

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: P640311

Luminaire Tested: GWS-SA5D-750-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640311  
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-SA5D-750-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

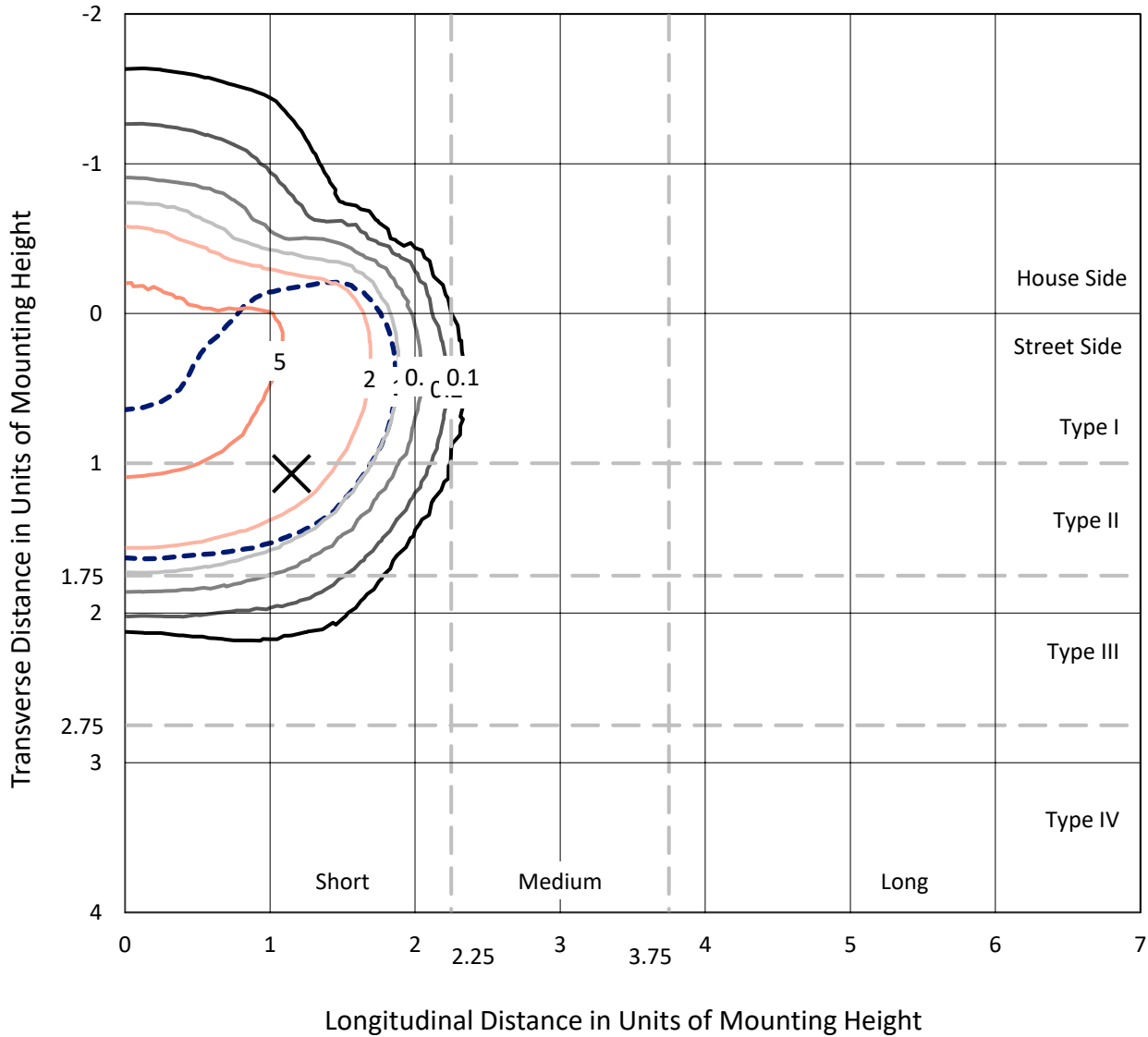
Lumens per Lamp: N/A  
Luminaire Lumens: 18975.8 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

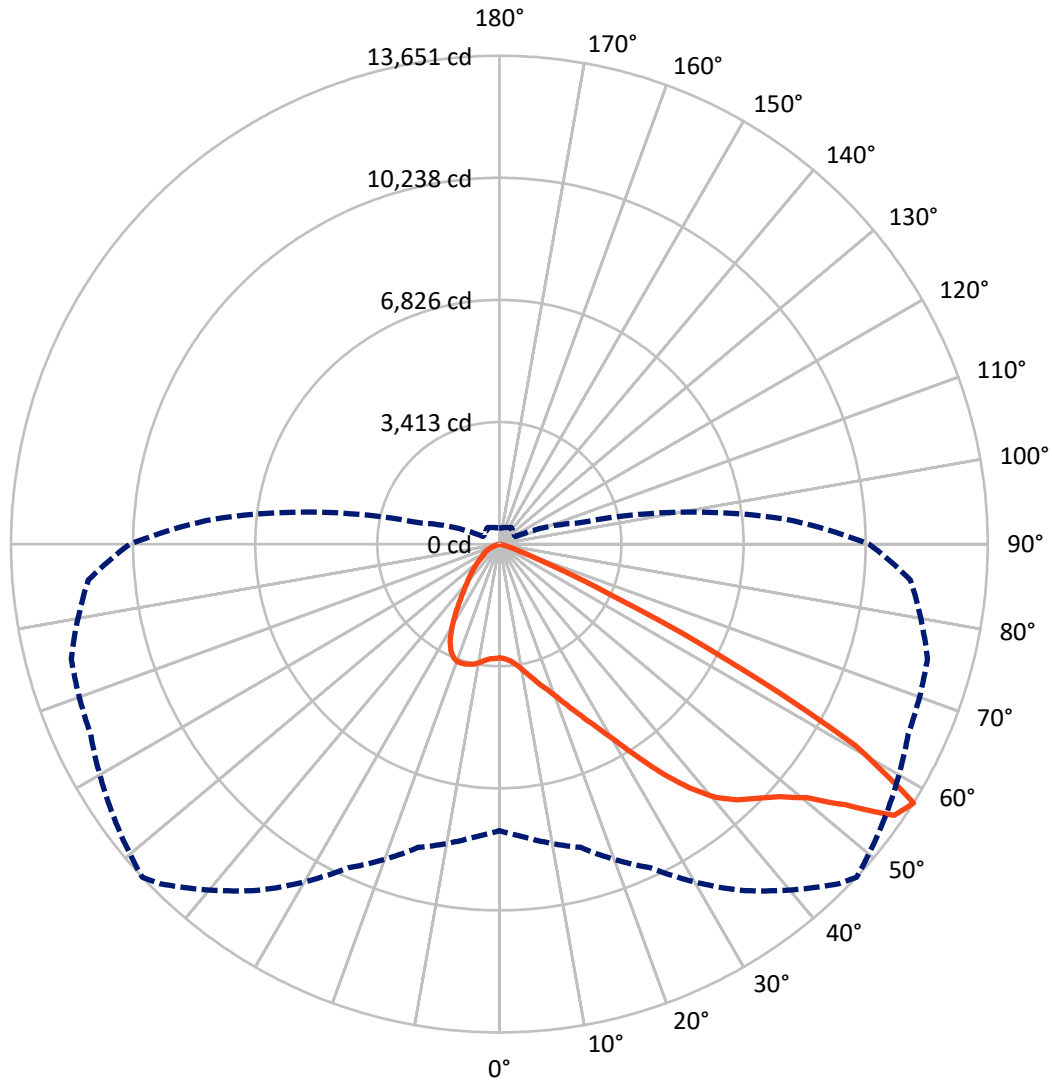
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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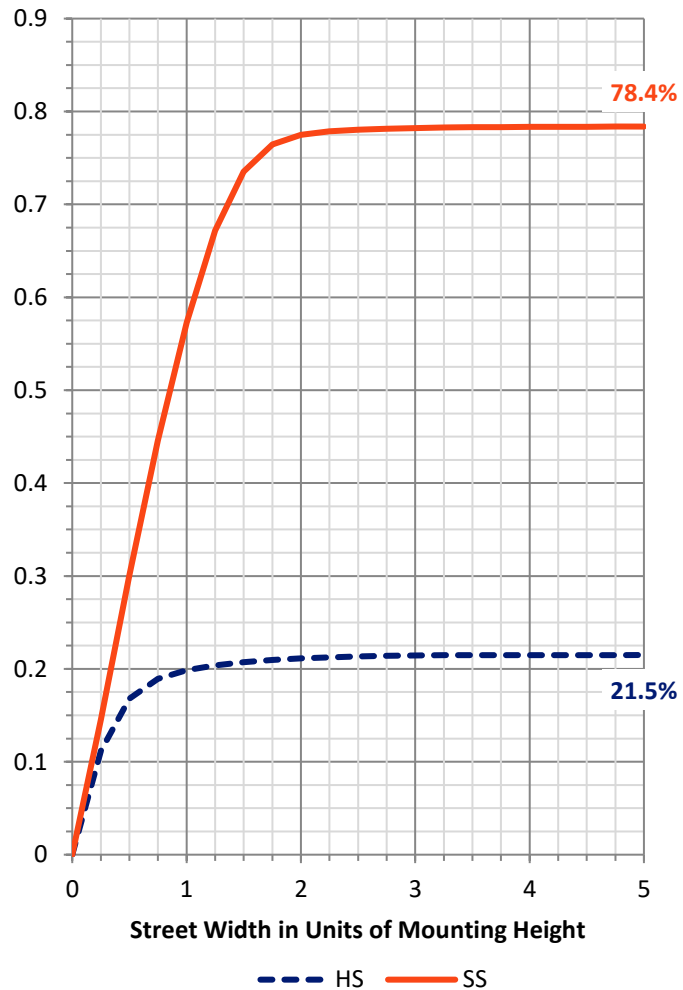
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4116.8	0.0	4116.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	14859.0	0.0	14859.0
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	18975.8	0.0	18975.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.0	1.7
10°-20°	1066.4	5.6
20°-30°	1980.0	10.4
30°-40°	3169.6	16.7
40°-50°	4633.2	24.4
50°-60°	5718.2	30.1
60°-70°	1910.7	10.1
70°-80°	178.0	0.9
80°-90°	3.7	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°	18975.8	100.0
0°-180°	18975.8	100.0

**Coefficient of Utilization**



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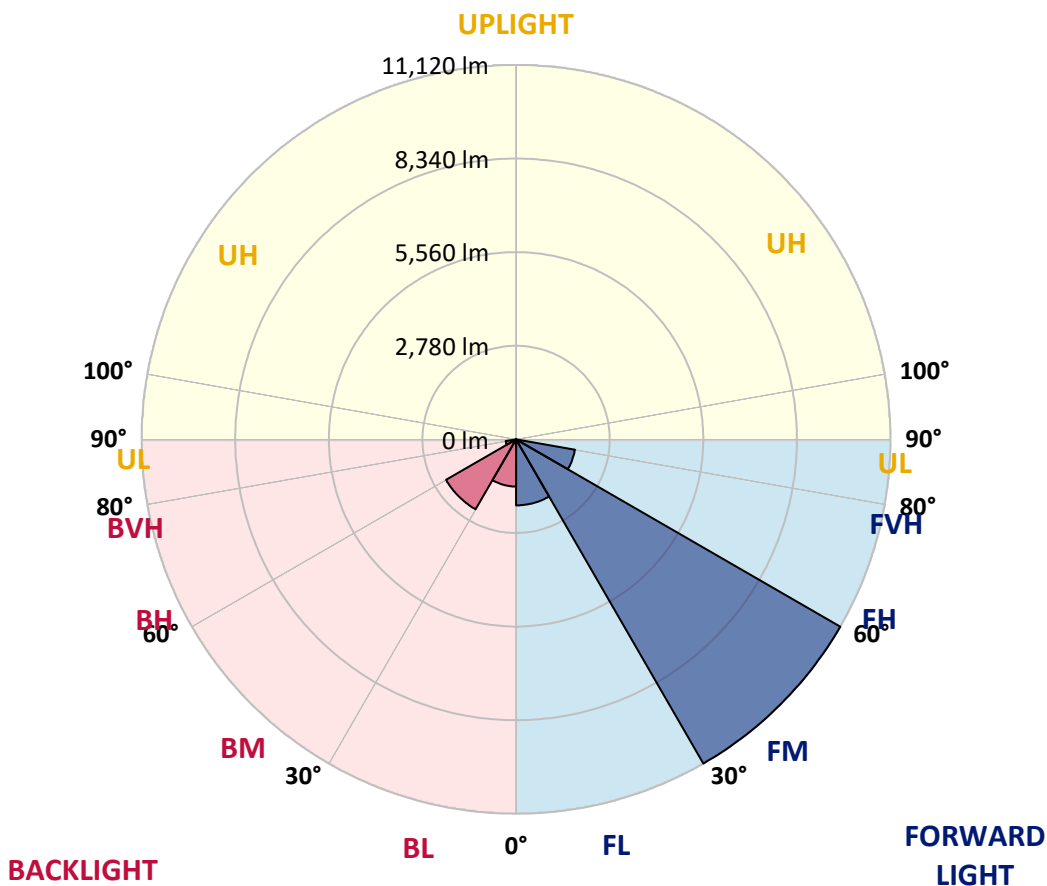
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1961.1	10.3			
FM (30°-60°)	11119.7	58.6			
FH (60°-80°)	1775.7	9.4			G1/1800
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1401.3	7.4	B3/2500		
BM (30°-60°)	2401.3	12.7	B2/2500		
BH (60°-80°)	313.0	1.6	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6
2.5°	3209.6	3207.4	3205.2	3218.4	3214.0	3211.8	3216.2	3216.2	3216.2	3203.0	3176.6
5°	3286.7	3286.7	3284.5	3297.7	3286.7	3280.1	3282.3	3282.3	3273.5	3249.3	3216.2
7.5°	3407.9	3403.5	3399.1	3412.3	3401.3	3399.1	3403.5	3390.2	3374.8	3335.2	3288.9
10°	3581.9	3581.9	3575.3	3588.5	3579.7	3575.3	3575.3	3566.5	3537.8	3476.2	3407.9
12.5°	3822.0	3811.0	3795.6	3784.6	3780.2	3778.0	3780.2	3766.9	3736.1	3656.8	3562.1
15°	4084.2	4075.3	4051.1	4033.5	4009.3	4004.9	4018.1	4007.1	3976.2	3868.3	3733.9
17.5°	4414.6	4425.6	4363.9	4326.5	4256.0	4251.6	4256.0	4273.6	4251.6	4112.8	3916.7
20°	4696.6	4705.4	4659.1	4632.7	4568.8	4540.2	4549.0	4577.6	4553.4	4390.4	4117.2
22.5°	4998.4	5009.4	4960.9	4905.8	4877.2	4877.2	4910.2	4949.9	4916.9	4703.2	4346.3
25°	5359.6	5368.4	5328.8	5256.1	5205.4	5269.3	5317.8	5423.5	5368.4	5077.7	4617.3
27.5°	5773.8	5776.0	5718.7	5643.8	5617.4	5736.3	5784.8	5947.8	5925.8	5498.4	4903.6
30°	6216.6	6218.8	6205.5	6154.9	6130.6	6287.1	6353.1	6588.8	6573.4	6020.5	5293.5
32.5°	6677.0	6677.0	6701.2	6696.8	6725.4	6981.0	7086.7	7355.5	7340.0	6659.3	5778.2
35°	7139.6	7141.8	7183.6	7289.4	7408.3	7747.6	7886.4	8212.4	8177.1	7423.7	6397.2
37.5°	7666.1	7644.0	7701.3	7859.9	8124.3	8516.4	8648.6	8959.2	8919.5	8205.8	7205.7
40°	8300.5	8260.8	8260.8	8445.9	8745.5	9197.1	9309.4	9463.6	9329.2	8838.0	7998.7
42.5°	9001.0	8963.6	8915.1	9078.1	9329.2	9681.7	9774.2	9732.4	9622.2	9435.0	8901.9
45°	9710.3	9653.1	9686.1	9785.2	9930.6	10098.1	10133.3	9939.4	9888.8	9941.6	9648.7
47.5°	10250.1	10210.4	10291.9	10430.7	10549.6	10573.9	10549.6	10280.9	10276.5	10463.7	10166.3
50°	10430.7	10435.1	10659.8	10963.8	11155.4	11175.3	11142.2	10833.8	10792.0	10847.0	10446.1
52.5°	10448.3	10465.9	10794.2	11373.5	11895.6	12133.5	12107.1	11774.5	11364.7	11305.2	10869.1
55°	10023.2	10126.7	10584.9	11430.8	12541.1	13301.1	13389.2	12752.5	12144.5	12093.9	11778.9
57.5°	8011.9	8223.4	8776.3	9981.3	11820.7	13422.2	13651.3	13193.1	12604.9	12389.1	11534.3
60°	4789.1	5051.2	5582.1	7060.3	8996.6	11032.1	11426.4	11490.3	11219.3	10595.9	8849.0
62.5°	2055.3	2033.3	2687.5	3819.8	5350.8	7011.8	7190.2	7467.8	7703.5	7051.5	5370.6
65°	704.9	766.6	1066.2	1722.7	2678.7	3255.9	3414.5	3663.4	3998.2	3299.9	1967.2
67.5°	436.2	462.6	614.6	1017.7	1445.1	1423.1	1352.6	1312.9	1277.7	874.5	539.7
70°	317.2	339.2	431.8	700.5	971.5	682.9	592.6	480.2	533.1	491.2	383.3
72.5°	213.7	231.3	297.4	425.2	497.9	332.6	308.4	350.3	423.0	403.1	312.8
75°	127.8	138.8	169.6	207.1	202.7	171.8	174.0	246.7	323.8	301.8	222.5
77.5°	88.1	92.5	112.3	134.4	99.1	52.9	48.5	68.3	110.1	110.1	74.9
80°	22.0	28.6	28.6	17.6	15.4	13.2	13.2	19.8	30.8	22.0	11.0
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	4.4	4.4
85°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	4.4
87.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4
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°	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6
2.5°	3192.0	3165.6	3183.2	3178.8	3192.0	3196.4	3176.6	3172.2	3174.4	3147.9	3139.1
5°	3222.8	3192.0	3200.8	3192.0	3207.4	3220.6	3214.0	3222.8	3233.8	3214.0	3205.2
7.5°	3288.9	3258.1	3255.9	3242.7	3264.7	3273.5	3271.3	3295.5	3317.6	3304.3	3291.1
10°	3403.5	3361.6	3357.2	3346.2	3352.8	3359.4	3335.2	3339.6	3359.4	3344.0	3337.4
12.5°	3544.5	3493.8	3482.8	3456.3	3456.3	3423.3	3370.4	3359.4	3374.8	3363.8	3352.8
15°	3696.5	3628.2	3610.5	3564.3	3520.2	3458.5	3403.5	3390.2	3401.3	3388.0	3379.2
17.5°	3866.1	3789.0	3731.7	3650.2	3553.3	3480.6	3418.9	3390.2	3372.6	3346.2	3344.0
20°	4033.5	3932.2	3835.2	3705.3	3577.5	3467.4	3366.0	3291.1	3227.2	3187.6	3172.2
22.5°	4227.3	4077.6	3921.1	3738.3	3555.5	3388.0	3209.6	3081.8	2971.7	2934.3	2916.6
25°	4434.4	4240.6	4007.1	3769.1	3480.6	3211.8	2969.5	2780.0	2634.7	2586.2	2566.4
27.5°	4663.5	4397.0	4095.2	3762.5	3326.4	2960.7	2639.1	2403.4	2260.2	2216.1	2231.5
30°	4954.3	4599.6	4205.3	3694.2	3095.1	2608.2	2231.5	2033.3	1925.3	1883.5	1885.7
32.5°	5342.0	4890.4	4366.1	3548.9	2797.7	2207.3	1876.9	1731.5	1658.8	1603.7	1599.3
35°	5897.1	5333.2	4515.9	3315.4	2436.4	1850.4	1610.3	1495.8	1394.4	1330.5	1341.6
37.5°	6562.4	5890.5	4597.4	3000.3	2031.1	1572.9	1409.9	1293.1	1178.5	1083.8	1094.8
40°	7351.0	6619.7	4590.8	2586.2	1661.0	1383.4	1242.4	1105.9	962.7	876.8	885.6
42.5°	8230.0	7309.2	4447.6	2147.8	1376.8	1229.2	1081.6	909.8	771.0	718.1	720.3
45°	8992.2	7868.7	4196.5	1694.0	1158.7	1079.4	914.2	738.0	676.3	638.8	636.6
47.5°	9556.1	8278.5	3837.4	1332.7	982.5	942.8	751.2	660.9	612.4	581.6	577.2
50°	9871.2	8421.7	3440.9	1044.2	830.5	799.6	671.9	599.2	566.1	546.3	541.9
52.5°	10294.1	8593.5	3156.7	823.9	696.1	654.3	619.0	557.3	535.3	519.9	513.3
55°	10963.8	8926.1	2910.0	654.3	579.4	570.5	583.8	533.1	519.9	495.7	486.8
57.5°	10333.8	8018.5	2260.2	506.7	489.0	522.1	563.9	508.9	475.8	453.8	445.0
60°	7271.7	5331.0	1136.7	407.5	436.2	489.0	530.9	460.4	427.4	431.8	427.4
62.5°	4009.3	2667.7	511.1	341.4	378.9	431.8	453.8	398.7	376.7	414.1	420.8
65°	1310.7	907.6	295.2	264.3	299.6	352.5	392.1	378.9	374.5	418.5	431.8
67.5°	403.1	299.6	200.5	189.4	207.1	259.9	330.4	409.7	440.6	453.8	460.4
70°	301.8	235.7	171.8	160.8	169.6	198.3	279.8	341.4	321.6	323.8	319.4
72.5°	242.3	187.2	147.6	141.0	141.0	136.6	147.6	185.0	209.3	220.3	220.3
75°	169.6	132.2	112.3	103.5	81.5	66.1	59.5	59.5	52.9	50.7	48.5
77.5°	57.3	48.5	44.1	35.2	24.2	19.8	17.6	15.4	11.0	6.6	4.4
80°	8.8	6.6	4.4	4.4	4.4	2.2	2.2	2.2	0.0	0.0	0.0
82.5°	4.4	4.4	4.4	4.4	4.4	2.2	2.2	0.0	0.0	0.0	0.0
85°	4.4	4.4	4.4	4.4	4.4	2.2	2.2	0.0	0.0	0.0	0.0
87.5°	4.4	4.4	4.4	4.4	2.2	2.2	2.2	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)