

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: P638773

Luminaire Tested: GWS-SA4F-740-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24979.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

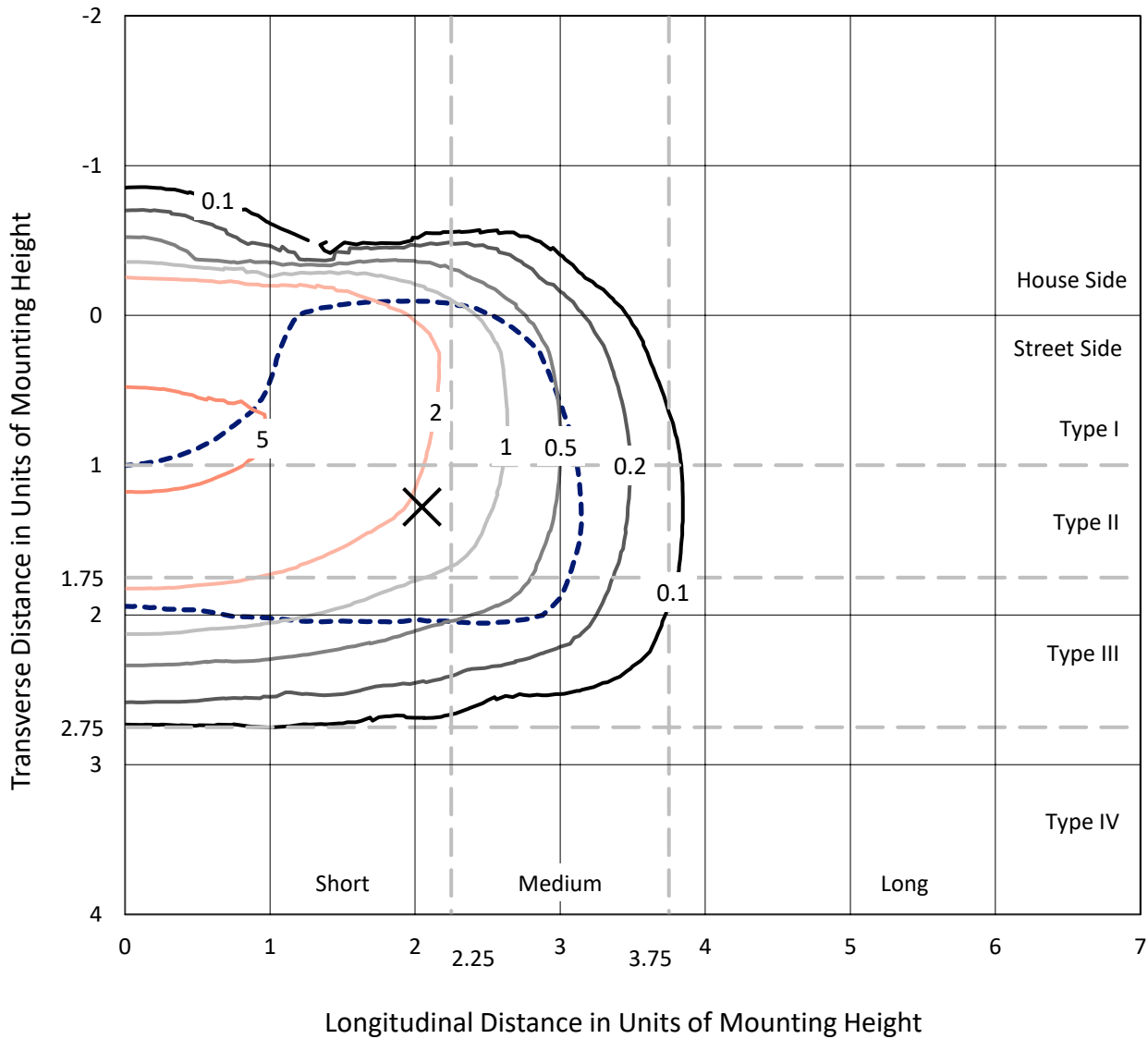
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

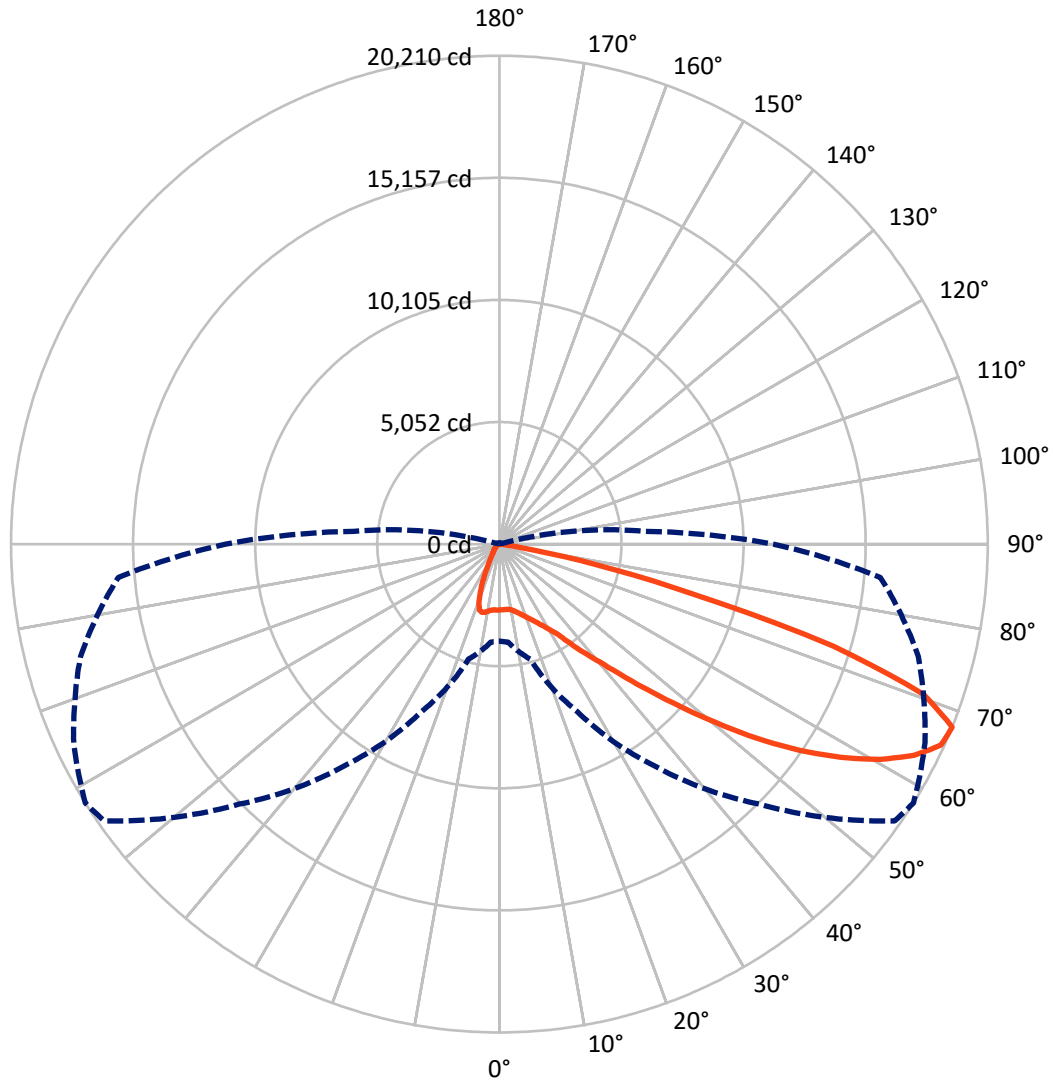
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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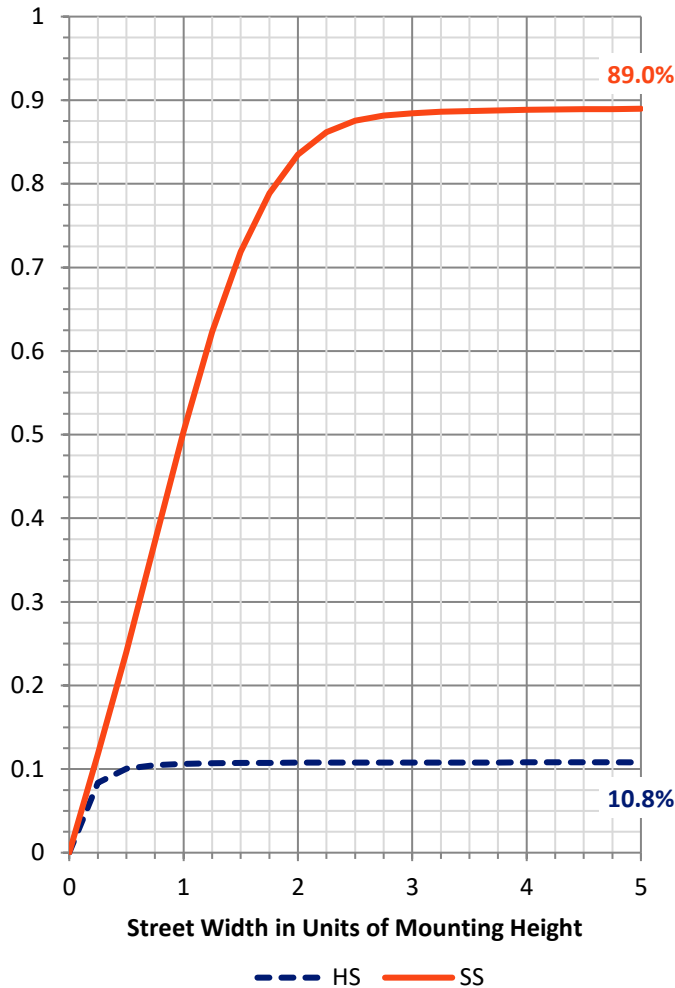
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2725.2	0.0	2725.2
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	22253.9	0.0	22253.9
	% Fixture	89.1	0.0	89.1
Total	Lumens	24979.1	0.0	24979.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.7	1.0
10°-20°	717.9	2.9
20°-30°	1253.2	5.0
30°-40°	2238.0	9.0
40°-50°	4090.6	16.4
50°-60°	6803.1	27.2
60°-70°	7389.3	29.6
70°-80°	2169.6	8.7
80°-90°	61.8	0.2
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°	24979.1	100.0
0°-180°	24979.1	100.0

Coefficient of Utilization



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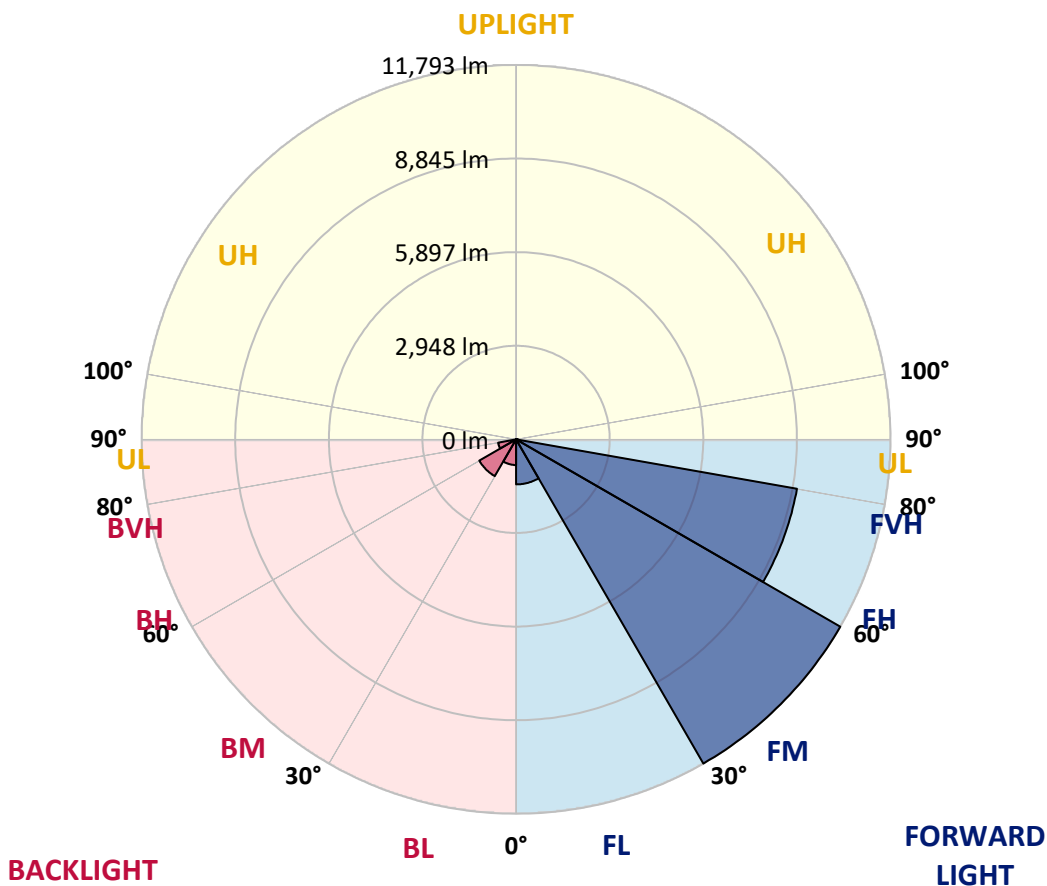
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.4	5.7			
FM (30°-60°)	11793.1	47.2			
FH (60°-80°)	8983.6	36.0			G4/12000
FVH (80°-90°)	58.7	0.2			G1/100
BL (0°-30°)	808.4	3.2	B2/1000		
BM (30°-60°)	1338.5	5.4	B2/2500		
BH (60°-80°)	575.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0
2.5°	2670.8	2665.9	2665.9	2685.4	2687.8	2697.6	2719.5	2722.0	2734.2	2729.3	2712.2
5°	2531.7	2534.2	2548.8	2582.9	2612.2	2648.8	2702.5	2714.7	2741.5	2756.1	2746.4
7.5°	2402.5	2404.9	2426.9	2480.5	2536.6	2609.8	2697.6	2722.0	2775.6	2814.7	2817.1
10°	2353.7	2351.2	2373.2	2434.2	2507.3	2609.8	2736.6	2768.3	2848.8	2917.1	2929.3
12.5°	2368.3	2365.9	2387.8	2443.9	2524.4	2653.7	2804.9	2848.8	2951.2	3056.1	3078.1
15°	2426.9	2424.4	2439.0	2485.4	2573.2	2707.3	2892.7	2958.6	3087.8	3214.7	3248.8
17.5°	2602.5	2590.3	2575.6	2580.5	2631.7	2770.8	3004.9	3085.4	3246.4	3397.6	3426.9
20°	2914.7	2883.0	2843.9	2792.7	2768.3	2863.4	3134.2	3226.9	3422.0	3595.2	3600.0
22.5°	3385.4	3373.2	3283.0	3134.2	3029.3	3031.7	3285.4	3392.7	3631.7	3822.0	3795.2
25°	4041.5	4034.2	3895.2	3651.3	3378.1	3285.4	3478.1	3587.8	3880.5	4083.0	3997.6
27.5°	4856.1	4804.9	4641.5	4312.2	3904.9	3614.7	3722.0	3819.5	4143.9	4334.2	4173.2
30°	5565.9	5568.3	5414.7	5070.8	4612.2	4109.8	4019.5	4104.9	4385.4	4585.4	4390.3
32.5°	6248.8	6270.8	6102.5	5792.7	5290.3	4756.1	4446.4	4461.0	4695.2	4912.2	4675.7
35°	6883.0	6900.1	6783.0	6519.6	6051.3	5431.8	5041.5	5034.2	5161.0	5383.0	5073.2
37.5°	7592.8	7609.8	7495.2	7258.6	6819.6	6204.9	5717.1	5707.4	5758.6	5939.1	5585.4
40°	8348.9	8380.6	8253.7	8053.7	7634.2	7114.7	6502.5	6414.7	6363.5	6575.7	6248.8
42.5°	9114.7	9163.5	9119.6	8919.6	8561.1	8131.8	7522.0	7385.4	7275.7	7541.5	7195.2
45°	10065.9	10124.5	10105.0	9951.3	9673.3	9324.5	8748.9	8590.3	8539.1	8785.4	8373.2
47.5°	10980.6	11044.0	11114.7	11080.6	10883.0	10722.0	10083.0	9992.8	9978.1	10241.6	9602.5
50°	11661.1	11719.6	11990.4	12185.5	12319.6	12285.5	11731.8	11597.7	11575.7	11744.0	10900.1
52.5°	12148.9	12205.0	12578.2	13187.9	13680.6	13948.9	13390.4	13361.1	13241.6	13183.0	12114.7
55°	12526.9	12605.0	12997.7	13919.6	14912.3	15507.5	15158.7	15053.8	14746.5	14409.9	13241.6
57.5°	12602.6	12634.3	13187.9	14431.8	15868.4	16831.9	16831.9	16648.9	16056.2	15590.4	14544.0
60°	11924.5	12022.1	12770.8	14390.4	16278.2	17697.7	18219.7	18092.8	17292.8	16719.7	15797.7
62.5°	10419.6	10529.4	11441.6	13397.7	15868.4	17875.8	19270.9	19251.4	18348.9	17653.8	16836.7
65°	7990.3	8070.8	8865.9	11207.4	14136.7	17190.4	20022.1	20075.8	19183.1	18270.9	17195.3
67.5°	4014.7	4070.8	4929.3	7656.2	11205.0	15217.2	19970.9	20209.9	19436.8	17944.1	15827.0
70°	1402.5	1458.5	1863.4	3285.4	6819.6	11619.6	18244.1	18634.3	17946.5	15317.2	11675.7
72.5°	480.5	507.3	773.2	1219.5	2653.7	6887.9	13873.3	14461.1	13229.4	10283.0	6709.8
75°	273.2	290.2	414.6	661.0	1112.2	2265.9	7870.8	8231.8	7712.3	5604.9	2761.0
77.5°	185.4	200.0	258.5	375.6	614.6	729.3	3209.8	4041.5	3524.4	1829.3	704.9
80°	109.8	119.5	158.5	222.0	314.6	282.9	687.8	914.6	1178.1	546.3	212.2
82.5°	51.2	58.5	102.4	146.3	158.5	119.5	202.4	246.3	331.7	268.3	87.8
85°	0.0	0.0	34.1	61.0	58.5	34.1	56.1	61.0	90.2	134.1	34.1
87.5°	0.0	0.0	0.0	0.0	0.0	2.4	4.9	7.3	14.6	26.8	14.6
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°	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0
2.5°	2731.7	2714.7	2734.2	2724.4	2734.2	2731.7	2712.2	2700.0	2700.0	2678.1	2670.8
5°	2765.9	2748.8	2753.7	2731.7	2726.9	2714.7	2690.3	2680.5	2680.5	2658.6	2651.2
7.5°	2841.5	2814.7	2809.8	2765.9	2746.4	2712.2	2668.3	2651.2	2648.8	2626.9	2619.5
10°	2961.0	2929.3	2907.3	2851.2	2795.1	2726.9	2634.2	2556.1	2512.2	2453.7	2448.8
12.5°	3107.3	3068.3	3034.2	2948.8	2856.1	2702.5	2429.3	2143.9	1968.3	1829.3	1839.0
15°	3270.8	3234.2	3180.5	3051.2	2861.0	2461.0	1890.3	1451.2	1236.6	1122.0	1117.1
17.5°	3448.8	3395.2	3307.3	3131.7	2707.3	1880.5	1229.3	868.3	756.1	717.1	707.3
20°	3614.7	3548.8	3439.1	3148.8	2263.4	1273.2	768.3	673.2	653.7	641.5	641.5
22.5°	3790.3	3707.4	3543.9	3017.1	1682.9	814.6	653.7	631.7	617.1	600.0	597.6
25°	3968.3	3861.0	3639.1	2673.2	1102.4	641.5	612.2	587.8	561.0	534.2	526.8
27.5°	4119.5	3980.5	3712.2	2161.0	707.3	578.1	558.5	517.1	480.5	451.2	446.3
30°	4300.0	4122.0	3743.9	1580.5	556.1	509.8	480.5	436.6	392.7	363.4	353.7
32.5°	4541.5	4346.4	3695.2	1029.3	492.7	448.8	402.4	351.2	307.3	275.6	270.7
35°	4917.1	4685.4	3470.8	656.1	446.3	387.8	331.7	278.1	241.5	217.1	212.2
37.5°	5375.7	5161.0	3102.5	492.7	400.0	336.6	270.7	219.5	192.7	175.6	170.7
40°	6056.2	5756.1	2646.4	431.7	353.7	285.4	222.0	180.5	161.0	146.3	141.5
42.5°	6939.1	6458.6	2122.0	392.7	309.8	239.0	180.5	148.8	131.7	122.0	119.5
45°	7970.8	7144.0	1568.3	353.7	268.3	197.6	148.8	122.0	109.8	102.4	100.0
47.5°	9026.9	7744.0	1082.9	312.2	229.3	163.4	124.4	104.9	95.1	85.4	82.9
50°	10153.7	8251.3	739.0	270.7	195.1	134.1	107.3	95.1	82.9	75.6	73.2
52.5°	10980.6	8439.1	514.6	234.1	165.9	114.6	95.1	85.4	75.6	65.9	63.4
55°	11744.0	8434.2	390.2	197.6	141.5	100.0	85.4	75.6	65.9	58.5	56.1
57.5°	12505.0	8368.4	307.3	168.3	122.0	90.2	75.6	65.9	61.0	51.2	48.8
60°	12997.7	8119.6	239.0	141.5	104.9	78.0	65.9	58.5	51.2	43.9	41.5
62.5°	13258.7	7773.2	182.9	112.2	85.4	68.3	58.5	51.2	43.9	36.6	34.1
65°	12905.0	7158.6	143.9	87.8	65.9	58.5	48.8	41.5	34.1	26.8	24.4
67.5°	11336.7	6036.6	112.2	70.7	51.2	43.9	41.5	34.1	24.4	19.5	17.1
70°	8012.3	4134.2	87.8	53.7	39.0	34.1	31.7	26.8	19.5	14.6	12.2
72.5°	4397.6	2085.4	63.4	39.0	29.3	26.8	24.4	22.0	17.1	12.2	12.2
75°	1692.7	573.2	46.3	26.8	19.5	19.5	17.1	17.1	14.6	9.8	9.8
77.5°	441.5	170.7	29.3	17.1	12.2	12.2	12.2	9.8	9.8	7.3	7.3
80°	141.5	56.1	17.1	12.2	9.8	7.3	7.3	4.9	7.3	4.9	4.9
82.5°	46.3	19.5	9.8	9.8	7.3	4.9	4.9	2.4	2.4	0.0	0.0
85°	17.1	9.8	7.3	4.9	4.9	4.9	2.4	0.0	0.0	0.0	0.0
87.5°	9.8	4.9	4.9	4.9	4.9	2.4	0.0	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)