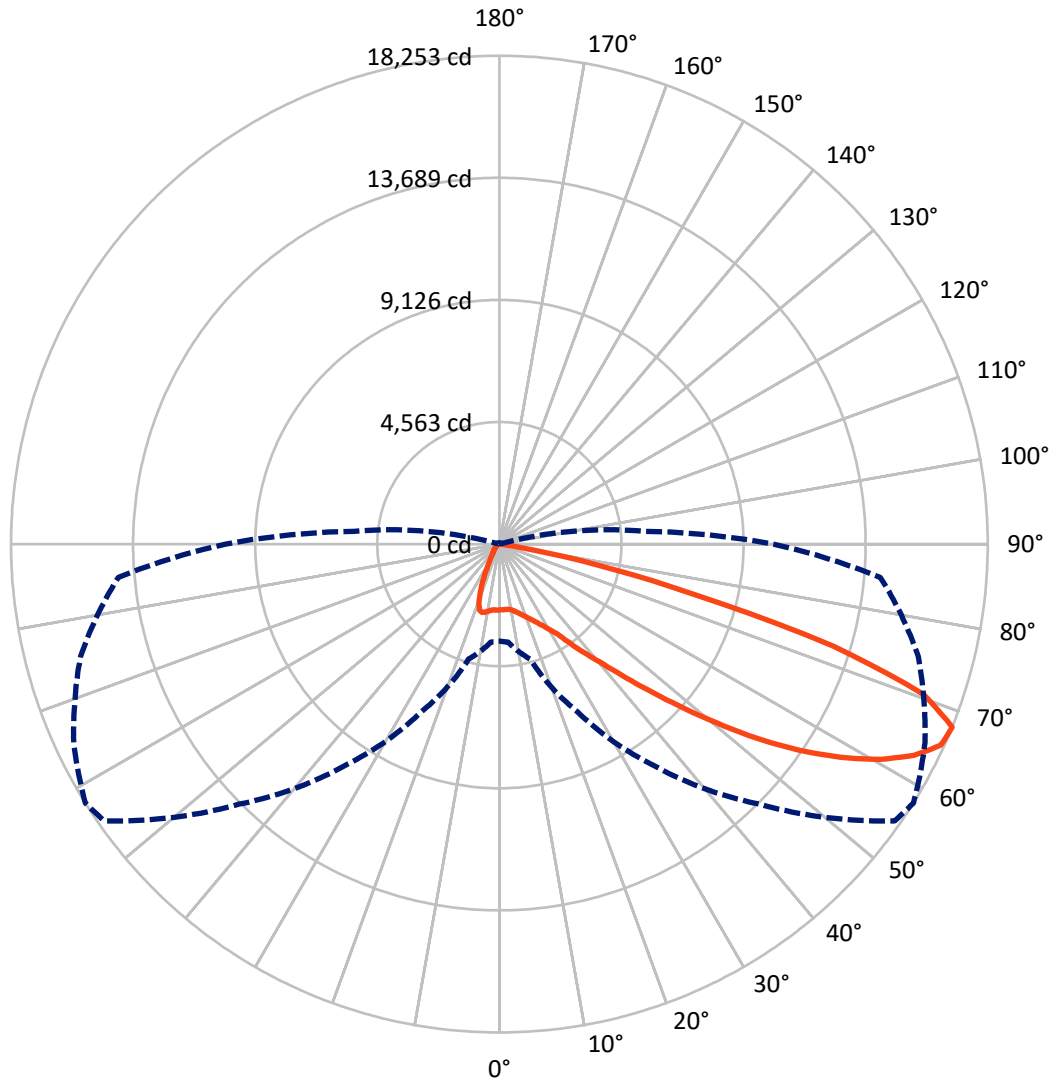
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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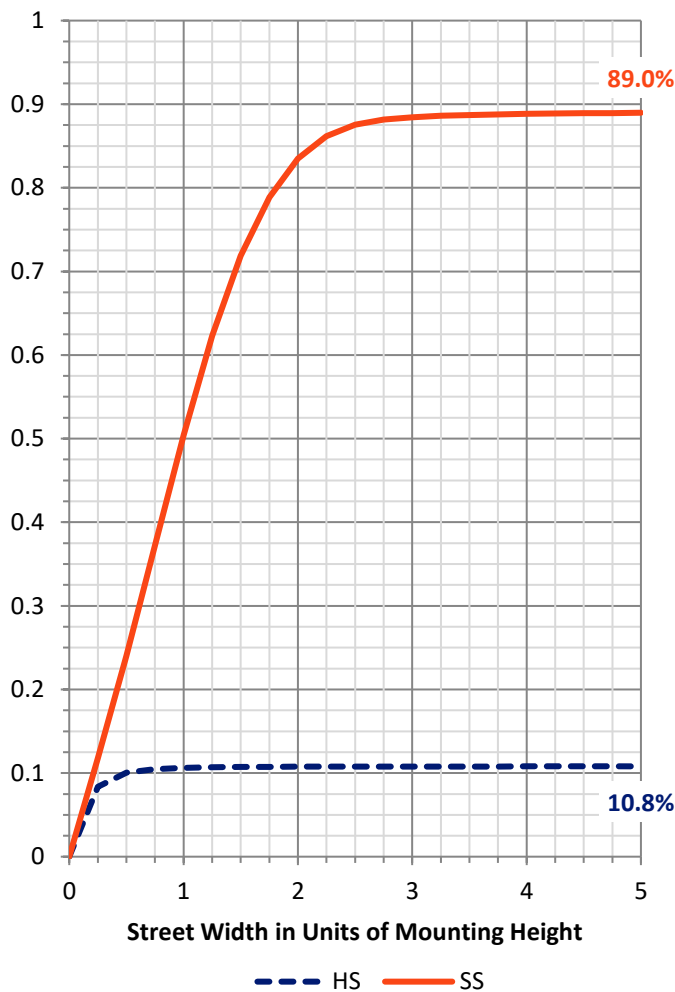
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2461.2	0.0	2461.2
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	20098.7	0.0	20098.7
	% Fixture	89.1	0.0	89.1
Total	Lumens	22559.9	0.0	22559.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	1.0
10°-20°	648.4	2.9
20°-30°	1131.8	5.0
30°-40°	2021.2	9.0
40°-50°	3694.4	16.4
50°-60°	6144.2	27.2
60°-70°	6673.7	29.6
70°-80°	1959.4	8.7
80°-90°	55.8	0.2
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°	22559.9	100.0
0°-180°	22559.9	100.0

Coefficient of Utilization

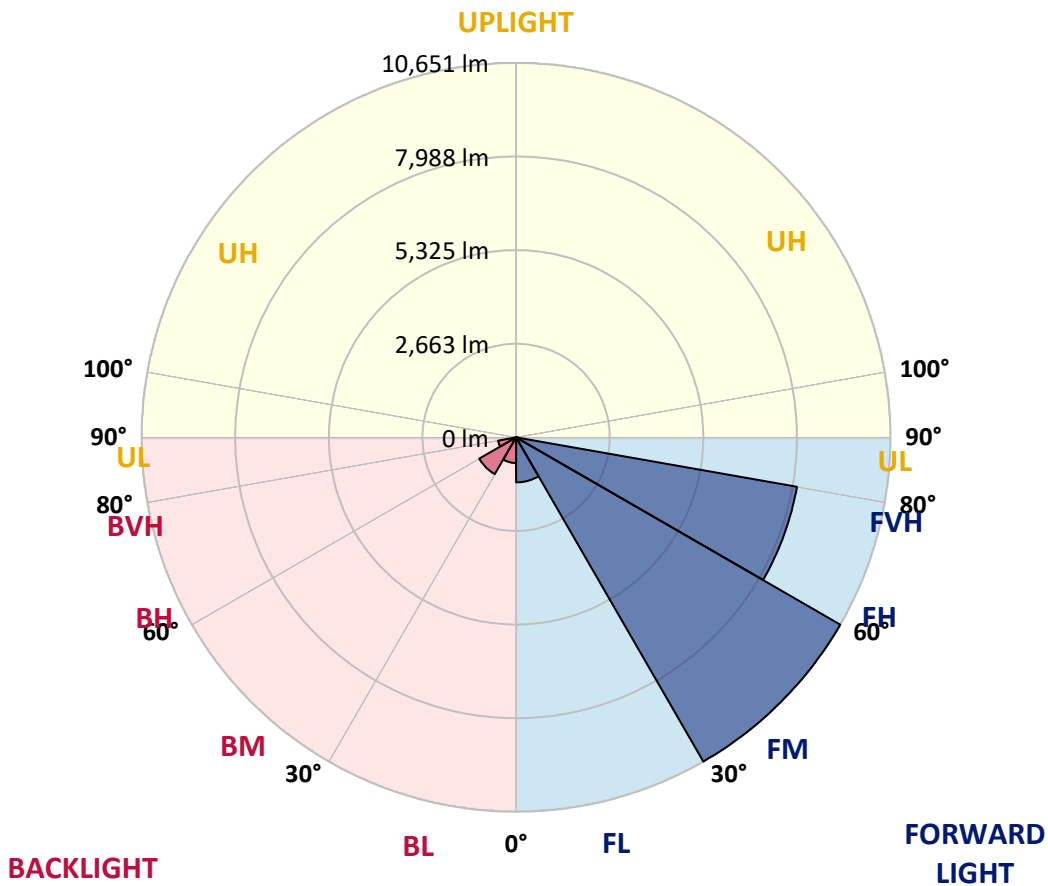


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.0	5.7			
FM (30°-60°)	10651.0	47.2			
FH (60°-80°)	8113.6	36.0			G4/12000
FVH (80°-90°)	53.1	0.2			G1/100
BL (0°-30°)	730.1	3.2	B2/1000		
BM (30°-60°)	1208.9	5.4	B2/2500		
BH (60°-80°)	519.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2412.1	2407.7	2407.7	2425.3	2427.5	2436.3	2456.2	2458.4	2469.4	2465.0	2449.5
5°	2286.5	2288.7	2302.0	2332.8	2359.2	2392.3	2440.7	2451.7	2476.0	2489.2	2480.4
7.5°	2169.8	2172.0	2191.8	2240.3	2290.9	2357.0	2436.3	2458.4	2506.8	2542.1	2544.3
10°	2125.7	2123.5	2143.4	2198.4	2264.5	2357.0	2471.6	2500.2	2572.9	2634.6	2645.6
12.5°	2138.9	2136.7	2156.6	2207.2	2279.9	2396.7	2533.3	2572.9	2665.4	2760.1	2780.0
15°	2191.8	2189.6	2202.8	2244.7	2324.0	2445.1	2612.6	2672.0	2788.8	2903.3	2934.2
17.5°	2350.4	2339.4	2326.2	2330.6	2376.9	2502.4	2713.9	2786.6	2932.0	3068.5	3095.0
20°	2632.4	2603.7	2568.5	2522.2	2500.2	2586.1	2830.6	2914.3	3090.6	3247.0	3251.4
22.5°	3057.5	3046.5	2965.0	2830.6	2735.9	2738.1	2967.2	3064.1	3280.0	3451.8	3427.6
25°	3650.1	3643.5	3517.9	3297.6	3050.9	2967.2	3141.2	3240.4	3504.7	3687.5	3610.4
27.5°	4385.8	4339.6	4192.0	3894.6	3526.7	3264.6	3361.5	3449.6	3742.6	3914.4	3769.0
30°	5026.9	5029.1	4890.3	4579.7	4165.5	3711.8	3630.3	3707.4	3960.7	4141.3	3965.1
32.5°	5643.6	5663.5	5511.5	5231.7	4777.9	4295.5	4015.8	4029.0	4240.4	4436.5	4222.8
35°	6216.4	6231.8	6126.1	5888.2	5465.2	4905.7	4553.2	4546.6	4661.2	4861.6	4581.9
37.5°	6857.4	6872.8	6769.3	6555.6	6159.1	5604.0	5163.4	5154.6	5200.9	5363.9	5044.5
40°	7540.3	7568.9	7454.4	7273.7	6894.8	6425.6	5872.7	5793.4	5747.2	5938.8	5643.6
42.5°	8232.0	8276.0	8236.4	8055.7	7731.9	7344.2	6793.5	6670.2	6571.0	6811.1	6498.3
45°	9091.1	9143.9	9126.3	8987.5	8736.4	8421.4	7901.5	7758.4	7712.1	7934.6	7562.3
47.5°	9917.1	9974.4	10038.3	10007.4	9829.0	9683.6	9106.5	9025.0	9011.8	9249.7	8672.5
50°	10531.7	10584.6	10829.1	11005.3	11126.5	11095.6	10595.6	10474.4	10454.6	10606.6	9844.4
52.5°	10972.3	11022.9	11360.0	11910.7	12355.7	12598.0	12093.5	12067.1	11959.1	11906.3	10941.4
55°	11313.7	11384.2	11738.9	12571.5	13468.1	14005.6	13690.6	13595.8	13318.3	13014.3	11959.1
57.5°	11382.0	11410.6	11910.7	13034.1	14331.6	15201.7	15201.7	15036.5	14501.2	14080.5	13135.5
60°	10769.6	10857.7	11534.0	12996.7	14701.7	15983.7	16455.1	16340.6	15618.0	15100.4	14267.7
62.5°	9410.5	9509.6	10333.5	12100.1	14331.6	16144.5	17404.5	17386.9	16571.9	15944.1	15206.1
65°	7216.5	7289.2	8007.3	10122.0	12767.6	15525.5	18083.0	18131.5	17325.2	16501.4	15529.9
67.5°	3625.9	3676.5	4451.9	6914.7	10119.8	13743.4	18036.7	18252.6	17554.3	16206.2	14294.1
70°	1266.6	1317.3	1683.0	2967.2	6159.1	10494.3	16477.1	16829.6	16208.4	13833.8	10544.9
72.5°	434.0	458.2	698.3	1101.4	2396.7	6220.8	12529.7	13060.6	11948.1	9287.1	6060.0
75°	246.7	262.1	374.5	597.0	1004.5	2046.4	7108.5	7434.5	6965.3	5062.1	2493.6
77.5°	167.4	180.6	233.5	339.2	555.1	658.6	2898.9	3650.1	3183.1	1652.1	636.6
80°	99.1	107.9	143.2	200.5	284.2	255.5	621.2	826.1	1064.0	493.4	191.6
82.5°	46.3	52.9	92.5	132.2	143.2	107.9	182.8	222.5	299.6	242.3	79.3
85°	0.0	0.0	30.8	55.1	52.9	30.8	50.7	55.1	81.5	121.2	30.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.6	13.2	24.2	13.2
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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2467.2	2451.7	2469.4	2460.6	2469.4	2467.2	2449.5	2438.5	2438.5	2418.7	2412.1
5°	2498.0	2482.6	2487.0	2467.2	2462.8	2451.7	2429.7	2420.9	2420.9	2401.1	2394.5
7.5°	2566.3	2542.1	2537.7	2498.0	2480.4	2449.5	2409.9	2394.5	2392.3	2372.4	2365.8
10°	2674.2	2645.6	2625.8	2575.1	2524.4	2462.8	2379.1	2308.6	2268.9	2216.0	2211.6
12.5°	2806.4	2771.2	2740.3	2663.2	2579.5	2440.7	2194.0	1936.3	1777.7	1652.1	1660.9
15°	2954.0	2920.9	2872.5	2755.7	2583.9	2222.7	1707.2	1310.7	1116.8	1013.3	1008.9
17.5°	3114.8	3066.3	2987.0	2828.4	2445.1	1698.4	1110.2	784.2	682.9	647.6	638.8
20°	3264.6	3205.1	3106.0	2843.8	2044.2	1149.9	693.9	608.0	590.4	579.3	579.3
22.5°	3423.2	3348.3	3200.7	2724.9	1520.0	735.7	590.4	570.5	557.3	541.9	539.7
25°	3584.0	3487.1	3286.6	2414.3	995.7	579.3	552.9	530.9	506.7	482.4	475.8
27.5°	3720.6	3595.0	3352.7	1951.7	638.8	522.1	504.4	467.0	434.0	407.5	403.1
30°	3883.6	3722.8	3381.3	1427.4	502.2	460.4	434.0	394.3	354.7	328.2	319.4
32.5°	4101.7	3925.4	3337.3	929.6	445.0	405.3	363.5	317.2	277.6	248.9	244.5
35°	4440.9	4231.6	3134.6	592.6	403.1	350.2	299.6	251.1	218.1	196.1	191.6
37.5°	4855.0	4661.2	2802.0	445.0	361.3	304.0	244.5	198.3	174.0	158.6	154.2
40°	5469.6	5198.7	2390.1	389.9	319.4	257.7	200.5	163.0	145.4	132.2	127.8
42.5°	6267.0	5833.1	1916.5	354.7	279.8	215.9	163.0	134.4	119.0	110.1	107.9
45°	7198.8	6452.1	1416.4	319.4	242.3	178.4	134.4	110.1	99.1	92.5	90.3
47.5°	8152.7	6994.0	978.1	282.0	207.1	147.6	112.3	94.7	85.9	77.1	74.9
50°	9170.4	7452.2	667.5	244.5	176.2	121.2	96.9	85.9	74.9	68.3	66.1
52.5°	9917.1	7621.8	464.8	211.5	149.8	103.5	85.9	77.1	68.3	59.5	57.3
55°	10606.6	7617.4	352.5	178.4	127.8	90.3	77.1	68.3	59.5	52.9	50.7
57.5°	11293.9	7557.9	277.6	152.0	110.1	81.5	68.3	59.5	55.1	46.3	44.1
60°	11738.9	7333.2	215.9	127.8	94.7	70.5	59.5	52.9	46.3	39.7	37.4
62.5°	11974.6	7020.4	165.2	101.3	77.1	61.7	52.9	46.3	39.7	33.0	30.8
65°	11655.2	6465.3	130.0	79.3	59.5	52.9	44.1	37.4	30.8	24.2	22.0
67.5°	10238.7	5452.0	101.3	63.9	46.3	39.7	37.4	30.8	22.0	17.6	15.4
70°	7236.3	3733.8	79.3	48.5	35.2	30.8	28.6	24.2	17.6	13.2	11.0
72.5°	3971.7	1883.4	57.3	35.2	26.4	24.2	22.0	19.8	15.4	11.0	11.0
75°	1528.8	517.7	41.9	24.2	17.6	17.6	15.4	15.4	13.2	8.8	8.8
77.5°	398.7	154.2	26.4	15.4	11.0	11.0	11.0	8.8	8.8	6.6	6.6
80°	127.8	50.7	15.4	11.0	8.8	6.6	6.6	4.4	6.6	4.4	4.4
82.5°	41.9	17.6	8.8	8.8	6.6	4.4	4.4	2.2	2.2	0.0	0.0
85°	15.4	8.8	6.6	4.4	4.4	4.4	2.2	0.0	0.0	0.0	0.0
87.5°	8.8	4.4	4.4	4.4	4.4	2.2	0.0	0.0	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)