

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: P640368

Luminaire Tested: GWS-SA5D-760-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640368
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22250.7 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

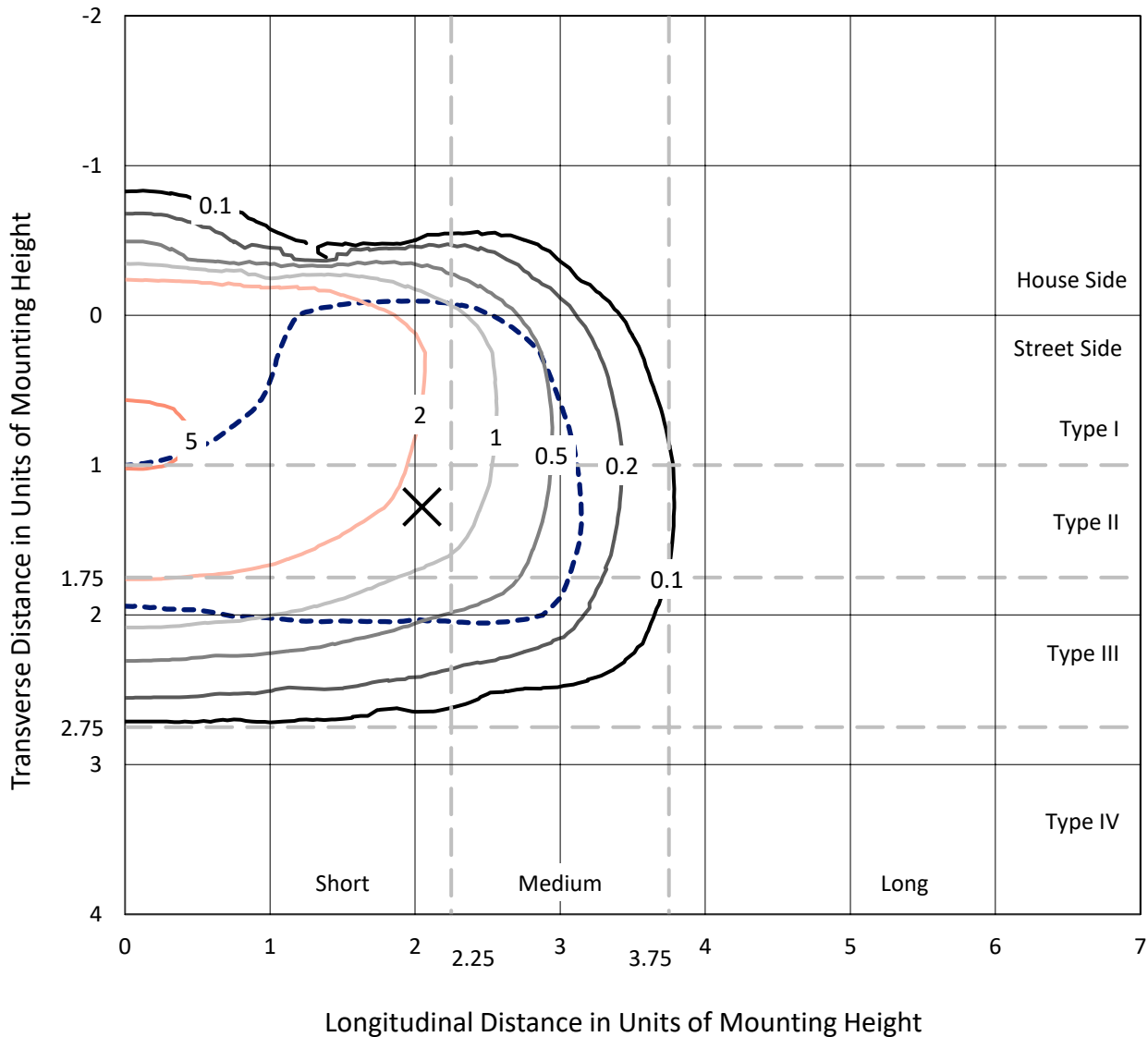
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

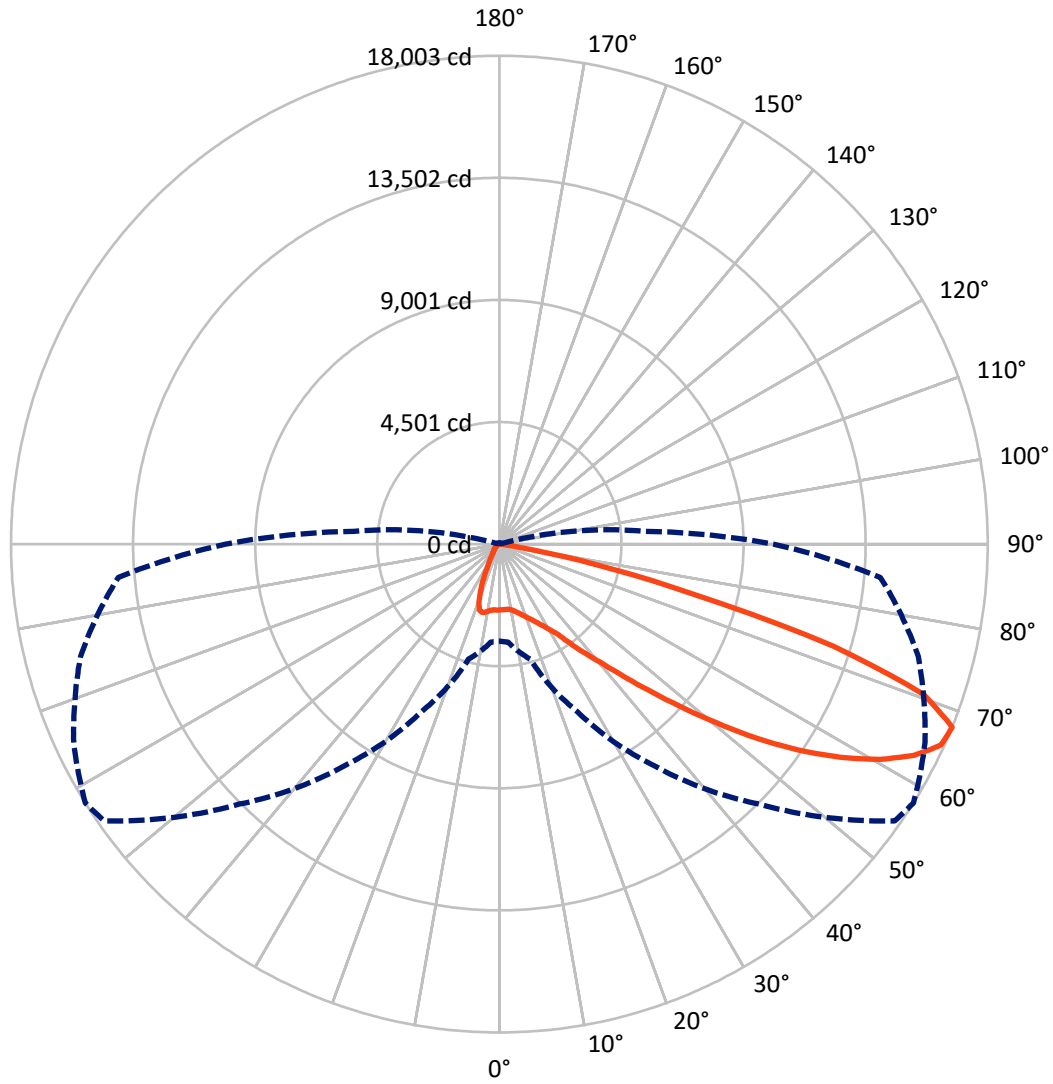
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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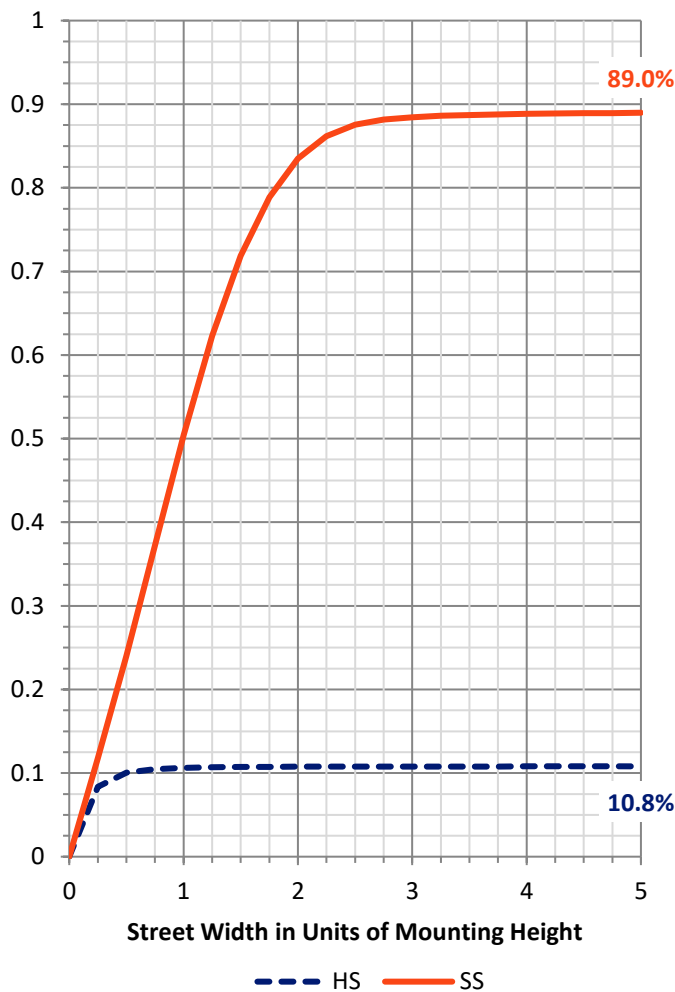
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2427.5	0.0	2427.5
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	19823.2	0.0	19823.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	22250.7	0.0	22250.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.8	1.0
10°-20°	639.5	2.9
20°-30°	1116.3	5.0
30°-40°	1993.5	9.0
40°-50°	3643.8	16.4
50°-60°	6060.0	27.2
60°-70°	6582.2	29.6
70°-80°	1932.6	8.7
80°-90°	55.0	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°	22250.7	100.0
0°-180°	22250.7	100.0

Coefficient of Utilization



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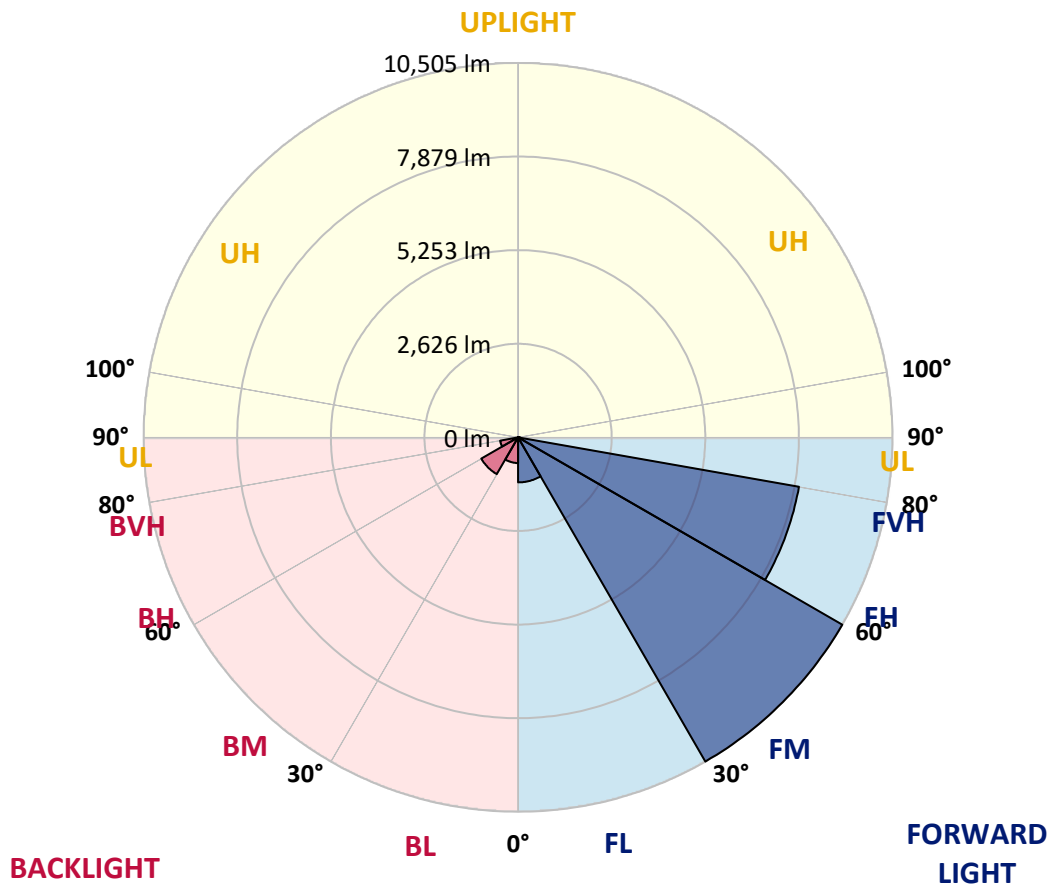
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1263.5	5.7			
FM (30°-60°)	10505.0	47.2			
FH (60°-80°)	8002.4	36.0			G4/12000
FVH (80°-90°)	52.3	0.2			G1/100
BL (0°-30°)	720.1	3.2	B2/1000		
BM (30°-60°)	1192.3	5.4	B2/2500		
BH (60°-80°)	512.4	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°	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7
2.5°	2379.0	2374.7	2374.7	2392.1	2394.2	2402.9	2422.5	2424.7	2435.5	2431.2	2416.0
5°	2255.2	2257.4	2270.4	2300.8	2326.9	2359.5	2407.3	2418.1	2442.0	2455.1	2446.4
7.5°	2140.0	2142.2	2161.8	2209.6	2259.5	2324.7	2402.9	2424.7	2472.5	2507.2	2509.4
10°	2096.6	2094.4	2114.0	2168.3	2233.5	2324.7	2437.7	2465.9	2537.6	2598.5	2609.3
12.5°	2109.6	2107.5	2127.0	2177.0	2248.7	2363.8	2498.5	2537.6	2628.9	2722.3	2741.9
15°	2161.8	2159.6	2172.6	2213.9	2292.1	2411.6	2576.7	2635.4	2750.6	2863.5	2894.0
17.5°	2318.2	2307.3	2294.3	2298.6	2344.3	2468.1	2676.7	2748.4	2891.8	3026.5	3052.6
20°	2596.3	2568.1	2533.3	2487.7	2465.9	2550.7	2791.8	2874.4	3048.2	3202.5	3206.8
22.5°	3015.6	3004.8	2924.4	2791.8	2698.4	2700.6	2926.5	3022.1	3235.1	3404.5	3380.6
25°	3600.1	3593.5	3469.7	3252.4	3009.1	2926.5	3098.2	3195.9	3456.7	3637.0	3561.0
27.5°	4325.7	4280.1	4134.5	3841.2	3478.4	3219.8	3315.4	3402.3	3691.3	3860.8	3717.4
30°	4958.0	4960.1	4823.3	4516.9	4108.5	3660.9	3580.5	3656.5	3906.4	4084.6	3910.7
32.5°	5566.3	5585.8	5435.9	5160.0	4712.4	4236.6	3960.7	3973.8	4182.3	4375.7	4164.9
35°	6131.2	6146.4	6042.1	5807.5	5390.3	4838.5	4490.8	4484.3	4597.3	4795.0	4519.1
37.5°	6763.4	6778.6	6676.5	6465.8	6074.7	5527.2	5092.7	5084.0	5129.6	5290.4	4975.3
40°	7436.9	7465.2	7352.2	7174.0	6800.3	6337.6	5792.2	5714.0	5668.4	5857.4	5566.3
42.5°	8119.1	8162.6	8123.5	7945.3	7626.0	7243.6	6700.4	6578.7	6481.0	6717.8	6409.3
45°	8966.5	9018.6	9001.2	8864.4	8616.7	8306.0	7793.2	7652.0	7606.4	7825.8	7458.7
47.5°	9781.2	9837.7	9900.7	9870.3	9694.3	9550.9	8981.7	8901.3	8888.3	9122.9	8553.7
50°	10387.4	10439.5	10680.7	10854.5	10974.0	10943.6	10450.4	10330.9	10311.3	10461.2	9709.5
52.5°	10821.9	10871.9	11204.3	11747.4	12186.3	12425.3	11927.8	11901.7	11795.2	11743.1	10791.5
55°	11158.7	11228.2	11578.0	12399.2	13283.5	13813.6	13502.9	13409.5	13135.8	12835.9	11795.2
57.5°	11226.0	11254.3	11747.4	12855.5	14135.2	14993.4	14993.4	14830.4	14302.5	13887.5	12955.4
60°	10622.0	10708.9	11375.9	12818.6	14500.2	15764.6	16229.6	16116.6	15404.0	14893.4	14072.2
62.5°	9281.5	9379.3	10191.8	11934.3	14135.2	15923.2	17166.0	17148.6	16344.7	15725.5	14997.7
65°	7117.6	7189.3	7897.5	9983.3	12592.6	15312.7	17835.2	17883.0	17087.8	16275.2	15317.1
67.5°	3576.2	3626.1	4390.9	6819.9	9981.1	13555.1	17789.5	18002.5	17313.7	15984.1	14098.2
70°	1249.3	1299.2	1659.9	2926.5	6074.7	10350.4	16251.3	16598.9	15986.3	13644.2	10400.4
72.5°	428.0	451.9	688.7	1086.3	2363.8	6135.5	12358.0	12881.6	11784.4	9159.8	5976.9
75°	243.3	258.5	369.3	588.8	990.7	2018.4	7011.1	7332.6	6869.9	4992.7	2459.4
77.5°	165.1	178.2	230.3	334.6	547.5	649.6	2859.2	3600.1	3139.5	1629.5	627.9
80°	97.8	106.5	141.2	197.7	280.3	252.0	612.7	814.7	1049.4	486.7	189.0
82.5°	45.6	52.1	91.3	130.4	141.2	106.5	180.3	219.4	295.5	239.0	78.2
85°	0.0	0.0	30.4	54.3	52.1	30.4	50.0	54.3	80.4	119.5	30.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	4.3	6.5	13.0	23.9	13.0
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°	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7
2.5°	2433.4	2418.1	2435.5	2426.8	2435.5	2433.4	2416.0	2405.1	2405.1	2385.6	2379.0
5°	2463.8	2448.6	2452.9	2433.4	2429.0	2418.1	2396.4	2387.7	2387.7	2368.2	2361.7
7.5°	2531.1	2507.2	2502.9	2463.8	2446.4	2416.0	2376.9	2361.7	2359.5	2339.9	2333.4
10°	2637.6	2609.3	2589.8	2539.8	2489.8	2429.0	2346.4	2276.9	2237.8	2185.7	2181.3
12.5°	2767.9	2733.2	2702.8	2626.7	2544.2	2407.3	2163.9	1909.7	1753.3	1629.5	1638.2
15°	2913.5	2880.9	2833.1	2718.0	2548.5	2192.2	1683.8	1292.7	1101.5	999.4	995.1
17.5°	3072.1	3024.3	2946.1	2789.7	2411.6	1675.1	1095.0	773.5	673.5	638.8	630.1
20°	3219.8	3161.2	3063.4	2804.9	2016.2	1134.1	684.4	599.6	582.3	571.4	571.4
22.5°	3376.3	3302.4	3156.8	2687.6	1499.1	725.7	582.3	562.7	549.7	534.5	532.3
25°	3534.9	3439.3	3241.6	2381.2	982.0	571.4	545.3	523.6	499.7	475.8	469.3
27.5°	3669.6	3545.7	3306.8	1925.0	630.1	514.9	497.5	460.6	428.0	401.9	397.6
30°	3830.4	3671.8	3335.0	1407.9	495.4	454.1	428.0	388.9	349.8	323.7	315.0
32.5°	4045.4	3871.6	3291.5	916.9	438.9	399.8	358.5	312.9	273.8	245.5	241.2
35°	4380.0	4173.6	3091.7	584.4	397.6	345.4	295.5	247.7	215.1	193.4	189.0
37.5°	4788.5	4597.3	2763.6	438.9	356.3	299.8	241.2	195.5	171.6	156.4	152.1
40°	5394.7	5127.4	2357.3	384.6	315.0	254.2	197.7	160.8	143.4	130.4	126.0
42.5°	6181.1	5753.1	1890.2	349.8	275.9	212.9	160.8	132.5	117.3	108.6	106.5
45°	7100.2	6363.7	1397.0	315.0	239.0	176.0	132.5	108.6	97.8	91.3	89.1
47.5°	8040.9	6898.1	964.7	278.1	204.2	145.6	110.8	93.4	84.7	76.0	73.9
50°	9044.7	7350.0	658.3	241.2	173.8	119.5	95.6	84.7	73.9	67.4	65.2
52.5°	9781.2	7517.3	458.4	208.6	147.7	102.1	84.7	76.0	67.4	58.7	56.5
55°	10461.2	7513.0	347.6	176.0	126.0	89.1	76.0	67.4	58.7	52.1	50.0
57.5°	11139.1	7454.3	273.8	149.9	108.6	80.4	67.4	58.7	54.3	45.6	43.5
60°	11578.0	7232.7	212.9	126.0	93.4	69.5	58.7	52.1	45.6	39.1	36.9
62.5°	11810.4	6924.2	162.9	99.9	76.0	60.8	52.1	45.6	39.1	32.6	30.4
65°	11495.4	6376.7	128.2	78.2	58.7	52.1	43.5	36.9	30.4	23.9	21.7
67.5°	10098.4	5377.3	99.9	63.0	45.6	39.1	36.9	30.4	21.7	17.4	15.2
70°	7137.1	3682.6	78.2	47.8	34.8	30.4	28.2	23.9	17.4	13.0	10.9
72.5°	3917.3	1857.6	56.5	34.8	26.1	23.9	21.7	19.6	15.2	10.9	10.9
75°	1507.8	510.6	41.3	23.9	17.4	17.4	15.2	15.2	13.0	8.7	8.7
77.5°	393.2	152.1	26.1	15.2	10.9	10.9	10.9	8.7	8.7	6.5	6.5
80°	126.0	50.0	15.2	10.9	8.7	6.5	6.5	4.3	6.5	4.3	4.3
82.5°	41.3	17.4	8.7	8.7	6.5	4.3	4.3	2.2	2.2	0.0	0.0
85°	15.2	8.7	6.5	4.3	4.3	4.3	2.2	0.0	0.0	0.0	0.0
87.5°	8.7	4.3	4.3	4.3	4.3	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)