

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: P637671

Luminaire Tested: GWS-SA4D-730-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13770.6 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

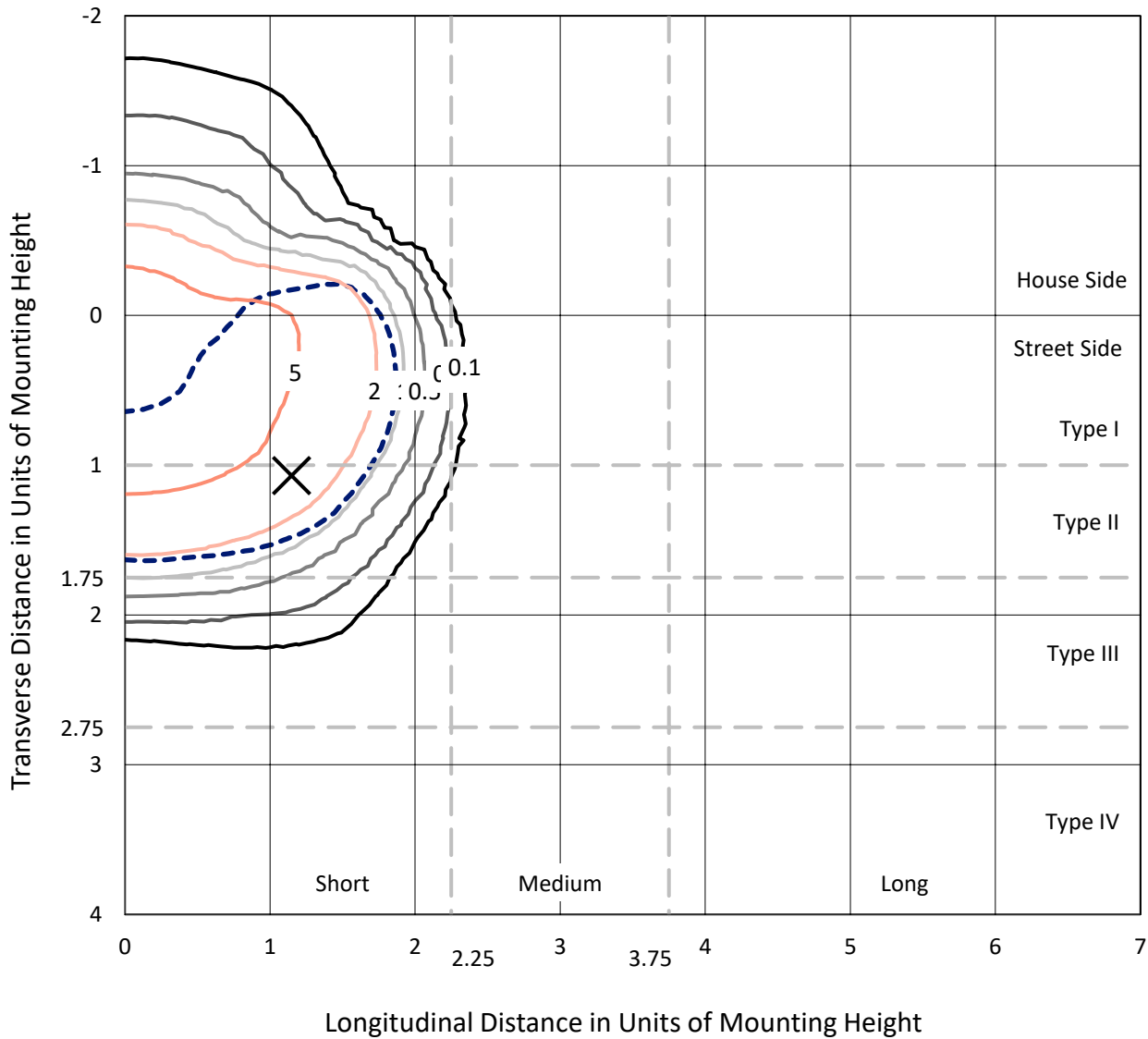
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

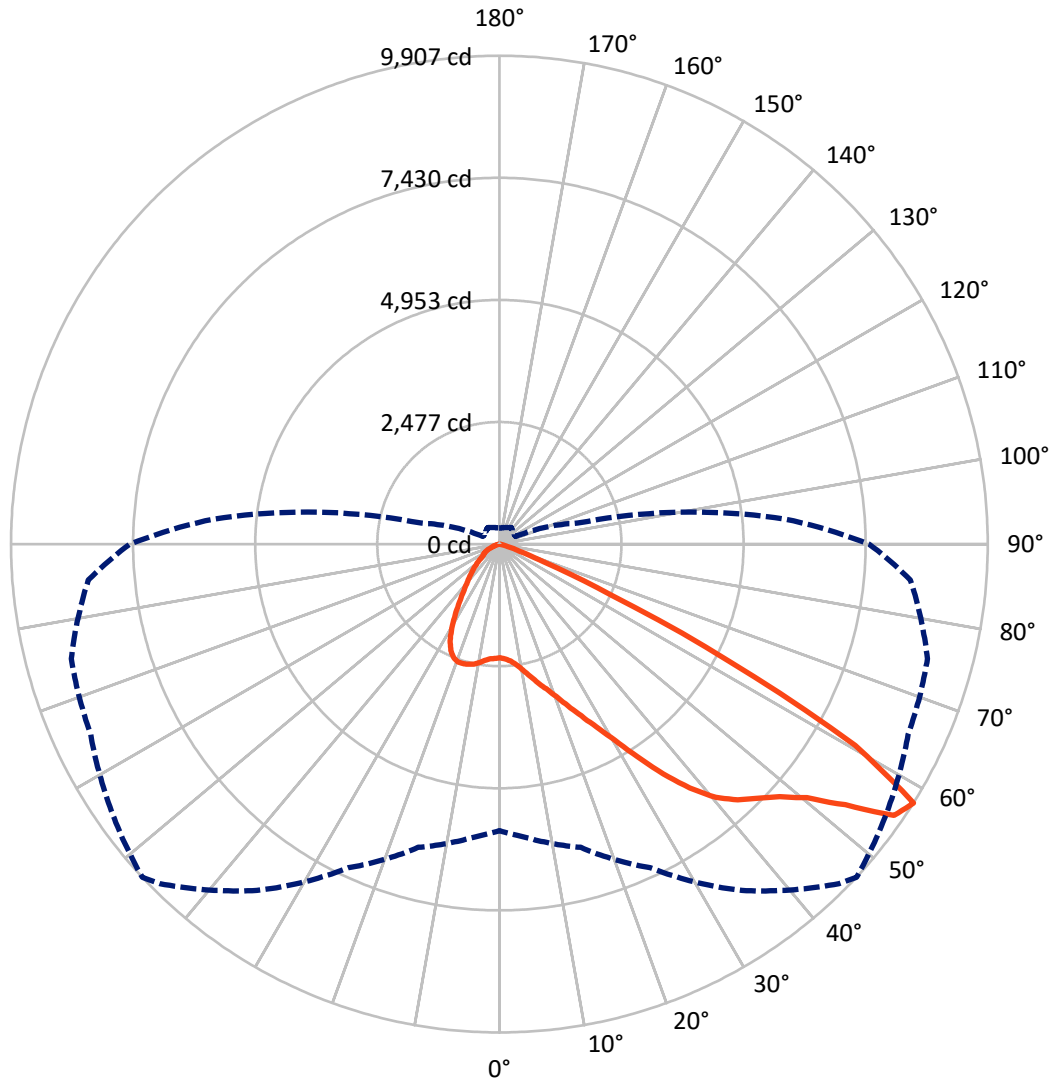
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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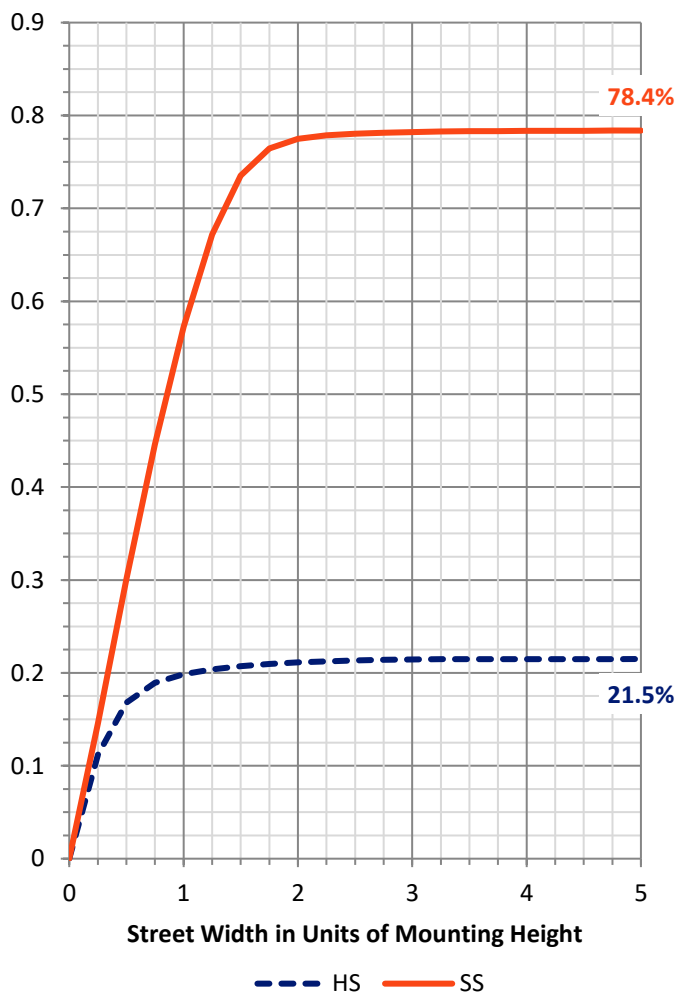
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2987.5	0.0	2987.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10783.1	0.0	10783.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	13770.6	0.0	13770.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.3	1.7
10°-20°	773.8	5.6
20°-30°	1436.9	10.4
30°-40°	2300.2	16.7
40°-50°	3362.3	24.4
50°-60°	4149.7	30.1
60°-70°	1386.6	10.1
70°-80°	129.2	0.9
80°-90°	2.7	0.0
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°	13770.6	100.0
0°-180°	13770.6	100.0

Coefficient of Utilization



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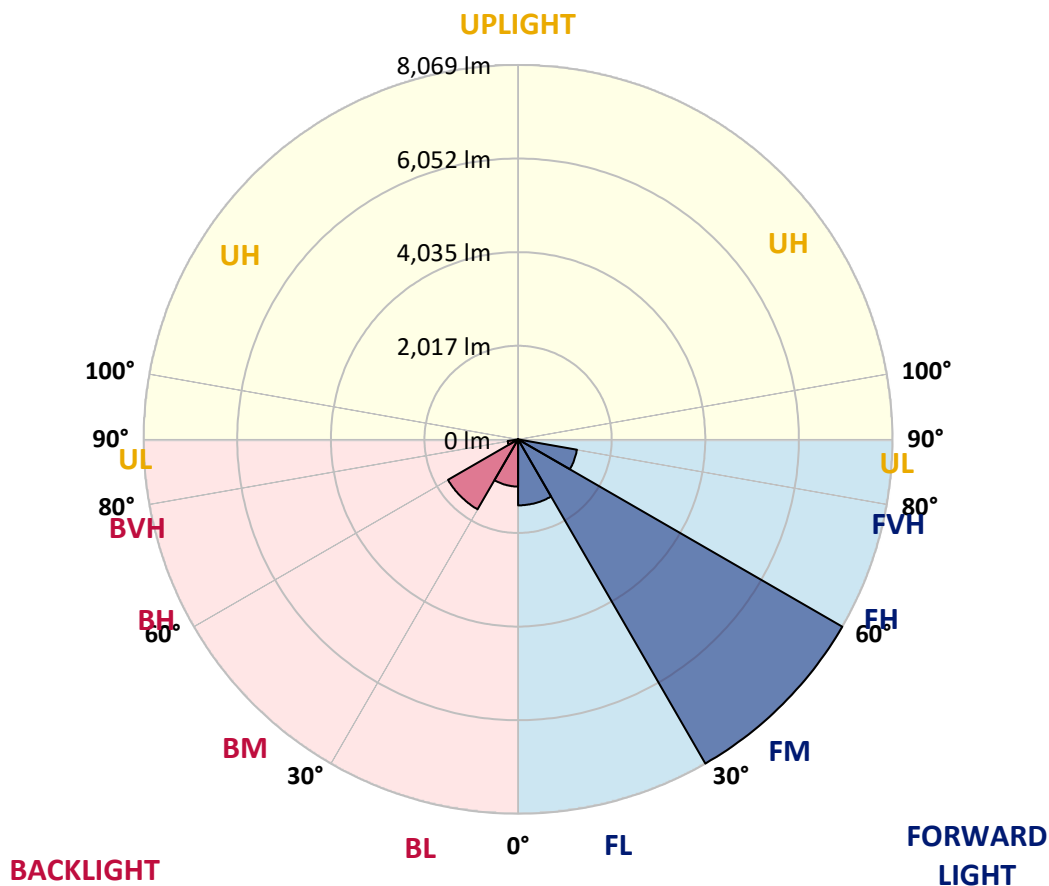
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.1	10.3			
FM (30°-60°)	8069.5	58.6			
FH (60°-80°)	1288.6	9.4			G1/1800
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	1016.9	7.4	B3/2500		
BM (30°-60°)	1742.6	12.7	B2/2500		
BH (60°-80°)	227.1	1.6	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2305.2	2305.2	2305.2	2305.2	2305.2	2305.2	2305.2	2305.2	2305.2	2305.2	2305.2
2.5°	2329.2	2327.6	2326.0	2335.6	2332.4	2330.8	2334.0	2334.0	2334.0	2324.4	2305.2
5°	2385.1	2385.1	2383.5	2393.1	2385.1	2380.3	2381.9	2381.9	2375.6	2358.0	2334.0
7.5°	2473.1	2469.9	2466.7	2476.3	2468.3	2466.7	2469.9	2460.3	2449.1	2420.3	2386.7
10°	2599.4	2599.4	2594.6	2604.2	2597.8	2594.6	2594.6	2588.2	2567.4	2522.6	2473.1
12.5°	2773.6	2765.6	2754.4	2746.4	2743.2	2741.6	2743.2	2733.6	2711.3	2653.7	2585.0
15°	2963.8	2957.5	2939.9	2927.1	2909.5	2906.3	2915.9	2907.9	2885.5	2807.2	2709.7
17.5°	3203.6	3211.6	3166.9	3139.7	3088.5	3085.3	3088.5	3101.3	3085.3	2984.6	2842.4
20°	3408.3	3414.7	3381.1	3361.9	3315.5	3294.8	3301.2	3321.9	3304.4	3186.1	2987.8
22.5°	3627.3	3635.3	3600.1	3560.1	3539.3	3539.3	3563.3	3592.1	3568.1	3413.1	3154.1
25°	3889.4	3895.8	3867.1	3814.3	3777.5	3823.9	3859.1	3935.8	3895.8	3684.8	3350.7
27.5°	4190.0	4191.6	4150.0	4095.7	4076.5	4162.8	4198.0	4316.3	4300.3	3990.2	3558.5
30°	4511.3	4512.9	4503.3	4466.6	4449.0	4562.5	4610.4	4781.5	4770.3	4369.0	3841.5
32.5°	4845.4	4845.4	4863.0	4859.8	4880.6	5066.0	5142.8	5337.8	5326.6	4832.6	4193.2
35°	5181.1	5182.7	5213.1	5289.8	5376.2	5622.4	5723.1	5959.7	5934.1	5387.4	4642.4
37.5°	5563.2	5547.2	5588.8	5703.9	5895.7	6180.3	6276.2	6501.6	6472.8	5954.9	5229.1
40°	6023.6	5994.8	5994.8	6129.1	6346.5	6674.2	6755.8	6867.7	6770.2	6413.7	5804.6
42.5°	6532.0	6504.8	6469.6	6587.9	6770.2	7025.9	7093.1	7062.7	6982.8	6846.9	6460.0
45°	7046.7	7005.2	7029.1	7101.1	7206.6	7328.1	7353.7	7213.0	7176.2	7214.6	7002.0
47.5°	7438.4	7409.6	7468.8	7569.5	7655.8	7673.4	7655.8	7460.8	7457.6	7593.5	7377.6
50°	7569.5	7572.7	7735.7	7956.3	8095.4	8109.8	8085.8	7862.0	7831.7	7871.6	7580.7
52.5°	7582.3	7595.1	7833.2	8253.7	8632.6	8805.2	8786.0	8544.6	8247.3	8204.1	7887.6
55°	7273.7	7348.9	7681.4	8295.3	9101.0	9652.5	9716.4	9254.4	8813.2	8776.4	8547.8
57.5°	5814.2	5967.7	6368.9	7243.4	8578.2	9740.4	9906.7	9574.1	9147.3	8990.7	8370.4
60°	3475.4	3665.6	4050.9	5123.6	6528.8	8005.9	8292.1	8338.4	8141.8	7689.4	6421.7
62.5°	1491.5	1475.5	1950.3	2772.0	3883.1	5088.4	5217.9	5419.3	5590.4	5117.2	3897.4
65°	511.6	556.3	773.7	1250.1	1943.9	2362.8	2477.9	2658.5	2901.5	2394.7	1427.6
67.5°	316.5	335.7	446.0	738.6	1048.7	1032.7	981.6	952.8	927.2	634.7	391.7
70°	230.2	246.2	313.3	508.4	705.0	495.6	430.0	348.5	386.9	356.5	278.2
72.5°	155.1	167.9	215.8	308.5	361.3	241.4	223.8	254.2	306.9	292.5	227.0
75°	92.7	100.7	123.1	150.3	147.1	124.7	126.3	179.0	235.0	219.0	161.5
77.5°	63.9	67.1	81.5	97.5	71.9	38.4	35.2	49.6	79.9	79.9	54.4
80°	16.0	20.8	20.8	12.8	11.2	9.6	9.6	14.4	22.4	16.0	8.0
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2
85°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
87.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
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°	2305.2	2305.2	2305.2	2305.2	2305.2	2305.2	2305.2	2305.2	2305.2	2305.2	2305.2
2.5°	2316.4	2297.2	2310.0	2306.8	2316.4	2319.6	2305.2	2302.0	2303.6	2284.4	2278.0
5°	2338.8	2316.4	2322.8	2316.4	2327.6	2337.2	2332.4	2338.8	2346.8	2332.4	2326.0
7.5°	2386.7	2364.4	2362.8	2353.2	2369.2	2375.6	2374.0	2391.5	2407.5	2397.9	2388.3
10°	2469.9	2439.5	2436.3	2428.3	2433.1	2437.9	2420.3	2423.5	2437.9	2426.7	2421.9
12.5°	2572.2	2535.4	2527.4	2508.2	2508.2	2484.3	2445.9	2437.9	2449.1	2441.1	2433.1
15°	2682.5	2632.9	2620.1	2586.6	2554.6	2509.8	2469.9	2460.3	2468.3	2458.7	2452.3
17.5°	2805.6	2749.6	2708.1	2648.9	2578.6	2525.8	2481.1	2460.3	2447.5	2428.3	2426.7
20°	2927.1	2853.5	2783.2	2688.9	2596.2	2516.2	2442.7	2388.3	2342.0	2313.2	2302.0
22.5°	3067.8	2959.0	2845.5	2712.9	2580.2	2458.7	2329.2	2236.5	2156.5	2129.4	2116.6
25°	3218.0	3077.3	2907.9	2735.2	2525.8	2330.8	2154.9	2017.5	1912.0	1876.8	1862.4
27.5°	3384.3	3190.8	2971.8	2730.4	2413.9	2148.5	1915.1	1744.1	1640.2	1608.2	1619.4
30°	3595.3	3337.9	3051.8	2680.9	2246.1	1892.8	1619.4	1475.5	1397.2	1366.8	1368.4
32.5°	3876.7	3548.9	3168.5	2575.4	2030.3	1601.8	1362.0	1256.5	1203.8	1163.8	1160.6
35°	4279.5	3870.3	3277.2	2405.9	1768.1	1342.8	1168.6	1085.5	1011.9	965.6	973.6
37.5°	4762.3	4274.7	3336.3	2177.3	1473.9	1141.4	1023.1	938.4	855.3	786.5	794.5
40°	5334.6	4803.9	3331.5	1876.8	1205.4	1003.9	901.6	802.5	698.6	636.3	642.6
42.5°	5972.5	5304.2	3227.6	1558.7	999.1	892.0	784.9	660.2	559.5	521.2	522.7
45°	6525.6	5710.3	3045.4	1229.3	840.9	783.3	663.4	535.5	490.8	463.6	462.0
47.5°	6934.8	6007.6	2784.8	967.2	713.0	684.2	545.1	479.6	444.4	422.0	418.8
50°	7163.4	6111.5	2497.0	757.7	602.7	580.3	487.6	434.8	410.8	396.5	393.3
52.5°	7470.4	6236.2	2290.8	597.9	505.2	474.8	449.2	404.5	388.5	377.3	372.5
55°	7956.3	6477.6	2111.8	474.8	420.4	414.0	423.6	386.9	377.3	359.7	353.3
57.5°	7499.1	5819.0	1640.2	367.7	354.9	378.9	409.2	369.3	345.3	329.3	322.9
60°	5277.1	3868.7	824.9	295.7	316.5	354.9	385.3	334.1	310.1	313.3	310.1
62.5°	2909.5	1935.9	370.9	247.8	275.0	313.3	329.3	289.4	273.4	300.5	305.3
65°	951.2	658.6	214.2	191.8	217.4	255.8	284.6	275.0	271.8	303.7	313.3
67.5°	292.5	217.4	145.5	137.5	150.3	188.6	239.8	297.3	319.7	329.3	334.1
70°	219.0	171.1	124.7	116.7	123.1	143.9	203.0	247.8	233.4	235.0	231.8
72.5°	175.8	135.9	107.1	102.3	102.3	99.1	107.1	134.3	151.9	159.9	159.9
75°	123.1	95.9	81.5	75.1	59.1	48.0	43.2	43.2	38.4	36.8	35.2
77.5°	41.6	35.2	32.0	25.6	17.6	14.4	12.8	11.2	8.0	4.8	3.2
80°	6.4	4.8	3.2	3.2	3.2	1.6	1.6	1.6	0.0	0.0	0.0
82.5°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0
85°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	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)