

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: P638551

Luminaire Tested: GWS-SA4F-722-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638551
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-SA4F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15476.3 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

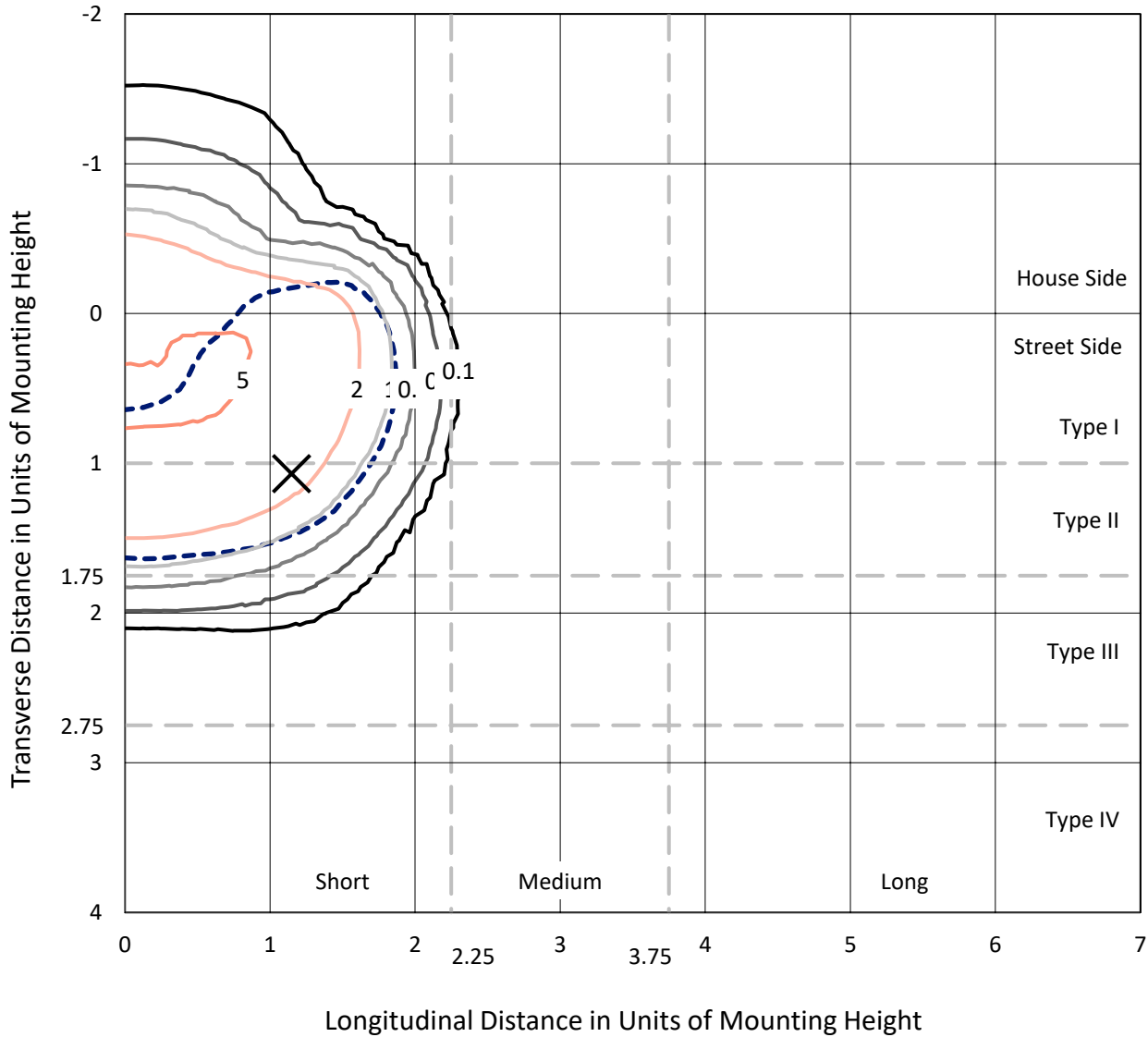
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

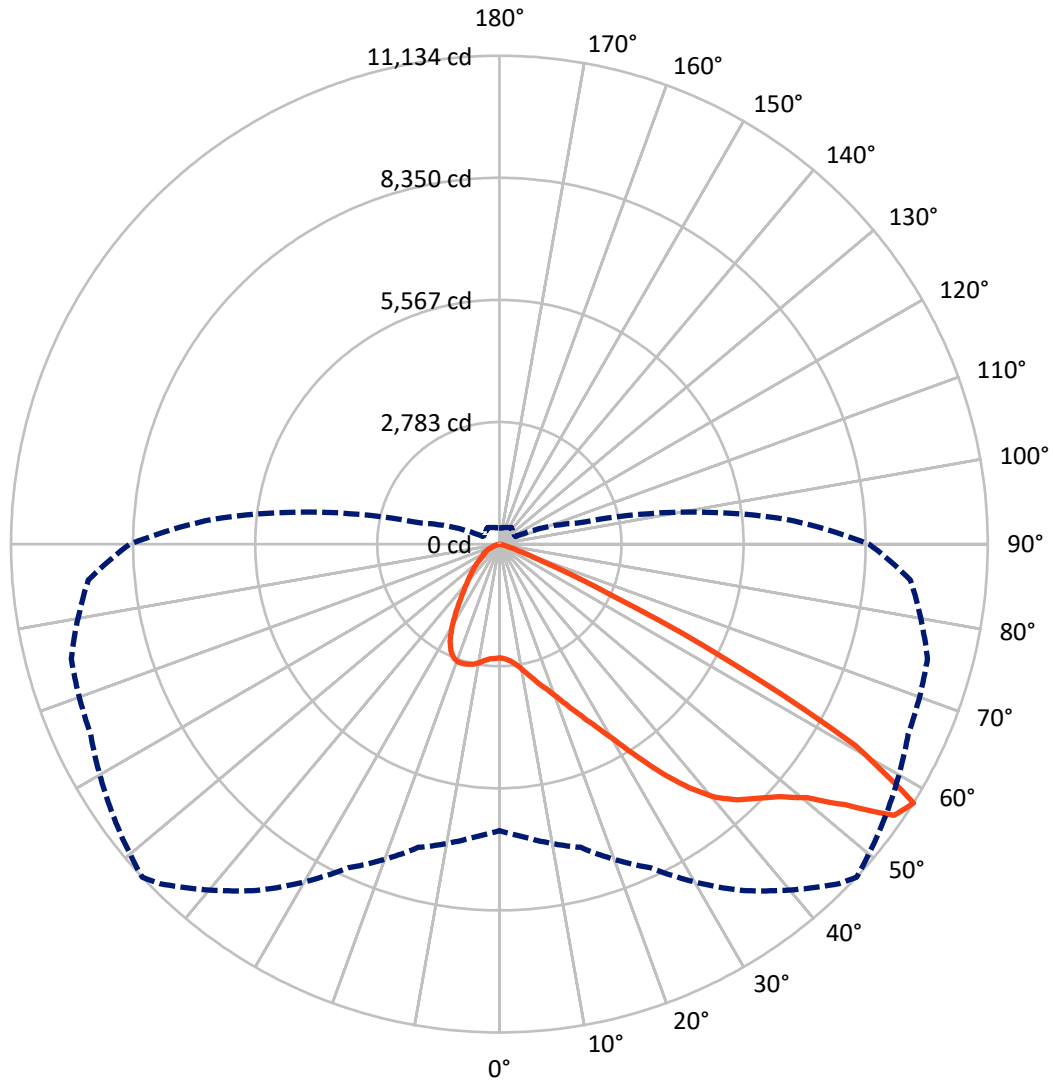
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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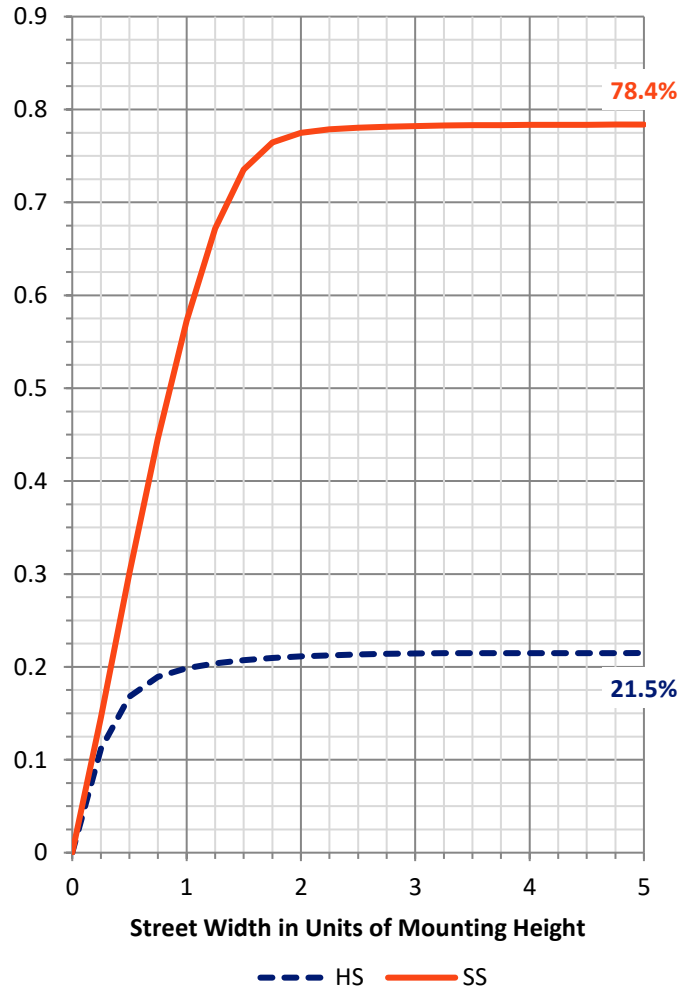
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3357.6	0.0	3357.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	12118.7	0.0	12118.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	15476.3	0.0	15476.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.8	1.7
10°-20°	869.7	5.6
20°-30°	1614.8	10.4
30°-40°	2585.1	16.7
40°-50°	3778.8	24.4
50°-60°	4663.6	30.1
60°-70°	1558.3	10.1
70°-80°	145.2	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°	15476.3	100.0
0°-180°	15476.3	100.0

Coefficient of Utilization



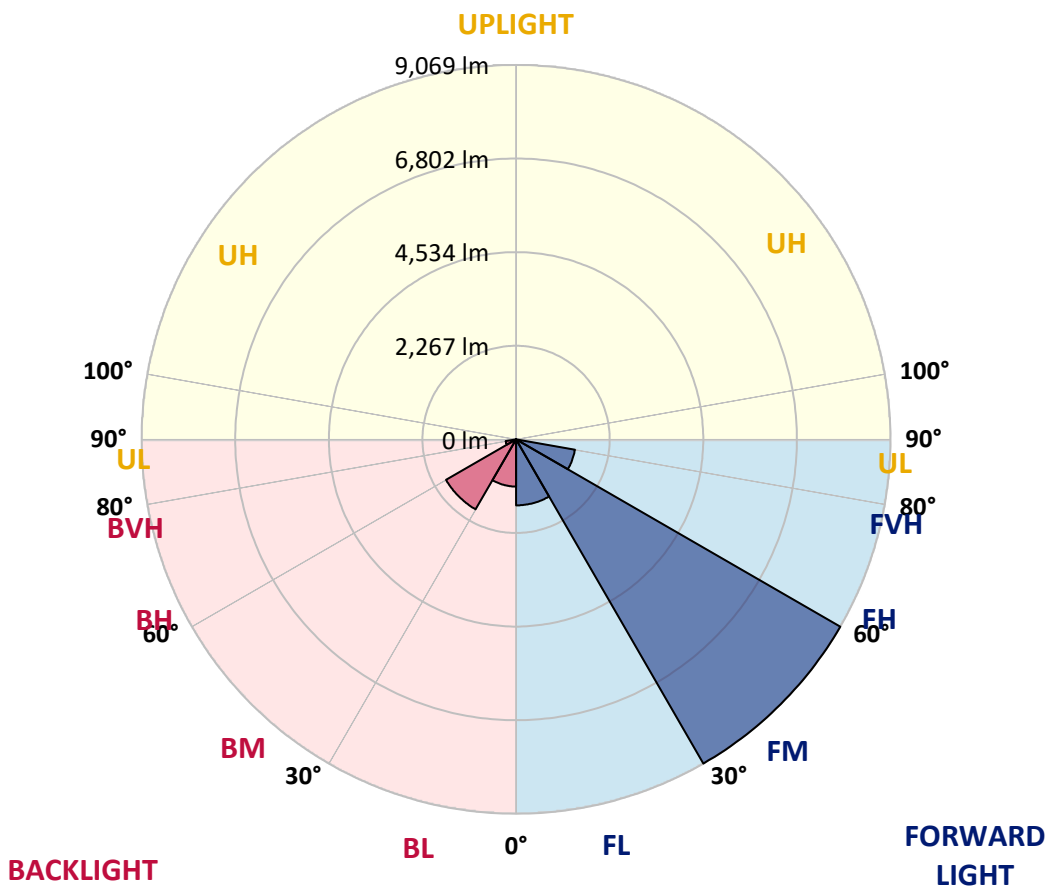
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1599.4	10.3			
FM (30°-60°)	9069.0	58.6			
FH (60°-80°)	1448.3	9.4			G1/1800
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	1142.9	7.4	B3/2500		
BM (30°-60°)	1958.5	12.7	B2/2500		
BH (60°-80°)	255.3	1.6	B1/500		G1/500
BVH (80°-90°)	1.0	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°	2590.7	2590.7	2590.7	2590.7	2590.7	2590.7	2590.7	2590.7	2590.7	2590.7	2590.7
2.5°	2617.7	2615.9	2614.1	2624.9	2621.3	2619.5	2623.1	2623.1	2623.1	2612.3	2590.7
5°	2680.6	2680.6	2678.8	2689.6	2680.6	2675.2	2677.0	2677.0	2669.8	2650.0	2623.1
7.5°	2779.4	2775.8	2772.2	2783.0	2774.0	2772.2	2775.8	2765.0	2752.4	2720.1	2682.4
10°	2921.3	2921.3	2915.9	2926.7	2919.5	2915.9	2915.9	2908.8	2885.4	2835.1	2779.4
12.5°	3117.2	3108.2	3095.6	3086.6	3083.0	3081.2	3083.0	3072.2	3047.1	2982.4	2905.2
15°	3331.0	3323.8	3304.0	3289.6	3269.9	3266.3	3277.1	3268.1	3242.9	3154.9	3045.3
17.5°	3600.5	3609.4	3559.1	3528.6	3471.1	3467.5	3471.1	3485.5	3467.5	3354.3	3194.4
20°	3830.4	3837.6	3799.9	3778.3	3726.2	3702.9	3710.1	3733.4	3713.6	3580.7	3357.9
22.5°	4076.6	4085.6	4046.0	4001.1	3977.8	3977.8	4004.7	4037.0	4010.1	3835.8	3544.8
25°	4371.2	4378.4	4346.1	4286.8	4245.5	4297.6	4337.1	4423.3	4378.4	4141.2	3765.7
27.5°	4709.0	4710.8	4664.1	4603.0	4581.4	4678.4	4718.0	4850.9	4833.0	4484.4	3999.3
30°	5070.1	5071.9	5061.1	5019.8	5000.0	5127.6	5181.5	5373.7	5361.2	4910.2	4317.3
32.5°	5445.6	5445.6	5465.4	5461.8	5485.1	5693.5	5779.8	5999.0	5986.4	5431.2	4712.6
35°	5822.9	5824.7	5858.8	5945.1	6042.1	6318.8	6432.0	6697.9	6669.1	6054.7	5217.4
37.5°	6252.3	6234.3	6281.0	6410.4	6626.0	6945.8	7053.6	7306.9	7274.6	6692.5	5876.8
40°	6769.7	6737.4	6737.4	6888.3	7132.6	7501.0	7592.6	7718.3	7608.8	7208.1	6523.6
42.5°	7341.1	7310.5	7271.0	7403.9	7608.8	7896.2	7971.7	7937.5	7847.7	7695.0	7260.2
45°	7919.6	7872.9	7899.8	7980.7	8099.2	8235.8	8264.5	8106.4	8065.1	8108.2	7869.3
47.5°	8359.7	8327.4	8393.9	8507.1	8604.1	8623.9	8604.1	8384.9	8381.3	8534.0	8291.5
50°	8507.1	8510.7	8693.9	8941.9	9098.2	9114.3	9087.4	8835.9	8801.7	8846.6	8519.6
52.5°	8521.4	8535.8	8803.5	9276.0	9701.8	9895.9	9874.3	9603.0	9268.8	9220.3	8864.6
55°	8174.7	8259.1	8632.8	9322.7	10228.2	10848.1	10920.0	10400.7	9904.9	9863.5	9606.6
57.5°	6534.4	6706.8	7157.8	8140.6	9640.7	10946.9	11133.8	10760.1	10280.4	10104.3	9407.2
60°	3905.9	4119.7	4552.7	5758.2	7337.5	8997.6	9319.2	9371.3	9150.3	8641.8	7217.1
62.5°	1676.3	1658.3	2191.9	3115.4	4364.0	5718.7	5864.2	6090.6	6282.8	5751.0	4380.2
65°	574.9	625.2	869.6	1405.0	2184.7	2655.4	2784.8	2987.8	3260.9	2691.4	1604.4
67.5°	355.7	377.3	501.3	830.0	1178.6	1160.6	1103.1	1070.8	1042.0	713.3	440.2
70°	258.7	276.7	352.1	571.3	792.3	557.0	483.3	391.7	434.8	400.6	312.6
72.5°	174.3	188.6	242.5	346.8	406.0	271.3	251.5	285.7	345.0	328.8	255.1
75°	104.2	113.2	138.3	168.9	165.3	140.1	141.9	201.2	264.1	246.1	181.5
77.5°	71.9	75.5	91.6	109.6	80.8	43.1	39.5	55.7	89.8	89.8	61.1
80°	18.0	23.4	23.4	14.4	12.6	10.8	10.8	16.2	25.2	18.0	9.0
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6
85°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6
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°	2590.7	2590.7	2590.7	2590.7	2590.7	2590.7	2590.7	2590.7	2590.7	2590.7	2590.7
2.5°	2603.3	2581.8	2596.1	2592.5	2603.3	2606.9	2590.7	2587.2	2589.0	2567.4	2560.2
5°	2628.5	2603.3	2610.5	2603.3	2615.9	2626.7	2621.3	2628.5	2637.5	2621.3	2614.1
7.5°	2682.4	2657.2	2655.4	2644.6	2662.6	2669.8	2668.0	2687.8	2705.7	2695.0	2684.2
10°	2775.8	2741.7	2738.1	2729.1	2734.5	2739.9	2720.1	2723.7	2739.9	2727.3	2721.9
12.5°	2890.8	2849.5	2840.5	2818.9	2818.9	2792.0	2748.9	2739.9	2752.4	2743.5	2734.5
15°	3014.8	2959.1	2944.7	2907.0	2871.0	2820.7	2775.8	2765.0	2774.0	2763.2	2756.0
17.5°	3153.1	3090.2	3043.5	2977.0	2898.0	2838.7	2788.4	2765.0	2750.6	2729.1	2727.3
20°	3289.6	3207.0	3127.9	3021.9	2917.7	2827.9	2745.3	2684.2	2632.1	2599.7	2587.2
22.5°	3447.7	3325.6	3198.0	3048.9	2899.8	2763.2	2617.7	2513.5	2423.7	2393.1	2378.7
25°	3616.6	3458.5	3268.1	3074.0	2838.7	2619.5	2421.9	2267.4	2148.8	2109.3	2093.1
27.5°	3803.5	3586.1	3339.9	3068.7	2712.9	2414.7	2152.4	1960.1	1843.3	1807.4	1820.0
30°	4040.6	3751.4	3429.8	3013.0	2524.3	2127.2	1820.0	1658.3	1570.3	1536.1	1537.9
32.5°	4356.8	3988.5	3560.9	2894.4	2281.7	1800.2	1530.7	1412.2	1352.9	1308.0	1304.4
35°	4809.6	4349.7	3683.1	2703.9	1987.1	1509.2	1313.3	1219.9	1137.3	1085.2	1094.2
37.5°	5352.2	4804.2	3749.6	2447.0	1656.5	1282.8	1149.8	1054.6	961.2	883.9	892.9
40°	5995.4	5398.9	3744.2	2109.3	1354.7	1128.3	1013.3	901.9	785.1	715.1	722.2
42.5°	6712.2	5961.2	3627.4	1751.7	1122.9	1002.5	882.1	742.0	628.8	585.7	587.5
45°	7333.9	6417.6	3422.6	1381.6	945.0	880.4	745.6	601.9	551.6	521.0	519.2
47.5°	7793.8	6751.8	3129.7	1087.0	801.3	769.0	612.7	539.0	499.5	474.3	470.7
50°	8050.7	6868.5	2806.3	851.6	677.3	652.2	548.0	488.7	461.7	445.6	442.0
52.5°	8395.7	7008.7	2574.6	671.9	567.7	533.6	504.9	454.5	436.6	424.0	418.6
55°	8941.9	7280.0	2373.4	533.6	472.5	465.3	476.1	434.8	424.0	404.2	397.1
57.5°	8428.0	6539.8	1843.3	413.2	398.9	425.8	459.9	415.0	388.1	370.1	362.9
60°	5930.7	4347.9	927.1	332.4	355.7	398.9	433.0	375.5	348.5	352.1	348.5
62.5°	3269.9	2175.7	416.8	278.5	309.0	352.1	370.1	325.2	307.2	337.8	343.2
65°	1069.0	740.2	240.7	215.6	244.3	287.5	319.8	309.0	305.4	341.4	352.1
67.5°	328.8	244.3	163.5	154.5	168.9	212.0	269.5	334.2	359.3	370.1	375.5
70°	246.1	192.2	140.1	131.2	138.3	161.7	228.2	278.5	262.3	264.1	260.5
72.5°	197.6	152.7	120.4	115.0	115.0	111.4	120.4	150.9	170.7	179.7	179.7
75°	138.3	107.8	91.6	84.4	66.5	53.9	48.5	48.5	43.1	41.3	39.5
77.5°	46.7	39.5	35.9	28.7	19.8	16.2	14.4	12.6	9.0	5.4	3.6
80°	7.2	5.4	3.6	3.6	3.6	1.8	1.8	1.8	0.0	0.0	0.0
82.5°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	0.0	0.0	0.0	0.0
85°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	0.0	0.0	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	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)