

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: P638991

Luminaire Tested: GWS-SA4F-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638991
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-830-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, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16690.6 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

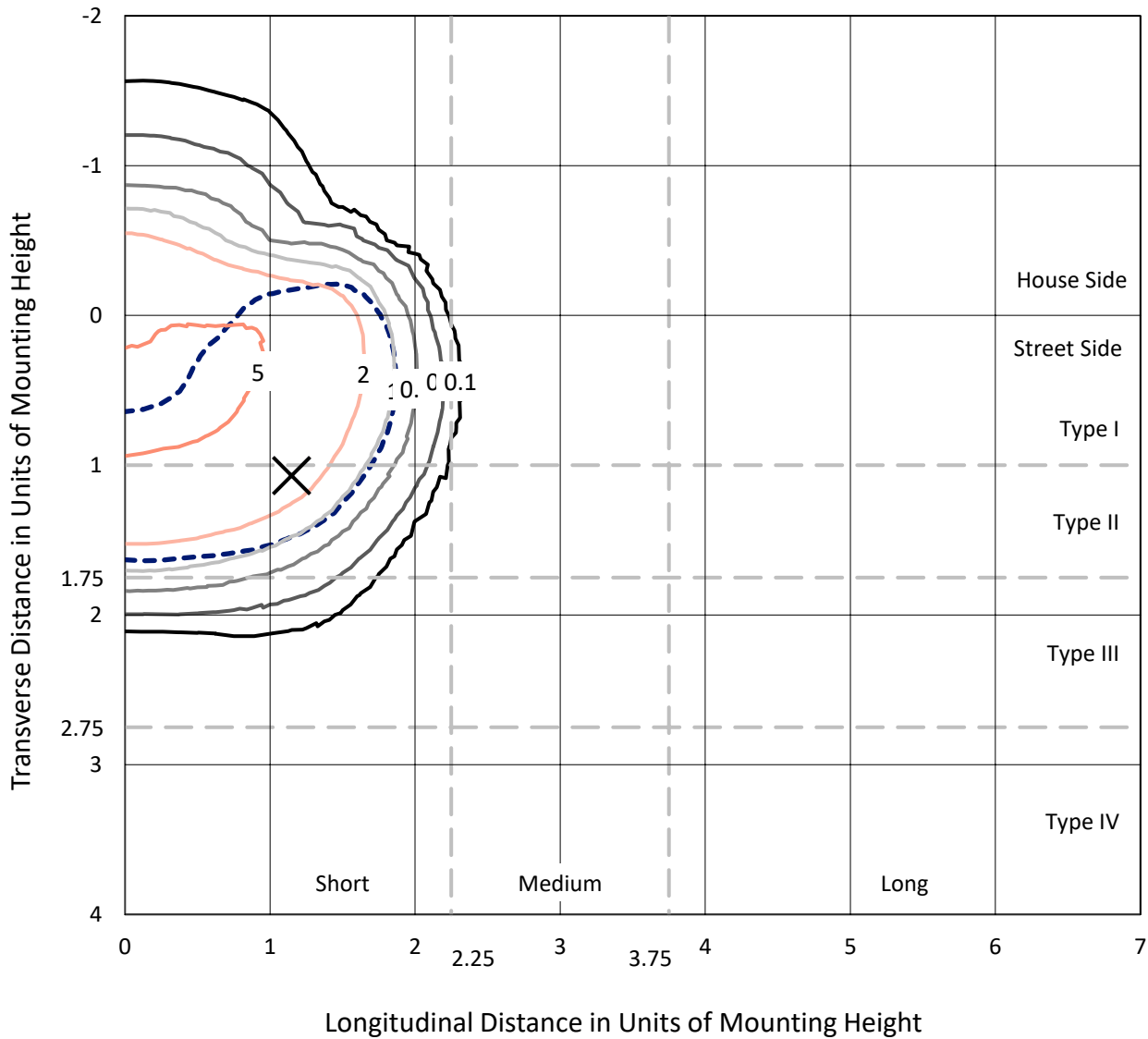
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

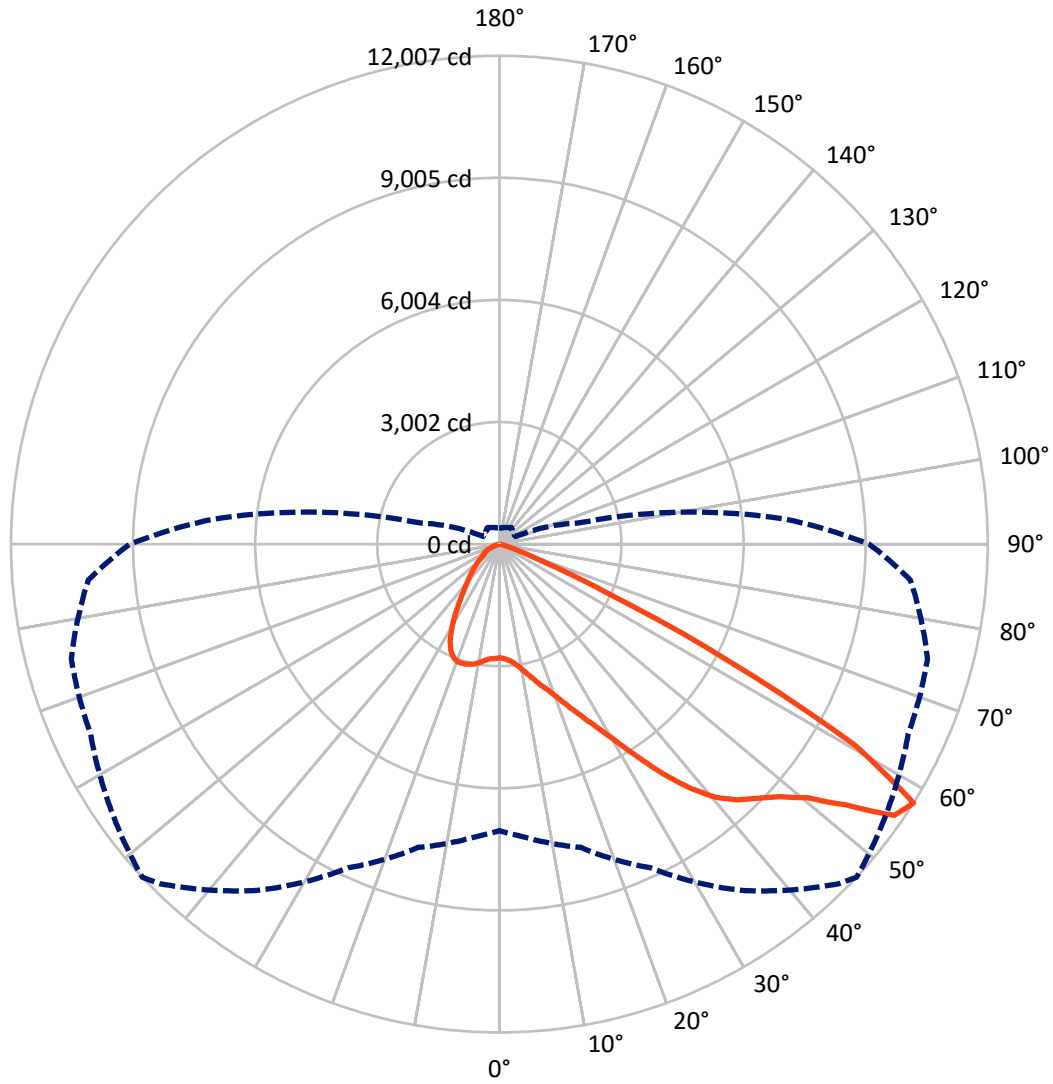
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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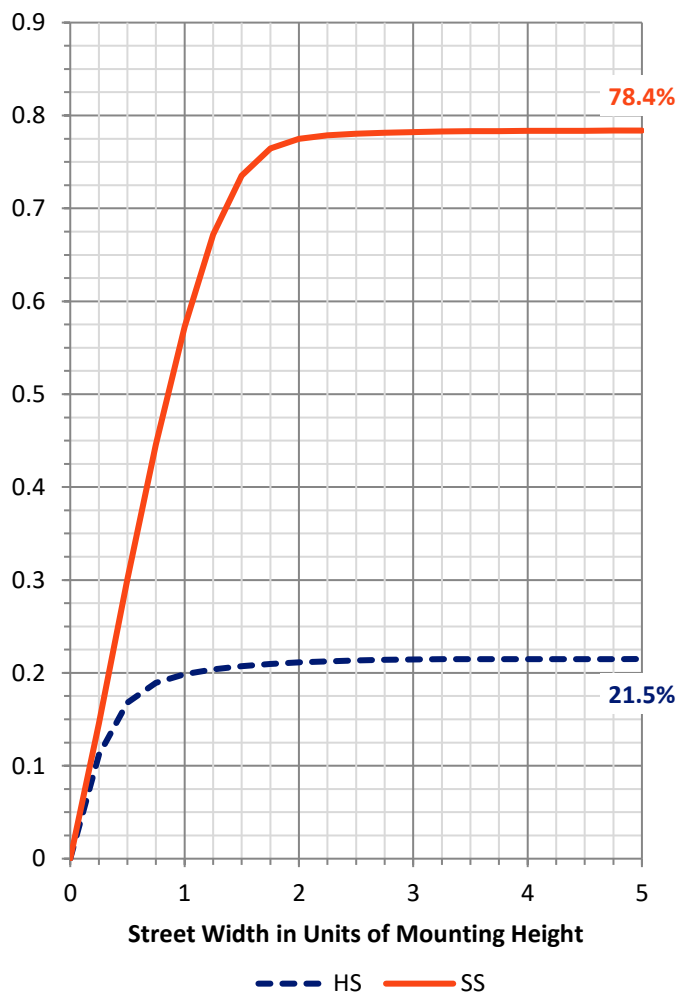
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3621.0	0.0	3621.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13069.6	0.0	13069.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	16690.6	0.0	16690.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	1.7
10°-20°	937.9	5.6
20°-30°	1741.5	10.4
30°-40°	2787.9	16.7
40°-50°	4075.2	24.4
50°-60°	5029.6	30.1
60°-70°	1680.6	10.1
70°-80°	156.6	0.9
80°-90°	3.2	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°	16690.6	100.0
0°-180°	16690.6	100.0

Coefficient of Utilization



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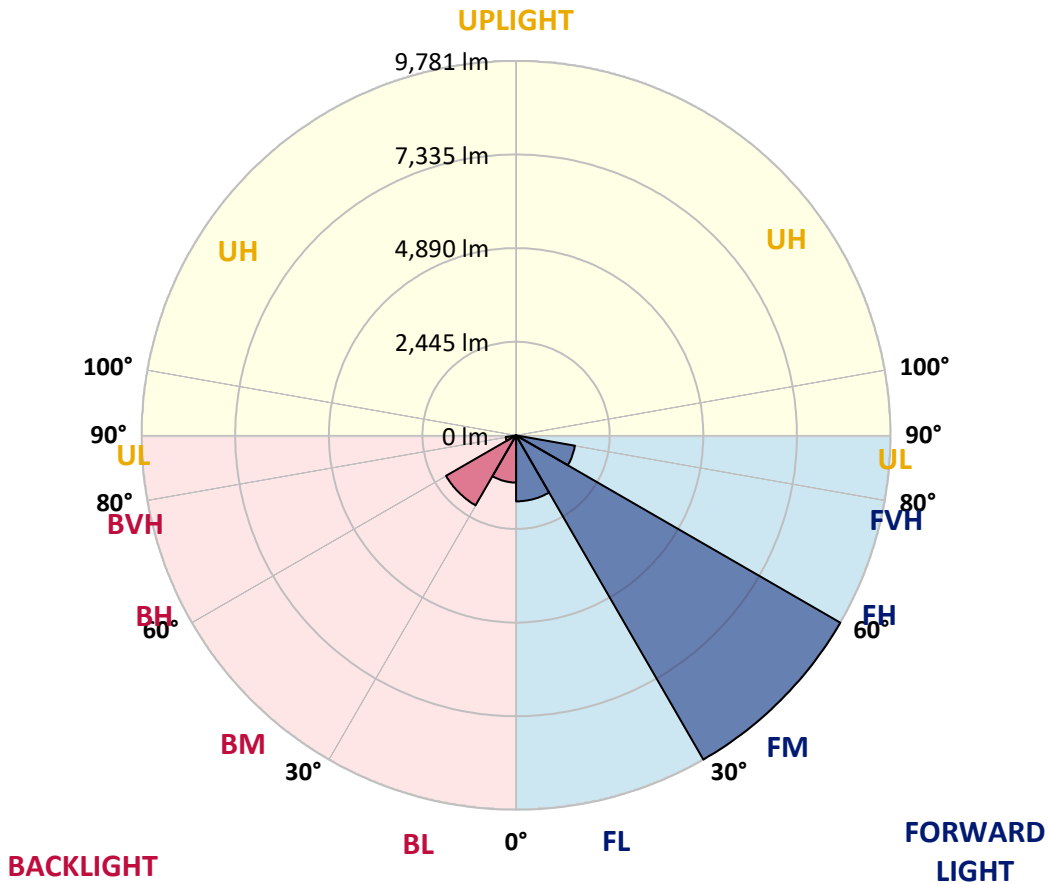
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.9	10.3			
FM (30°-60°)	9780.6	58.6			
FH (60°-80°)	1561.9	9.4			G1/1800
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1232.5	7.4	B3/2500		
BM (30°-60°)	2112.2	12.7	B2/2500		
BH (60°-80°)	275.3	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°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	2823.1	2821.2	2819.2	2830.8	2827.0	2825.0	2828.9	2828.9	2828.9	2817.3	2794.0
5°	2890.9	2890.9	2889.0	2900.6	2890.9	2885.1	2887.0	2887.0	2879.3	2858.0	2828.9
7.5°	2997.5	2993.6	2989.7	3001.3	2991.7	2989.7	2993.6	2982.0	2968.4	2933.5	2892.8
10°	3150.5	3150.5	3144.7	3156.4	3148.6	3144.7	3144.7	3137.0	3111.8	3057.5	2997.5
12.5°	3361.7	3352.1	3338.5	3328.8	3324.9	3323.0	3324.9	3313.3	3286.2	3216.4	3133.1
15°	3592.3	3584.6	3563.3	3547.8	3526.4	3522.6	3534.2	3524.5	3497.4	3402.4	3284.2
17.5°	3883.0	3892.6	3838.4	3805.5	3743.5	3739.6	3743.5	3759.0	3739.6	3617.5	3445.1
20°	4131.0	4138.7	4098.0	4074.8	4018.6	3993.4	4001.2	4026.3	4005.0	3861.6	3621.4
22.5°	4396.4	4406.1	4363.5	4315.0	4289.9	4289.9	4318.9	4353.8	4324.7	4136.8	3822.9
25°	4714.2	4721.9	4687.1	4623.1	4578.6	4634.7	4677.4	4770.4	4721.9	4466.2	4061.2
27.5°	5078.5	5080.4	5030.0	4964.1	4940.9	5045.5	5088.1	5231.5	5212.2	4836.3	4313.1
30°	5467.9	5469.9	5458.2	5413.7	5392.4	5529.9	5588.0	5795.4	5781.8	5295.5	4656.1
32.5°	5872.9	5872.9	5894.2	5890.3	5915.5	6140.3	6233.3	6469.7	6456.1	5857.4	5082.3
35°	6279.8	6281.7	6318.5	6411.5	6516.2	6814.6	6936.6	7223.4	7192.4	6529.7	5626.8
37.5°	6742.9	6723.5	6773.9	6913.4	7145.9	7490.8	7607.0	7880.2	7845.4	7217.6	6337.9
40°	7300.9	7266.0	7266.0	7428.8	7692.3	8089.5	8188.3	8323.9	8205.8	7773.7	7035.4
42.5°	7917.0	7884.1	7841.5	7984.9	8205.8	8515.8	8597.1	8560.3	8463.5	8298.8	7829.9
45°	8541.0	8490.6	8519.6	8606.8	8734.7	8882.0	8913.0	8742.5	8697.9	8744.4	8486.7
47.5°	9015.7	8980.8	9052.5	9174.6	9279.2	9300.5	9279.2	9042.8	9038.9	9203.6	8942.0
50°	9174.6	9178.4	9376.1	9643.5	9812.0	9829.5	9800.4	9529.1	9492.3	9540.8	9188.1
52.5°	9190.1	9205.6	9494.3	10003.8	10463.1	10672.3	10649.1	10356.5	9996.1	9943.8	9560.1
55°	8816.1	8907.2	9310.2	10054.2	11030.8	11699.3	11776.8	11216.8	10682.0	10637.4	10360.4
57.5°	7047.1	7233.1	7719.4	8779.3	10397.2	11805.8	12007.3	11604.3	11087.0	10897.1	10145.3
60°	4212.4	4442.9	4909.9	6210.0	7913.2	9703.5	10050.3	10106.5	9868.2	9319.9	7783.4
62.5°	1807.8	1788.4	2363.9	3359.8	4706.4	6167.4	6324.3	6568.5	6775.8	6202.3	4723.9
65°	620.0	674.3	937.8	1515.2	2356.1	2863.8	3003.3	3222.2	3516.8	2902.5	1730.3
67.5°	383.6	406.9	540.6	895.2	1271.1	1251.7	1189.7	1154.8	1123.8	769.2	474.7
70°	279.0	298.4	379.8	616.2	854.5	600.7	521.2	422.4	468.9	432.1	337.1
72.5°	187.9	203.4	261.6	374.0	437.9	292.6	271.3	308.1	372.0	354.6	275.1
75°	112.4	122.1	149.2	182.1	178.3	151.1	153.1	217.0	284.8	265.5	195.7
77.5°	77.5	81.4	98.8	118.2	87.2	46.5	42.6	60.1	96.9	96.9	65.9
80°	19.4	25.2	25.2	15.5	13.6	11.6	11.6	17.4	27.1	19.4	9.7
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.9	3.9	3.9	3.9
85°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	3.9	3.9	3.9
87.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.9	3.9
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°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	2807.6	2784.3	2799.8	2796.0	2807.6	2811.5	2794.0	2790.1	2792.1	2768.8	2761.1
5°	2834.7	2807.6	2815.3	2807.6	2821.2	2832.8	2827.0	2834.7	2844.4	2827.0	2819.2
7.5°	2892.8	2865.7	2863.8	2852.2	2871.5	2879.3	2877.3	2898.7	2918.0	2906.4	2894.8
10°	2993.6	2956.8	2952.9	2943.2	2949.0	2954.8	2933.5	2937.4	2954.8	2941.3	2935.5
12.5°	3117.6	3073.0	3063.4	3040.1	3040.1	3011.0	2964.5	2954.8	2968.4	2958.7	2949.0
15°	3251.3	3191.2	3175.7	3135.0	3096.3	3042.0	2993.6	2982.0	2991.7	2980.0	2972.3
17.5°	3400.5	3332.7	3282.3	3210.6	3125.4	3061.4	3007.2	2982.0	2966.5	2943.2	2941.3
20°	3547.8	3458.6	3373.4	3259.0	3146.7	3049.8	2960.7	2894.8	2838.6	2803.7	2790.1
22.5°	3718.3	3586.5	3448.9	3288.1	3127.3	2980.0	2823.1	2710.7	2613.8	2580.9	2565.4
25°	3900.4	3729.9	3524.5	3315.2	3061.4	2825.0	2611.9	2445.3	2317.4	2274.7	2257.3
27.5°	4101.9	3867.5	3602.0	3309.4	2925.8	2604.1	2321.2	2113.9	1988.0	1949.2	1962.8
30°	4357.7	4045.7	3698.9	3249.4	2722.3	2294.1	1962.8	1788.4	1693.5	1656.7	1658.6
32.5°	4698.7	4301.5	3840.3	3121.5	2460.8	1941.5	1650.8	1523.0	1459.0	1410.6	1406.7
35°	5187.0	4690.9	3972.1	2916.1	2143.0	1627.6	1416.4	1315.6	1226.5	1170.3	1180.0
37.5°	5772.1	5181.2	4043.8	2639.0	1786.5	1383.4	1240.1	1137.4	1036.6	953.3	963.0
40°	6465.8	5822.5	4038.0	2274.7	1461.0	1216.8	1092.8	972.7	846.7	771.2	778.9
42.5°	7238.9	6429.0	3912.0	1889.2	1211.0	1081.2	951.4	800.2	678.2	631.7	633.6
45°	7909.3	6921.1	3691.1	1490.0	1019.2	949.4	804.1	649.1	594.8	561.9	560.0
47.5°	8405.3	7281.5	3375.3	1172.3	864.2	829.3	660.7	581.3	538.7	511.5	507.7
50°	8682.4	7407.5	3026.5	918.4	730.5	703.4	591.0	527.0	498.0	480.5	476.7
52.5°	9054.4	7558.6	2776.6	724.7	612.3	575.5	544.5	490.2	470.8	457.3	451.5
55°	9643.5	7851.2	2559.6	575.5	509.6	501.8	513.5	468.9	457.3	436.0	428.2
57.5°	9089.3	7052.9	1988.0	445.6	430.1	459.2	496.0	447.6	418.5	399.1	391.4
60°	6396.0	4689.0	999.8	358.5	383.6	430.1	467.0	405.0	375.9	379.8	375.9
62.5°	3526.4	2346.4	449.5	300.3	333.3	379.8	399.1	350.7	331.3	364.3	370.1
65°	1152.9	798.3	259.6	232.5	263.5	310.0	344.9	333.3	329.4	368.1	379.8
67.5°	354.6	263.5	176.3	166.6	182.1	228.6	290.6	360.4	387.5	399.1	405.0
70°	265.5	207.3	151.1	141.4	149.2	174.4	246.1	300.3	282.9	284.8	281.0
72.5°	213.1	164.7	129.8	124.0	124.0	120.1	129.8	162.8	184.1	193.8	193.8
75°	149.2	116.3	98.8	91.1	71.7	58.1	52.3	52.3	46.5	44.6	42.6
77.5°	50.4	42.6	38.8	31.0	21.3	17.4	15.5	13.6	9.7	5.8	3.9
80°	7.8	5.8	3.9	3.9	3.9	1.9	1.9	1.9	0.0	0.0	0.0
82.5°	3.9	3.9	3.9	3.9	3.9	1.9	1.9	0.0	0.0	0.0	0.0
85°	3.9	3.9	3.9	3.9	3.9	1.9	1.9	0.0	0.0	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	1.9	1.9	1.9	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)