

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: P642678

Luminaire Tested: GWS-SA6D-735-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642678  
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-SA6D-735-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

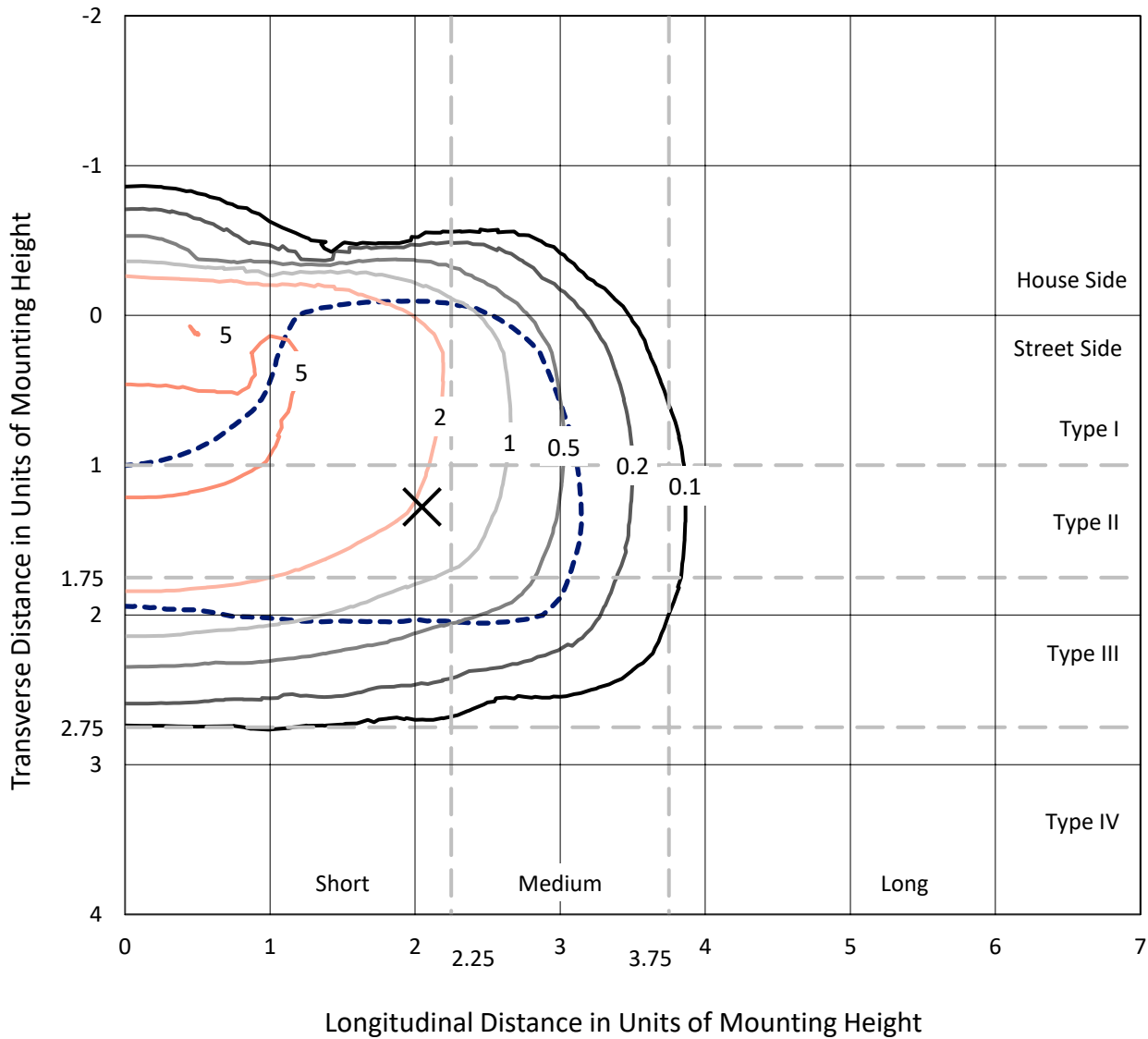
Lumens per Lamp: N/A  
Luminaire Lumens: 25938 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

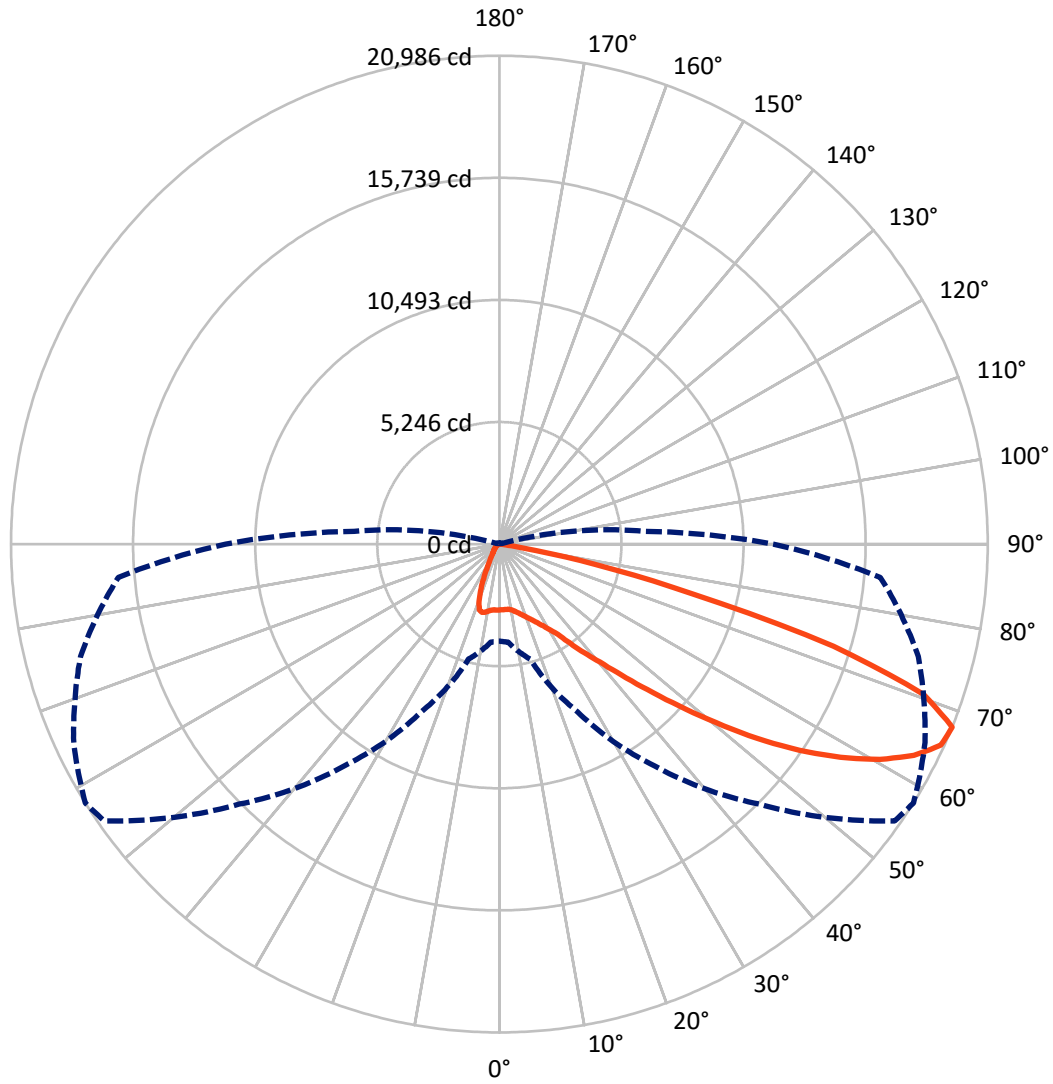
✕ Max cd  
 - - - 1/2 Max cd



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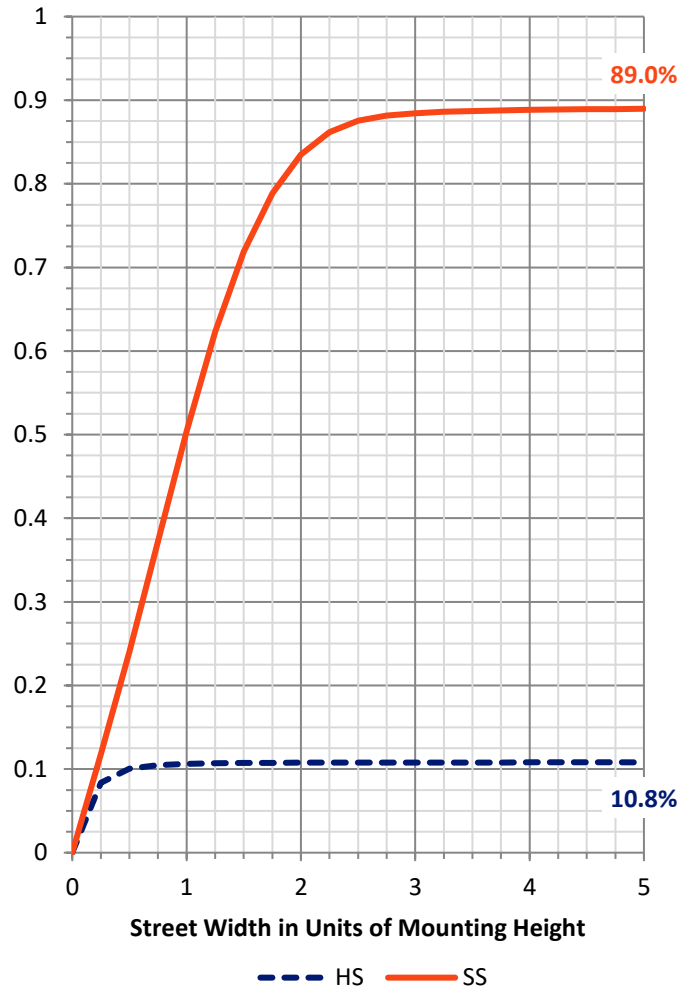
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2829.8	0.0	2829.8
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	23108.2	0.0	23108.2
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	25938.0	0.0	25938.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.5	1.0
10°-20°	745.5	2.9
20°-30°	1301.3	5.0
30°-40°	2323.9	9.0
40°-50°	4247.6	16.4
50°-60°	7064.2	27.2
60°-70°	7673.0	29.6
70°-80°	2252.9	8.7
80°-90°	64.2	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°	25938.0	100.0
0°-180°	25938.0	100.0

**Coefficient of Utilization**

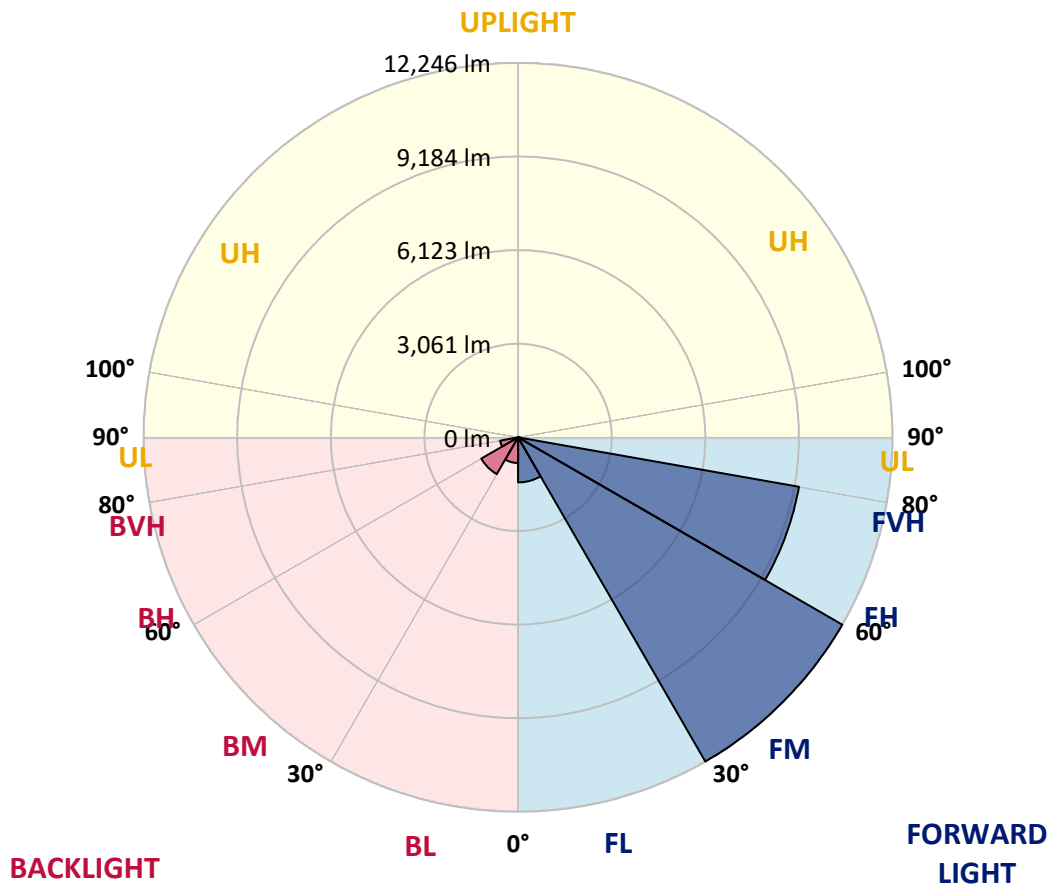


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1472.9	5.7			
FM (30°-60°)	12245.9	47.2			
FH (60°-80°)	9328.5	36.0			G4/12000
FVH (80°-90°)	61.0	0.2			G1/100
BL (0°-30°)	839.4	3.2	B2/1000		
BM (30°-60°)	1389.9	5.4	B2/2500		
BH (60°-80°)	597.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.2	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°	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5
2.5°	2773.3	2768.2	2768.2	2788.5	2791.0	2801.1	2823.9	2826.5	2839.1	2834.1	2816.3
5°	2628.9	2631.5	2646.6	2682.1	2712.5	2750.5	2806.2	2818.9	2846.7	2861.9	2851.8
7.5°	2494.7	2497.2	2520.0	2575.7	2634.0	2710.0	2801.1	2826.5	2882.2	2922.7	2925.2
10°	2444.0	2441.5	2464.3	2527.6	2603.6	2710.0	2841.7	2874.6	2958.2	3029.1	3041.7
12.5°	2459.2	2456.7	2479.5	2537.7	2621.3	2755.6	2912.6	2958.2	3064.5	3173.4	3196.2
15°	2520.0	2517.5	2532.7	2580.8	2672.0	2811.3	3003.8	3072.1	3206.4	3338.1	3373.5
17.5°	2702.4	2689.7	2674.5	2679.6	2732.8	2877.1	3120.3	3203.8	3371.0	3528.0	3558.4
20°	3026.5	2993.6	2953.1	2899.9	2874.6	2973.4	3254.5	3350.7	3553.3	3733.2	3738.2
22.5°	3515.4	3502.7	3409.0	3254.5	3145.6	3148.1	3411.5	3523.0	3771.2	3968.7	3940.8
25°	4196.6	4189.0	4044.7	3791.4	3507.8	3411.5	3611.6	3725.6	4029.5	4239.7	4151.1
27.5°	5042.6	4989.4	4819.7	4477.8	4054.8	3753.4	3864.9	3966.2	4303.0	4500.6	4333.4
30°	5779.6	5782.1	5622.5	5265.4	4789.3	4267.6	4173.9	4262.5	4553.8	4761.4	4558.8
32.5°	6488.7	6511.5	6336.8	6015.1	5493.4	4938.7	4617.1	4632.3	4875.4	5100.8	4855.1
35°	7147.2	7164.9	7043.4	6769.8	6283.6	5640.3	5235.0	5227.4	5359.1	5589.6	5268.0
37.5°	7884.2	7902.0	7782.9	7537.2	7081.4	6443.1	5936.6	5926.5	5979.6	6167.1	5799.8
40°	8669.4	8702.3	8570.6	8362.9	7927.3	7387.8	6752.1	6660.9	6607.8	6828.1	6488.7
42.5°	9464.6	9515.3	9469.7	9262.0	8889.7	8443.9	7810.8	7668.9	7555.0	7831.0	7471.4
45°	10452.4	10513.1	10492.9	10333.3	10044.6	9682.4	9084.7	8920.1	8866.9	9122.7	8694.7
47.5°	11402.1	11468.0	11541.4	11505.9	11300.8	11133.6	10470.1	10376.4	10361.2	10634.7	9971.1
50°	12108.7	12169.5	12450.6	12653.3	12792.5	12757.1	12182.2	12042.9	12020.1	12194.8	11318.5
52.5°	12615.3	12673.5	13061.0	13694.2	14205.8	14484.4	13904.4	13874.0	13749.9	13689.1	12579.8
55°	13007.8	13088.9	13496.6	14454.0	15484.8	16102.8	15740.6	15631.7	15312.6	14963.1	13749.9
57.5°	13086.3	13119.3	13694.2	14985.8	16477.6	17478.0	17478.0	17288.1	16672.6	16188.9	15102.4
60°	12382.3	12483.6	13261.1	14942.8	16903.1	18377.1	18919.1	18787.4	17956.7	17361.5	16404.1
62.5°	10819.6	10933.6	11880.8	13912.0	16477.6	18562.0	20010.7	19990.4	19053.3	18331.5	17483.1
65°	8297.0	8380.6	9206.3	11637.6	14679.4	17850.3	20790.7	20846.5	19919.5	18972.3	17855.4
67.5°	4168.8	4227.0	5118.5	7950.1	11635.1	15801.4	20737.6	20985.8	20182.9	18632.9	16434.5
70°	1456.3	1514.5	1935.0	3411.5	7081.4	12065.7	18944.4	19349.6	18635.4	15905.2	12123.9
72.5°	498.9	526.8	802.9	1266.3	2755.6	7152.3	14405.9	15016.2	13737.2	10677.8	6967.4
75°	283.7	301.4	430.6	686.4	1154.9	2352.9	8172.9	8547.8	8008.3	5820.1	2867.0
77.5°	192.5	207.7	268.5	390.0	638.2	757.3	3333.0	4196.6	3659.7	1899.5	731.9
80°	114.0	124.1	164.6	230.5	326.7	293.8	714.2	949.8	1223.3	567.3	220.3
82.5°	53.2	60.8	106.4	152.0	164.6	124.1	210.2	255.8	344.4	278.6	91.2
85°	0.0	0.0	35.5	63.3	60.8	35.5	58.3	63.3	93.7	139.3	35.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	5.1	7.6	15.2	27.9	15.2
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°	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5
2.5°	2836.6	2818.9	2839.1	2829.0	2839.1	2836.6	2816.3	2803.7	2803.7	2780.9	2773.3
5°	2872.1	2854.3	2859.4	2836.6	2831.5	2818.9	2793.5	2783.4	2783.4	2760.6	2753.0
7.5°	2950.6	2922.7	2917.6	2872.1	2851.8	2816.3	2770.7	2753.0	2750.5	2727.7	2720.1
10°	3074.7	3041.7	3019.0	2960.7	2902.4	2831.5	2735.3	2654.2	2608.7	2547.9	2542.8
12.5°	3226.6	3186.1	3150.6	3062.0	2965.8	2806.2	2522.5	2226.2	2043.9	1899.5	1909.6
15°	3396.3	3358.3	3302.6	3168.4	2970.8	2555.5	1962.8	1506.9	1284.1	1165.0	1160.0
17.5°	3581.2	3525.5	3434.3	3252.0	2811.3	1952.7	1276.5	901.6	785.1	744.6	734.5
20°	3753.4	3685.0	3571.1	3269.7	2350.3	1322.1	797.8	699.0	678.8	666.1	666.1
22.5°	3935.8	3849.7	3680.0	3132.9	1747.5	845.9	678.8	656.0	640.8	623.0	620.5
25°	4120.7	4009.2	3778.8	2775.8	1144.8	666.1	635.7	610.4	582.5	554.7	547.1
27.5°	4277.7	4133.3	3854.7	2244.0	734.5	600.2	580.0	536.9	498.9	468.5	463.5
30°	4465.1	4280.2	3887.7	1641.2	577.5	529.3	498.9	453.3	407.8	377.4	367.2
32.5°	4715.8	4513.2	3837.0	1068.8	511.6	466.0	417.9	364.7	319.1	286.2	281.1
35°	5105.9	4865.3	3604.0	681.3	463.5	402.7	344.4	288.7	250.7	225.4	220.3
37.5°	5582.0	5359.1	3221.6	511.6	415.4	349.5	281.1	227.9	200.1	182.4	177.3
40°	6288.6	5977.1	2748.0	448.3	367.2	296.3	230.5	187.4	167.2	152.0	146.9
42.5°	7205.5	6706.5	2203.4	407.8	321.6	248.2	187.4	154.5	136.8	126.6	124.1
45°	8276.8	7418.2	1628.5	367.2	278.6	205.1	154.5	126.6	114.0	106.4	103.8
47.5°	9373.4	8041.2	1124.5	324.2	238.1	169.7	129.2	108.9	98.8	88.6	86.1
50°	10543.5	8568.0	767.4	281.1	202.6	139.3	111.4	98.8	86.1	78.5	76.0
52.5°	11402.1	8763.1	534.4	243.1	172.2	119.0	98.8	88.6	78.5	68.4	65.8
55°	12194.8	8758.0	405.2	205.1	146.9	103.8	88.6	78.5	68.4	60.8	58.3
57.5°	12985.0	8689.6	319.1	174.8	126.6	93.7	78.5	68.4	63.3	53.2	50.7
60°	13496.6	8431.3	248.2	146.9	108.9	81.0	68.4	60.8	53.2	45.6	43.1
62.5°	13767.6	8071.6	190.0	116.5	88.6	70.9	60.8	53.2	45.6	38.0	35.5
65°	13400.4	7433.4	149.4	91.2	68.4	60.8	50.7	43.1	35.5	27.9	25.3
67.5°	11771.9	6268.4	116.5	73.4	53.2	45.6	43.1	35.5	25.3	20.3	17.7
70°	8319.8	4292.9	91.2	55.7	40.5	35.5	32.9	27.9	20.3	15.2	12.7
72.5°	4566.4	2165.4	65.8	40.5	30.4	27.9	25.3	22.8	17.7	12.7	12.7
75°	1757.7	595.2	48.1	27.9	20.3	20.3	17.7	17.7	15.2	10.1	10.1
77.5°	458.4	177.3	30.4	17.7	12.7	12.7	12.7	10.1	10.1	7.6	7.6
80°	146.9	58.3	17.7	12.7	10.1	7.6	7.6	5.1	7.6	5.1	5.1
82.5°	48.1	20.3	10.1	10.1	7.6	5.1	5.1	2.5	2.5	0.0	0.0
85°	17.7	10.1	7.6	5.1	5.1	5.1	2.5	0.0	0.0	0.0	0.0
87.5°	10.1	5.1	5.1	5.1	5.1	2.5	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)