

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: P636766

Luminaire Tested: GWS-SA4B-740-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11474 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

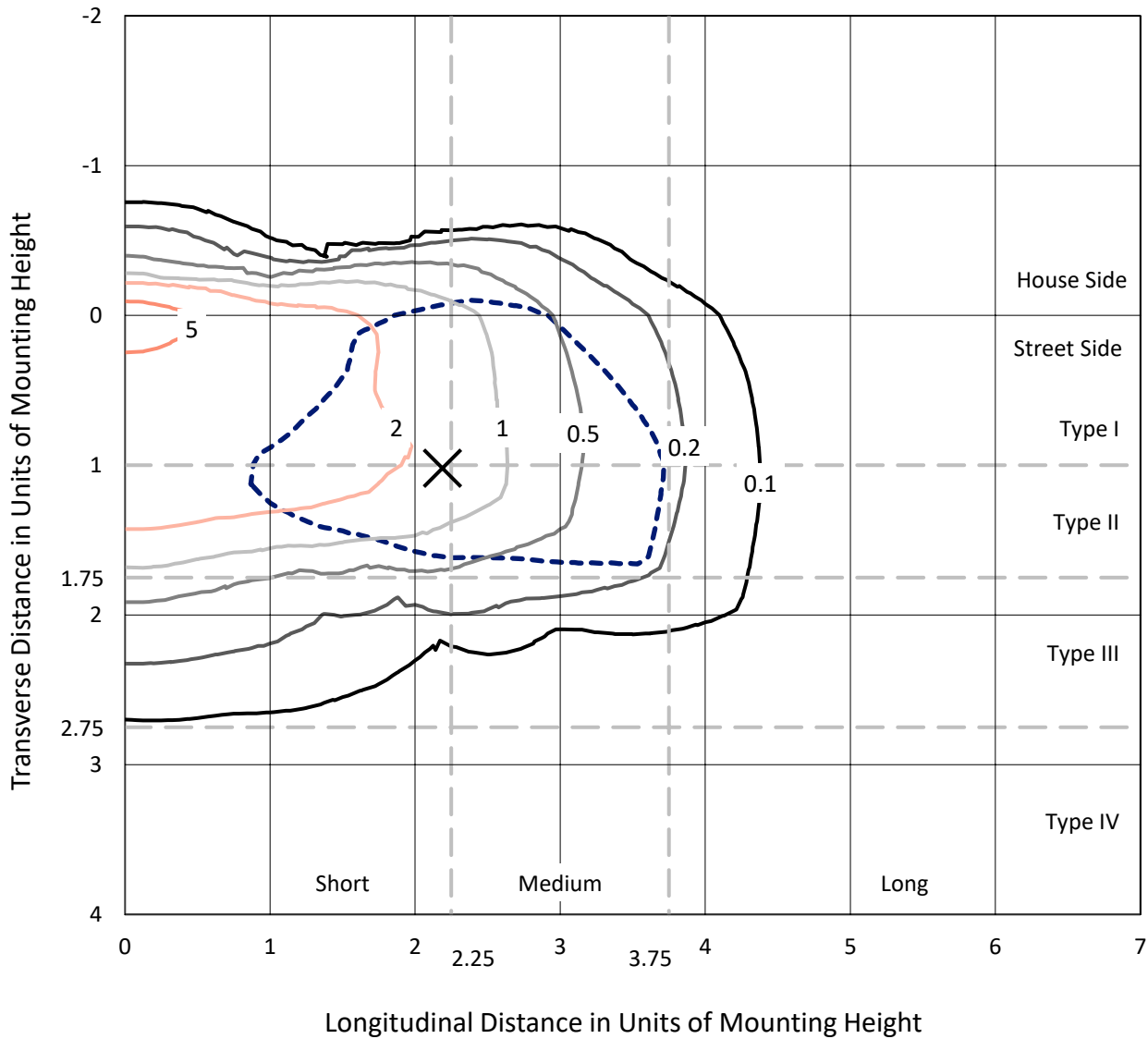
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

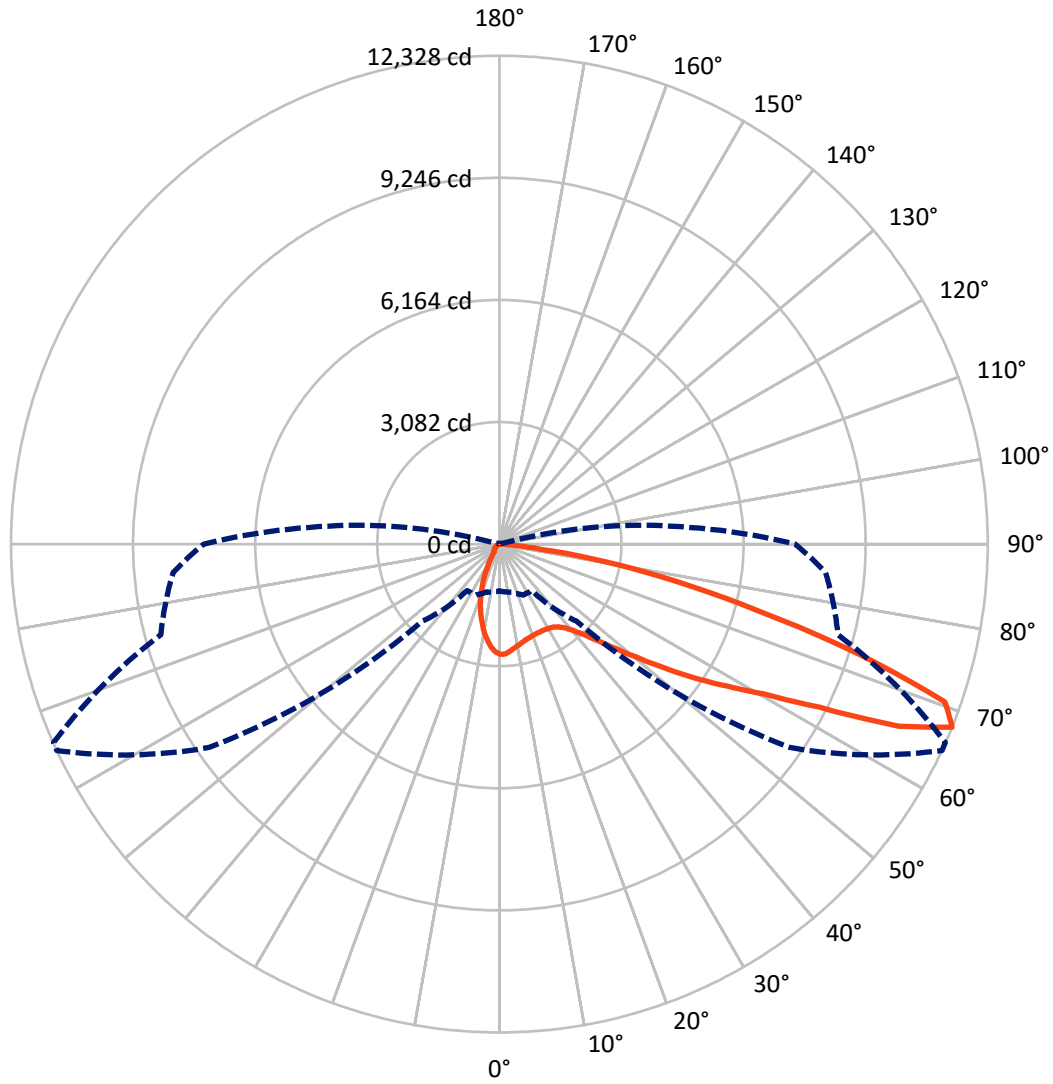
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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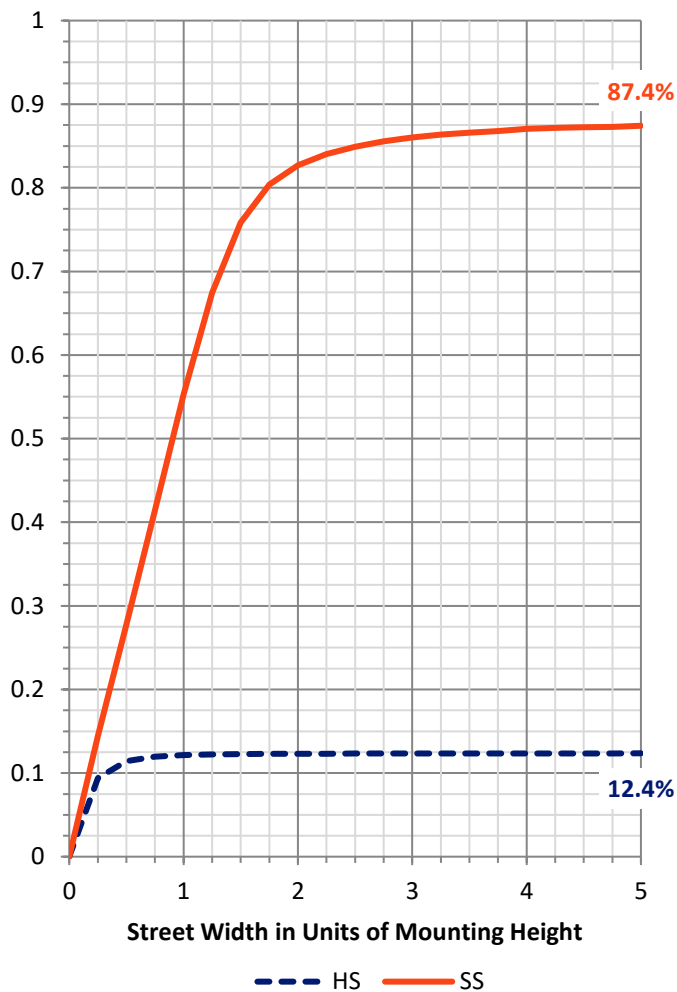
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1432.8	0.0	1432.8
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	10041.2	0.0	10041.2
	% Fixture	87.5	0.0	87.5
Total	Lumens	11474.0	0.0	11474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	2.0
10°-20°	519.6	4.5
20°-30°	742.4	6.5
30°-40°	1080.1	9.4
40°-50°	1691.7	14.7
50°-60°	2639.0	23.0
60°-70°	2898.9	25.3
70°-80°	1542.8	13.4
80°-90°	128.5	1.1
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°	11474.0	100.0
0°-180°	11474.0	100.0

Coefficient of Utilization



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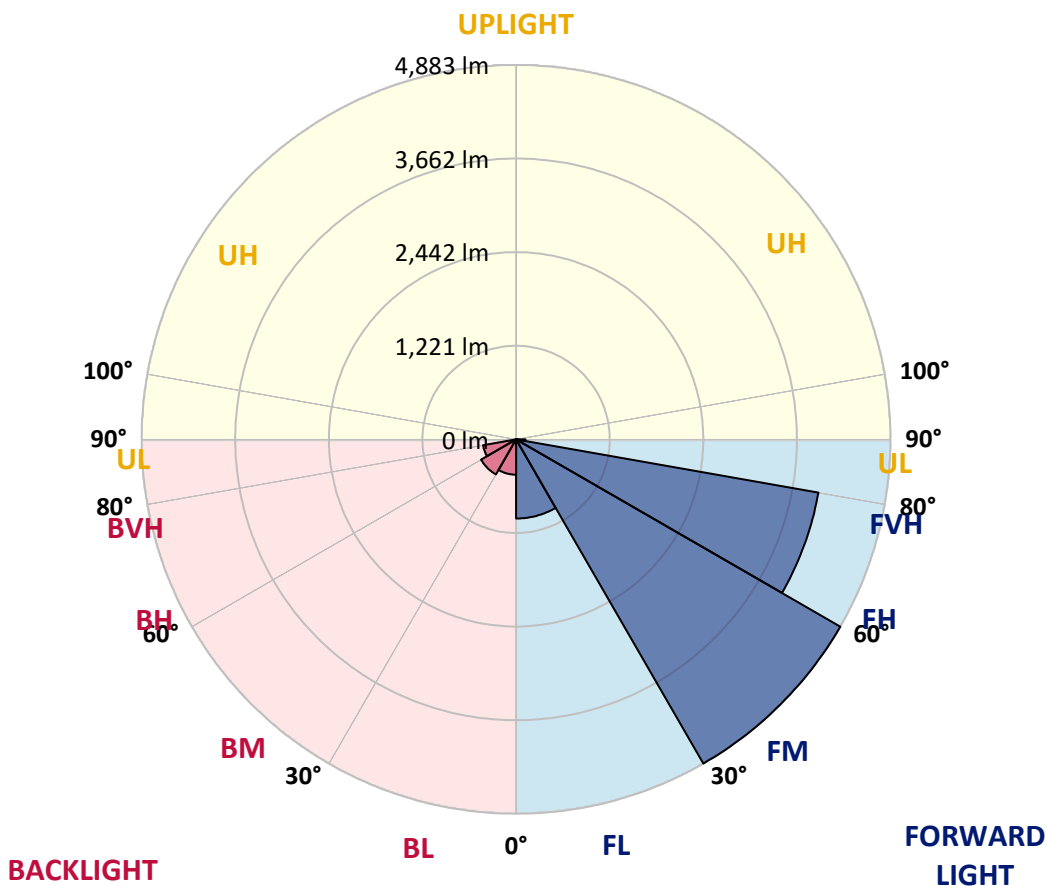
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1032.6	9.0			
FM (30°-60°)	4883.1	42.6			
FH (60°-80°)	4004.0	34.9			G2/5000
FVH (80°-90°)	121.6	1.1			G2/225
BL (0°-30°)	460.5	4.0	B1/500		
BM (30°-60°)	527.7	4.6	B1/1000		
BH (60°-80°)	437.6	3.8	B1/500		G1/500
BVH (80°-90°)	6.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8
2.5°	2686.3	2694.6	2683.2	2711.2	2716.4	2747.5	2765.2	2777.6	2776.6	2792.1	2792.1
5°	2528.6	2536.9	2530.7	2560.8	2584.6	2633.4	2673.9	2720.6	2722.6	2770.4	2788.0
7.5°	2394.7	2395.8	2395.8	2433.1	2464.3	2524.4	2584.6	2656.2	2664.5	2738.2	2784.9
10°	2284.8	2287.9	2288.9	2331.5	2365.7	2438.3	2515.1	2601.2	2610.6	2710.2	2782.8
12.5°	2209.0	2210.1	2214.2	2258.8	2296.2	2371.9	2449.7	2548.3	2560.8	2678.0	2773.5
15°	2172.7	2170.6	2172.7	2210.1	2247.4	2320.0	2399.9	2505.8	2519.3	2651.0	2774.5
17.5°	2170.6	2167.5	2165.4	2193.5	2217.3	2281.7	2362.6	2477.8	2492.3	2638.6	2785.9
20°	2200.7	2198.6	2188.3	2200.7	2205.9	2258.8	2338.7	2456.0	2470.5	2636.5	2810.8
22.5°	2279.6	2274.4	2258.8	2247.4	2219.4	2250.5	2322.1	2440.4	2457.0	2641.7	2843.0
25°	2396.8	2394.7	2375.0	2347.0	2275.4	2263.0	2323.2	2440.4	2456.0	2647.9	2877.2
27.5°	2573.2	2560.8	2535.9	2487.1	2384.4	2311.7	2343.9	2446.6	2462.2	2656.2	2905.2
30°	2752.7	2751.7	2743.4	2693.6	2541.0	2405.1	2387.5	2463.2	2477.8	2663.5	2931.2
32.5°	2938.4	2941.6	2962.3	2923.9	2756.9	2544.2	2466.3	2497.5	2507.8	2678.0	2954.0
35°	3114.8	3121.1	3176.1	3189.5	3019.4	2754.8	2595.0	2566.0	2567.0	2710.2	2984.1
37.5°	3284.0	3304.7	3392.9	3458.3	3346.2	3010.0	2780.7	2682.2	2673.9	2774.5	3029.8
40°	3475.9	3515.3	3626.4	3737.4	3702.1	3347.3	3033.9	2860.6	2843.0	2892.8	3111.7
42.5°	3688.6	3731.2	3878.5	4034.1	4050.7	3755.0	3350.4	3121.1	3091.0	3092.0	3265.3
45°	3916.9	3974.0	4145.2	4369.3	4469.9	4209.5	3740.5	3472.8	3442.7	3398.1	3512.2
47.5°	4216.8	4266.6	4431.5	4689.9	4882.9	4697.2	4252.0	3925.2	3870.2	3804.8	3896.1
50°	4475.1	4518.7	4660.8	4984.6	5386.1	5325.9	4832.0	4490.7	4437.8	4326.7	4402.5
52.5°	4532.2	4566.4	4697.2	5061.3	5771.1	6119.7	5542.8	5174.4	5137.1	4931.6	4960.7
55°	4275.9	4327.8	4445.0	4849.7	5871.7	6895.8	6465.2	5945.4	5867.6	5539.7	5591.6
57.5°	3628.4	3720.8	3830.8	4356.8	5598.8	7308.8	7753.9	6761.9	6691.4	6124.9	6125.9
60°	2659.3	2734.0	2807.7	3289.1	4951.4	7280.7	8923.2	7679.2	7550.5	6603.2	6585.6
62.5°	1934.1	1972.5	1971.4	2142.6	3400.2	6801.4	9537.5	9061.2	8761.4	7114.7	7014.1
65°	1521.1	1520.1	1564.7	1620.7	1898.8	5250.2	9613.2	11079.3	10755.6	7800.6	7591.0
67.5°	1183.9	1206.7	1251.3	1416.3	1426.7	2747.5	8947.1	12327.6	12321.3	8847.5	8266.5
70°	913.1	944.2	1007.5	1248.2	1317.7	1537.7	6694.5	11932.2	12032.9	9315.4	7788.1
72.5°	586.2	584.2	677.5	1008.5	1265.9	1281.4	3702.1	9478.4	9592.5	8437.7	6297.1
75°	327.9	330.0	382.9	617.4	1179.7	1205.7	1833.4	6758.8	6849.1	6578.3	4838.3
77.5°	128.7	132.8	179.5	324.8	778.2	1077.0	1089.5	4609.0	4622.4	4076.7	2967.5
80°	51.9	55.0	91.3	201.3	474.2	725.3	778.2	2715.4	2660.4	1578.2	863.3
82.5°	15.6	16.6	36.3	114.1	248.0	515.7	525.0	1041.7	983.6	339.3	220.0
85°	1.0	1.0	8.3	35.3	88.2	129.7	349.7	339.3	300.9	85.1	97.5
87.5°	0.0	0.0	1.0	1.0	2.1	4.2	37.4	62.3	63.3	15.6	43.6
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°	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8
2.5°	2792.1	2754.8	2751.7	2722.6	2693.6	2657.3	2614.7	2583.6	2561.8	2523.4	2516.1
5°	2788.0	2738.2	2691.5	2608.5	2516.1	2416.5	2329.4	2248.4	2197.6	2163.4	2148.8
7.5°	2779.7	2716.4	2608.5	2451.8	2297.2	2122.9	1987.0	1862.5	1777.4	1727.6	1705.8
10°	2773.5	2688.4	2513.0	2275.4	2035.7	1795.0	1588.5	1403.9	1301.1	1220.2	1206.7
12.5°	2761.0	2647.9	2390.6	2068.9	1759.7	1440.2	1176.6	950.4	793.8	723.2	698.3
15°	2748.6	2605.4	2268.2	1851.1	1458.8	1064.6	745.0	527.1	419.2	386.0	383.9
17.5°	2746.5	2567.0	2135.4	1644.6	1143.4	697.3	424.4	341.4	318.5	310.2	310.2
20°	2752.7	2534.8	2004.6	1407.0	833.2	424.4	316.5	295.7	282.2	275.0	275.0
22.5°	2758.9	2501.6	1879.1	1167.3	553.0	310.2	279.1	261.5	245.9	237.6	233.5
25°	2763.1	2465.3	1740.0	926.6	361.1	269.8	244.9	222.0	203.4	193.0	193.0
27.5°	2762.1	2421.7	1600.0	691.0	280.1	239.7	209.6	185.7	167.1	155.6	156.7
30°	2753.8	2374.0	1454.7	482.5	244.9	209.6	179.5	154.6	135.9	126.6	125.5
32.5°	2747.5	2323.2	1286.6	339.3	220.0	183.7	152.5	128.7	113.1	105.8	104.8
35°	2740.3	2273.4	1126.8	258.4	198.2	158.8	128.7	108.9	96.5	90.3	90.3
37.5°	2742.3	2221.5	953.5	222.0	176.4	138.0	110.0	93.4	83.0	76.8	75.7
40°	2774.5	2190.3	783.4	201.3	156.7	119.3	95.5	80.9	70.6	64.3	63.3
42.5°	2854.4	2191.4	620.5	185.7	139.0	101.7	83.0	69.5	60.2	52.9	51.9
45°	3014.2	2235.0	476.3	169.1	120.4	88.2	71.6	59.1	49.8	43.6	42.5
47.5°	3275.7	2364.7	361.1	154.6	104.8	76.8	61.2	49.8	41.5	36.3	35.3
50°	3691.7	2599.2	284.3	137.0	88.2	66.4	51.9	41.5	34.2	29.1	28.0
52.5°	4191.8	2950.9	243.8	121.4	75.7	58.1	44.6	34.2	28.0	23.9	22.8
55°	4766.7	3371.1	225.2	105.8	64.3	49.8	36.3	28.0	22.8	19.7	17.6
57.5°	5293.8	3749.8	224.1	90.3	55.0	42.5	30.1	23.9	19.7	15.6	14.5
60°	5807.4	4066.3	210.6	74.7	47.7	35.3	25.9	19.7	16.6	13.5	12.5
62.5°	6273.2	4323.6	176.4	60.2	40.5	29.1	21.8	17.6	14.5	11.4	11.4
65°	6858.4	4651.5	134.9	48.8	33.2	23.9	18.7	15.6	13.5	10.4	10.4
67.5°	7463.4	4824.8	96.5	40.5	27.0	20.8	16.6	14.5	11.4	9.3	9.3
70°	6759.9	4076.7	69.5	33.2	22.8	17.6	14.5	13.5	11.4	9.3	8.3
72.5°	5279.2	2939.5	51.9	25.9	19.7	16.6	13.5	12.5	10.4	8.3	8.3
75°	3914.8	1714.1	39.4	20.8	15.6	13.5	13.5	12.5	10.4	8.3	7.3
77.5°	2128.1	597.6	30.1	16.6	12.5	10.4	11.4	11.4	9.3	7.3	6.2
80°	563.4	163.9	20.8	12.5	10.4	8.3	8.3	10.4	8.3	6.2	6.2
82.5°	163.9	47.7	14.5	10.4	8.3	7.3	7.3	7.3	6.2	5.2	4.2
85°	79.9	17.6	10.4	8.3	7.3	6.2	5.2	5.2	4.2	3.1	3.1
87.5°	35.3	7.3	8.3	7.3	7.3	5.2	4.2	3.1	3.1	2.1	1.0
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)