

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: P637891

Luminaire Tested: GWS-SA4D-760-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637891
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15256.8 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

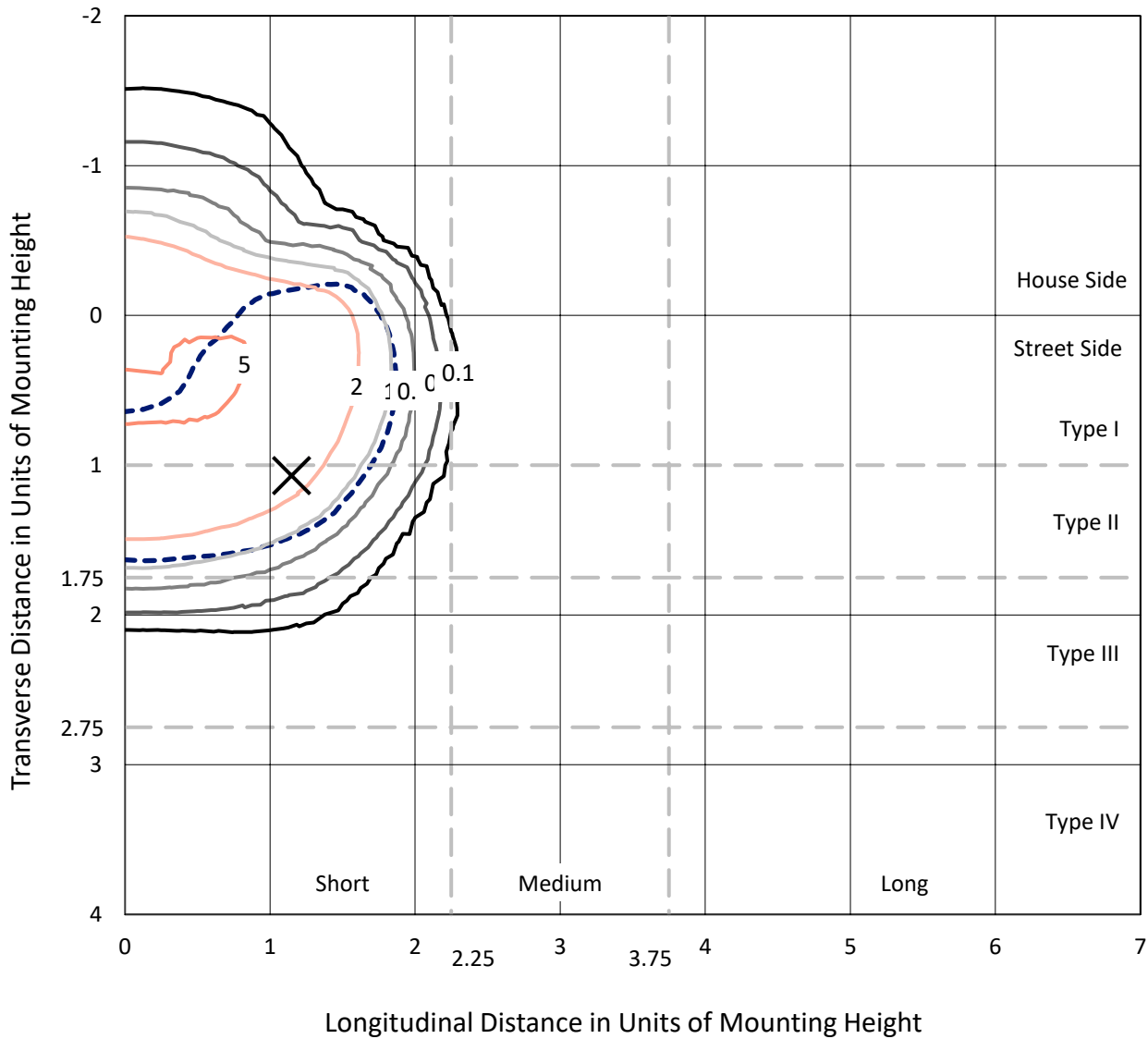
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

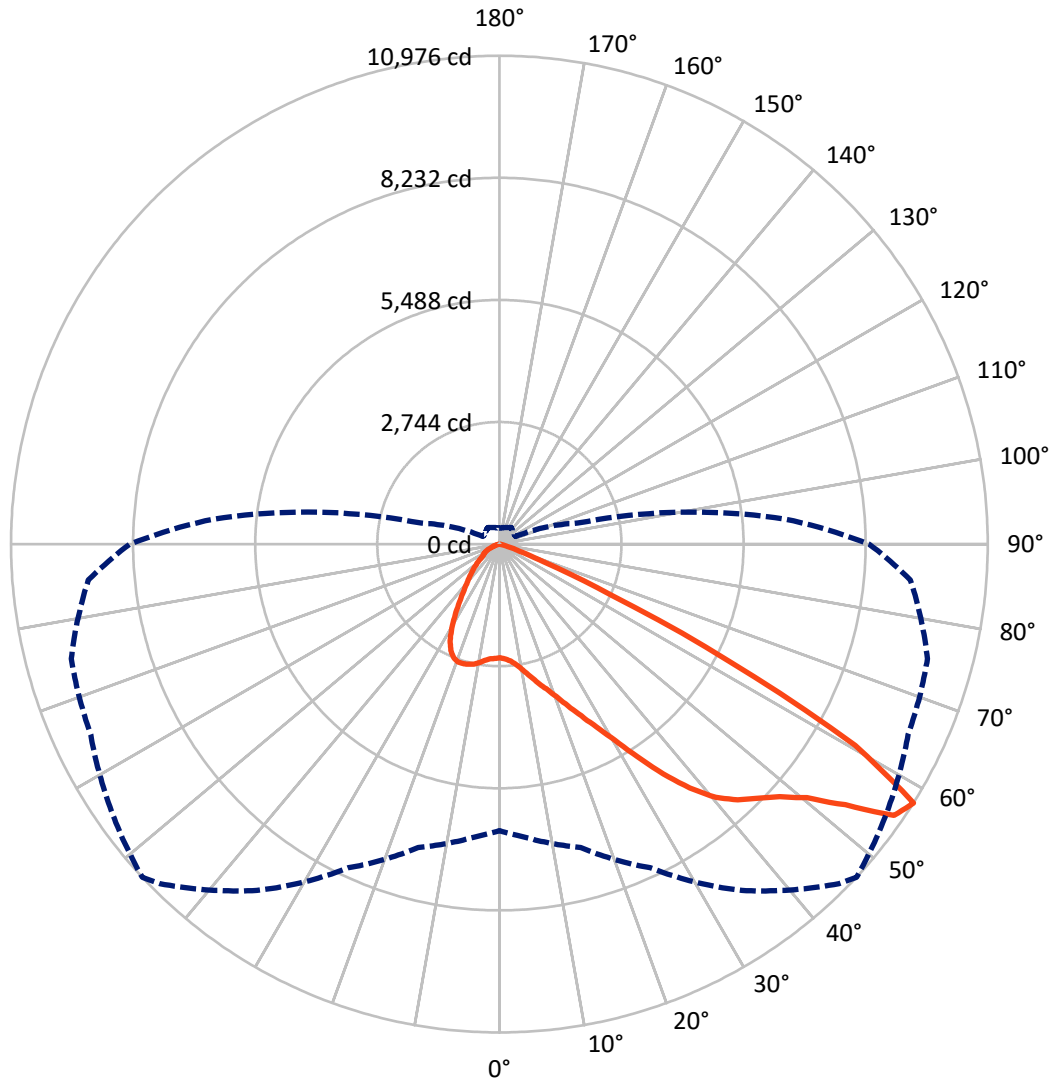
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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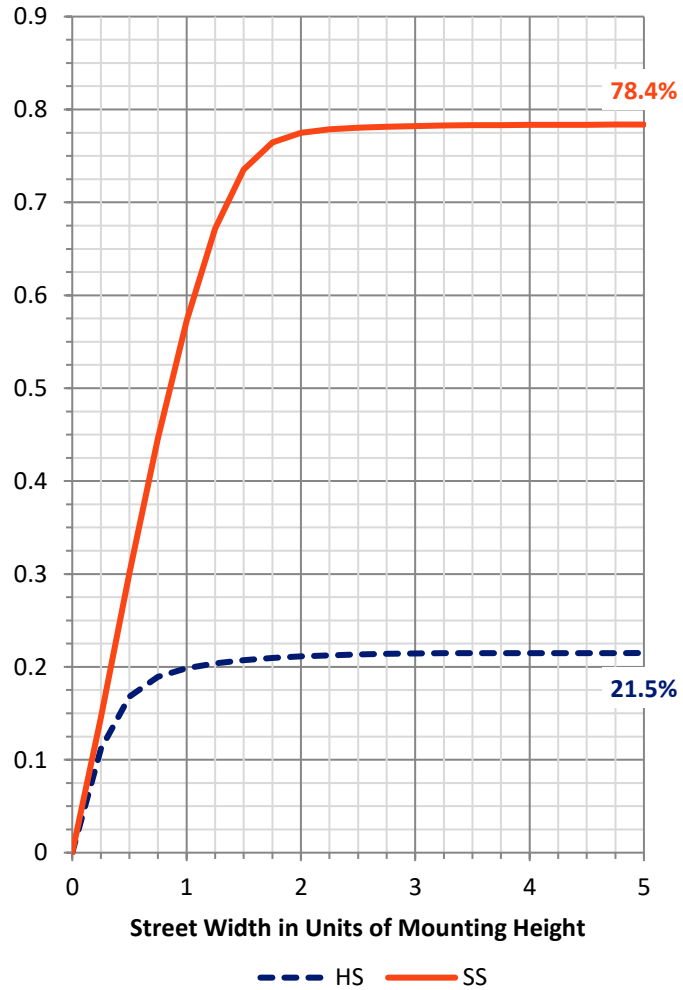
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3309.9	0.0	3309.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11946.9	0.0	11946.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	15256.8	0.0	15256.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	1.7
10°-20°	857.4	5.6
20°-30°	1591.9	10.4
30°-40°	2548.4	16.7
40°-50°	3725.2	24.4
50°-60°	4597.5	30.1
60°-70°	1536.2	10.1
70°-80°	143.1	0.9
80°-90°	3.0	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°	15256.8	100.0
0°-180°	15256.8	100.0

Coefficient of Utilization

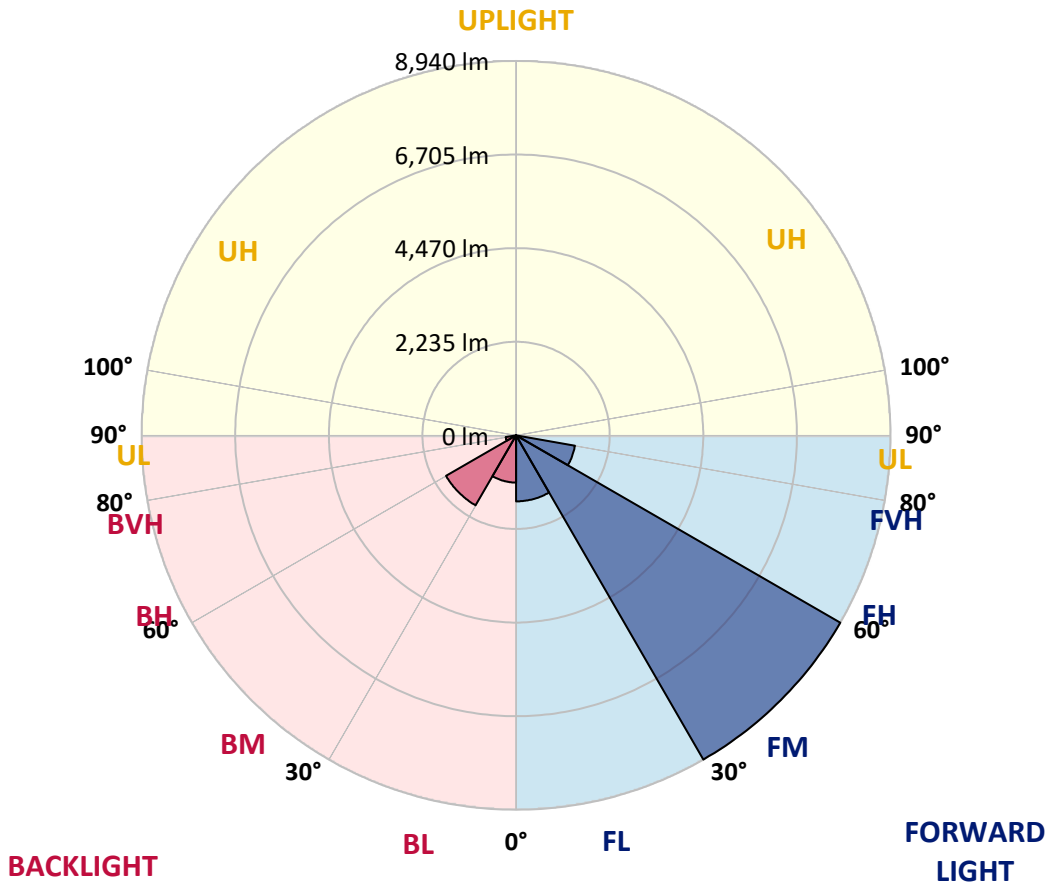


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1576.7	10.3			
FM (30°-60°)	8940.4	58.6			
FH (60°-80°)	1427.7	9.4			G1/1800
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1126.7	7.4	B3/2500		
BM (30°-60°)	1930.7	12.7	B2/2500		
BH (60°-80°)	251.6	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°	2554.0	2554.0	2554.0	2554.0	2554.0	2554.0	2554.0	2554.0	2554.0	2554.0	2554.0
2.5°	2580.6	2578.8	2577.0	2587.7	2584.1	2582.3	2585.9	2585.9	2585.9	2575.3	2554.0
5°	2642.6	2642.6	2640.8	2651.4	2642.6	2637.2	2639.0	2639.0	2631.9	2612.5	2585.9
7.5°	2740.0	2736.4	2732.9	2743.5	2734.7	2732.9	2736.4	2725.8	2713.4	2681.5	2644.3
10°	2879.9	2879.9	2874.6	2885.2	2878.1	2874.6	2874.6	2867.5	2844.5	2794.9	2740.0
12.5°	3073.0	3064.1	3051.7	3042.8	3039.3	3037.5	3039.3	3028.7	3003.9	2940.1	2864.0
15°	3283.7	3276.6	3257.2	3243.0	3223.5	3220.0	3230.6	3221.7	3196.9	3110.1	3002.1
17.5°	3549.4	3558.2	3508.7	3478.5	3421.9	3418.3	3421.9	3436.0	3418.3	3306.7	3149.1
20°	3776.1	3783.2	3746.0	3724.7	3673.4	3650.3	3657.4	3680.5	3661.0	3529.9	3310.3
22.5°	4018.7	4027.6	3988.6	3944.4	3921.3	3921.3	3947.9	3979.8	3953.2	3781.4	3494.5
25°	4309.2	4316.3	4284.4	4226.0	4185.2	4236.6	4275.6	4360.6	4316.3	4082.5	3712.3
27.5°	4642.2	4644.0	4597.9	4537.7	4516.4	4612.1	4651.1	4782.1	4764.4	4420.8	3942.6
30°	4998.2	5000.0	4989.3	4948.6	4929.1	5054.9	5108.0	5297.5	5285.1	4840.6	4256.1
32.5°	5368.4	5368.4	5387.9	5384.3	5407.3	5612.8	5697.8	5913.9	5901.5	5354.2	4645.7
35°	5740.3	5742.1	5775.7	5860.8	5956.4	6229.2	6340.7	6602.9	6574.5	5968.8	5143.4
37.5°	6163.6	6145.9	6192.0	6319.5	6532.0	6847.3	6953.6	7203.3	7171.4	6597.6	5793.4
40°	6673.7	6641.8	6641.8	6790.6	7031.5	7394.6	7484.9	7608.9	7500.8	7105.9	6431.1
42.5°	7236.9	7206.8	7167.9	7298.9	7500.8	7784.2	7858.6	7825.0	7736.4	7585.9	7157.2
45°	7807.2	7761.2	7787.8	7867.5	7984.4	8119.0	8147.3	7991.4	7950.7	7993.2	7757.7
47.5°	8241.2	8209.3	8274.8	8386.4	8482.1	8501.5	8482.1	8266.0	8262.4	8413.0	8173.9
50°	8386.4	8390.0	8570.6	8815.0	8969.1	8985.1	8958.5	8710.5	8676.9	8721.2	8398.8
52.5°	8400.6	8414.8	8678.7	9144.5	9564.2	9755.5	9734.3	9466.8	9137.4	9089.6	8738.9
55°	8058.8	8142.0	8510.4	9190.5	10083.2	10694.2	10765.1	10253.2	9764.4	9723.6	9470.4
57.5°	6441.7	6611.7	7056.3	8025.1	9504.0	10791.6	10975.8	10607.4	10134.5	9961.0	9273.8
60°	3850.5	4061.3	4488.1	5676.6	7233.4	8869.9	9187.0	9238.3	9020.5	8519.3	7114.7
62.5°	1652.5	1634.8	2160.8	3071.2	4302.1	5637.6	5781.0	6004.2	6193.7	5669.5	4318.1
65°	566.8	616.4	857.2	1385.0	2153.7	2617.8	2745.3	2945.4	3214.6	2653.2	1581.6
67.5°	350.7	371.9	494.2	818.3	1161.9	1144.2	1087.5	1055.6	1027.3	703.1	433.9
70°	255.0	272.8	347.1	563.2	781.1	549.1	476.4	386.1	428.6	395.0	308.2
72.5°	171.8	186.0	239.1	341.8	400.3	267.4	248.0	281.6	340.1	324.1	251.5
75°	102.7	111.6	136.4	166.5	162.9	138.2	139.9	198.4	260.4	242.6	178.9
77.5°	70.8	74.4	90.3	108.0	79.7	42.5	39.0	54.9	88.6	88.6	60.2
80°	17.7	23.0	23.0	14.2	12.4	10.6	10.6	15.9	24.8	17.7	8.9
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	3.5	3.5
85°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	3.5
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5
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°	2554.0	2554.0	2554.0	2554.0	2554.0	2554.0	2554.0	2554.0	2554.0	2554.0	2554.0
2.5°	2566.4	2545.1	2559.3	2555.8	2566.4	2569.9	2554.0	2550.5	2552.2	2531.0	2523.9
5°	2591.2	2566.4	2573.5	2566.4	2578.8	2589.4	2584.1	2591.2	2600.1	2584.1	2577.0
7.5°	2644.3	2619.5	2617.8	2607.1	2624.9	2631.9	2630.2	2649.6	2667.4	2656.7	2646.1
10°	2736.4	2702.8	2699.2	2690.4	2695.7	2701.0	2681.5	2685.1	2701.0	2688.6	2683.3
12.5°	2849.8	2809.1	2800.2	2778.9	2778.9	2752.4	2709.9	2701.0	2713.4	2704.6	2695.7
15°	2972.0	2917.1	2902.9	2865.7	2830.3	2780.7	2736.4	2725.8	2734.7	2724.0	2717.0
17.5°	3108.4	3046.4	3000.3	2934.8	2856.9	2798.4	2748.8	2725.8	2711.6	2690.4	2688.6
20°	3243.0	3161.5	3083.6	2979.1	2876.4	2787.8	2706.3	2646.1	2594.7	2562.9	2550.5
22.5°	3398.8	3278.4	3152.7	3005.6	2858.6	2724.0	2580.6	2477.8	2389.3	2359.2	2345.0
25°	3565.3	3409.5	3221.7	3030.4	2798.4	2582.3	2387.5	2235.2	2118.3	2079.3	2063.4
27.5°	3749.5	3535.2	3292.6	3025.1	2674.4	2380.4	2121.8	1932.3	1817.2	1781.8	1794.2
30°	3983.3	3698.2	3381.1	2970.2	2488.5	2097.0	1794.2	1634.8	1548.0	1514.3	1516.1
32.5°	4295.0	3932.0	3510.4	2853.3	2249.4	1774.7	1509.0	1392.1	1333.7	1289.4	1285.9
35°	4741.4	4288.0	3630.9	2665.6	1958.9	1487.8	1294.7	1202.6	1121.1	1069.8	1078.6
37.5°	5276.3	4736.1	3696.4	2412.3	1633.0	1264.6	1133.5	1039.7	947.6	871.4	880.3
40°	5910.3	5322.3	3691.1	2079.3	1335.5	1112.3	998.9	889.1	774.0	704.9	712.0
42.5°	6617.0	5876.7	3576.0	1726.9	1107.0	988.3	869.6	731.5	619.9	577.4	579.2
45°	7229.9	6326.6	3374.0	1362.0	931.6	867.9	735.0	593.3	543.7	513.6	511.9
47.5°	7683.3	6656.0	3085.4	1071.5	789.9	758.1	604.0	531.3	492.4	467.6	464.0
50°	7936.5	6771.1	2766.5	839.5	667.7	642.9	540.2	481.8	455.2	439.2	435.7
52.5°	8276.6	6909.3	2538.1	662.4	559.7	526.0	497.7	448.1	430.4	418.0	412.7
55°	8815.0	7176.7	2339.7	526.0	465.8	458.7	469.4	428.6	418.0	398.5	391.4
57.5°	8308.5	6447.0	1817.2	407.4	393.2	419.8	453.4	409.1	382.6	364.9	357.8
60°	5846.6	4286.2	913.9	327.7	350.7	393.2	426.8	370.2	343.6	347.1	343.6
62.5°	3223.5	2144.9	410.9	274.5	304.6	347.1	364.9	320.6	302.9	333.0	338.3
65°	1053.8	729.7	237.3	212.5	240.9	283.4	315.3	304.6	301.1	336.5	347.1
67.5°	324.1	240.9	161.2	152.3	166.5	209.0	265.7	329.4	354.2	364.9	370.2
70°	242.6	189.5	138.2	129.3	136.4	159.4	224.9	274.5	258.6	260.4	256.8
72.5°	194.8	150.5	118.7	113.4	113.4	109.8	118.7	148.8	168.3	177.1	177.1
75°	136.4	106.3	90.3	83.2	65.5	53.1	47.8	47.8	42.5	40.7	39.0
77.5°	46.1	39.0	35.4	28.3	19.5	15.9	14.2	12.4	8.9	5.3	3.5
80°	7.1	5.3	3.5	3.5	3.5	1.8	1.8	1.8	0.0	0.0	0.0
82.5°	3.5	3.5	3.5	3.5	3.5	1.8	1.8	0.0	0.0	0.0	0.0
85°	3.5	3.5	3.5	3.5	3.5	1.8	1.8	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	3.5	3.5	1.8	1.8	1.8	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)