

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: P640372

Luminaire Tested: GWS-SA5D-760-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640372  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-760-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

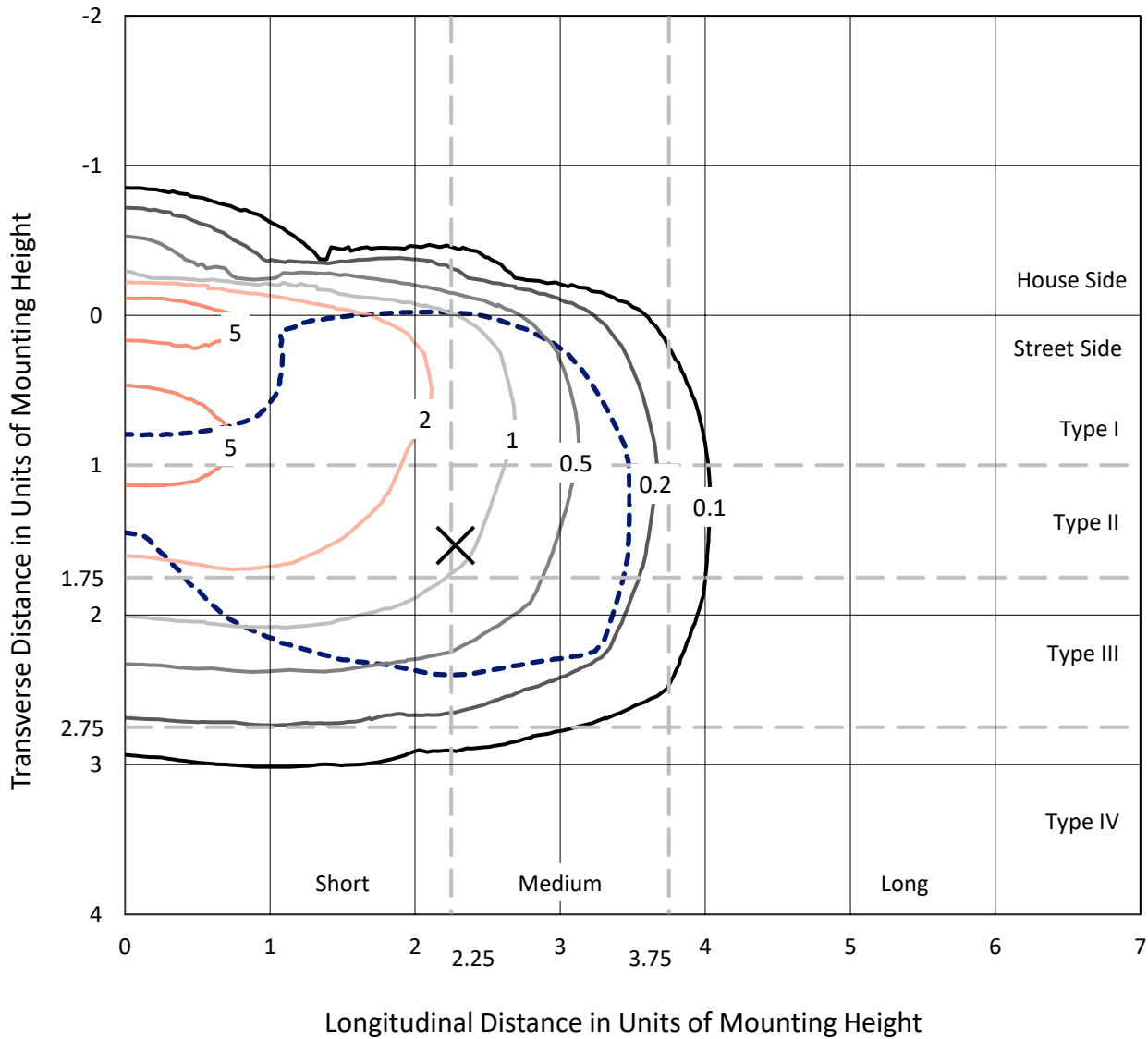
Lumens per Lamp: N/A  
Luminaire Lumens: 23726 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

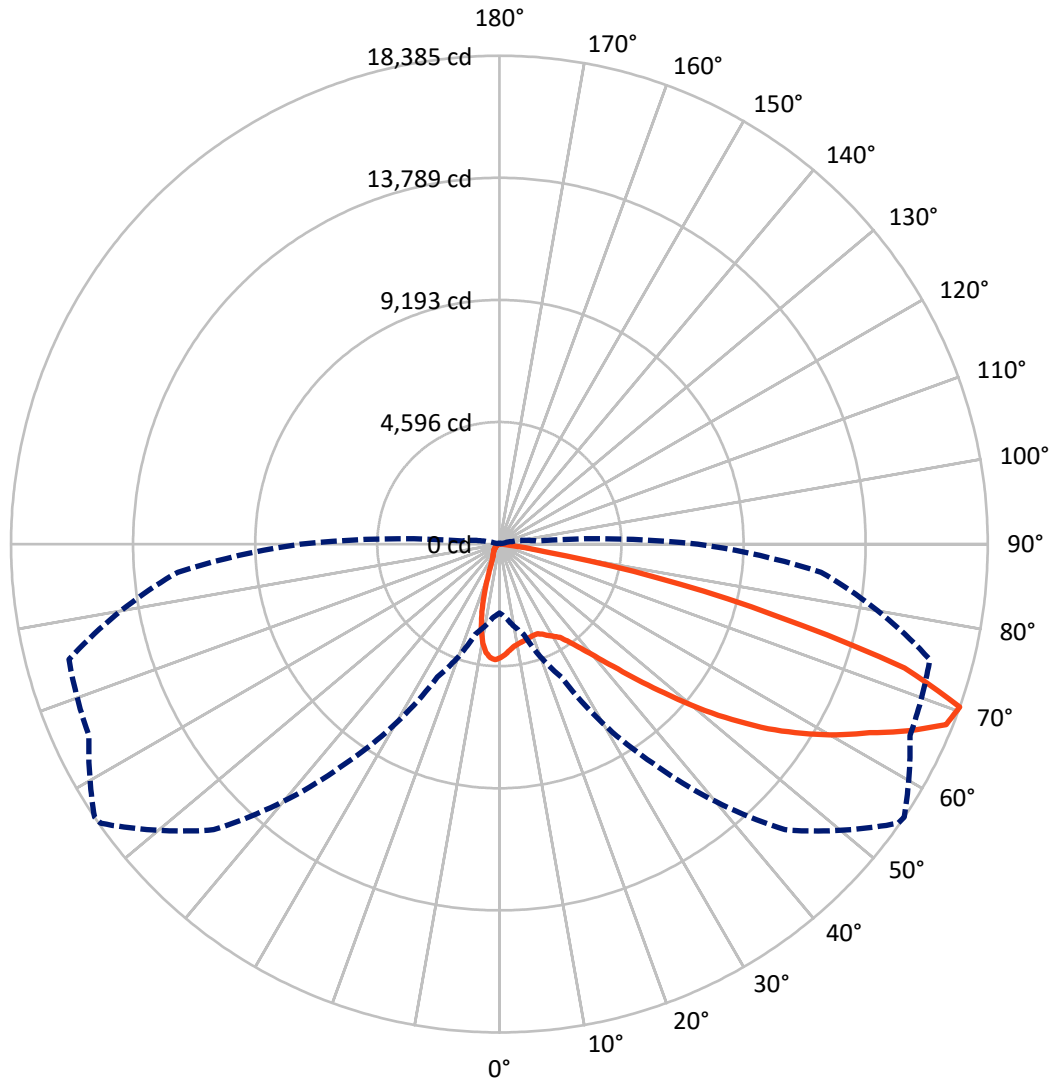
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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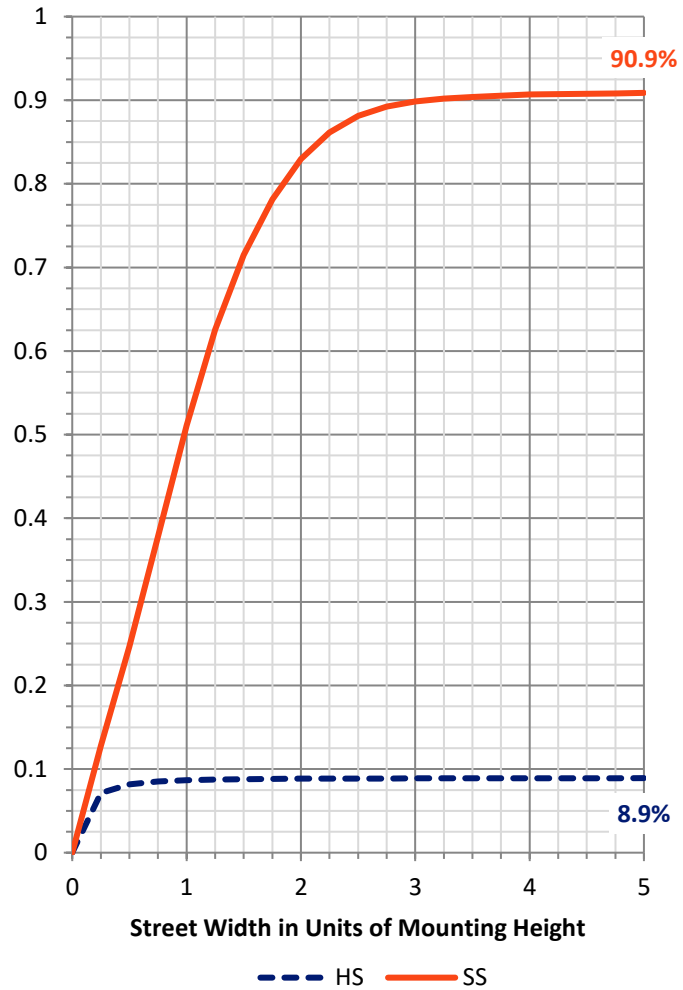
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2131.1	0.0	2131.1
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	21595.0	0.0	21595.0
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	23726.0	0.0	23726.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.3	1.5
10°-20°	826.1	3.5
20°-30°	1308.6	5.5
30°-40°	2256.6	9.5
40°-50°	3810.7	16.1
50°-60°	5599.1	23.6
60°-70°	6638.0	28.0
70°-80°	2830.7	11.9
80°-90°	88.9	0.4
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°	23726.0	100.0
0°-180°	23726.0	100.0

**Coefficient of Utilization**



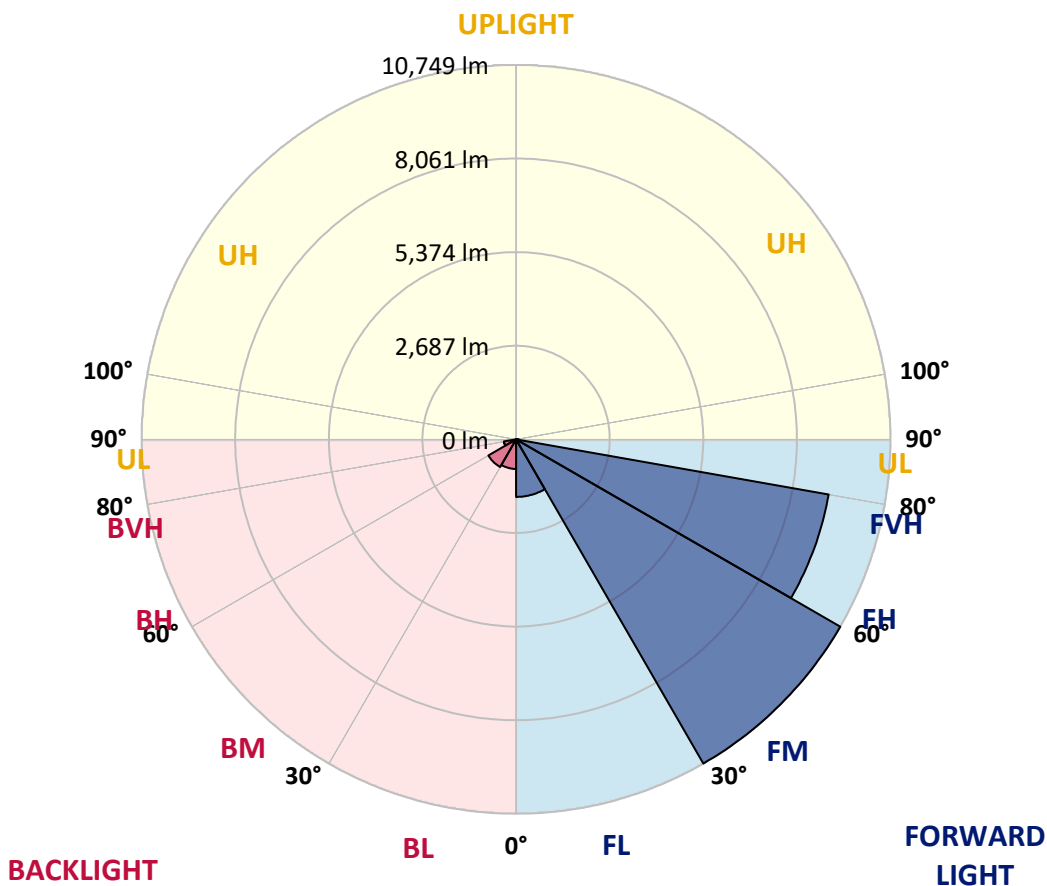
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1653.3	7.0			
FM (30°-60°)	10748.5	45.3			
FH (60°-80°)	9113.3	38.4			G4/12000
FVH (80°-90°)	79.9	0.3			G1/100
BL (0°-30°)	848.7	3.6	B2/1000		
BM (30°-60°)	917.9	3.9	B1/1000		
BH (60°-80°)	355.4	1.5	B1/500		G1/500
BVH (80°-90°)	9.0	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0
2.5°	3982.6	3976.0	3980.4	4013.0	4073.8	4102.0	4149.8	4158.5	4197.6	4247.6	4267.2
5°	3724.0	3702.3	3713.1	3758.8	3828.3	3906.5	3995.6	4019.5	4117.3	4228.1	4310.6
7.5°	3487.2	3463.3	3489.3	3561.0	3658.8	3743.6	3876.1	3891.3	4047.7	4243.3	4393.2
10°	3115.6	3122.2	3174.3	3300.3	3450.2	3626.2	3804.4	3826.1	4019.5	4293.2	4525.7
12.5°	2831.0	2815.8	2872.3	3015.7	3226.5	3482.8	3750.1	3778.3	4021.7	4369.3	4695.2
15°	2698.5	2694.1	2718.0	2822.3	3026.6	3328.6	3700.1	3737.0	4049.9	4438.8	4856.0
17.5°	2702.8	2696.3	2694.1	2755.0	2907.1	3213.4	3645.8	3693.6	4073.8	4514.9	5025.4
20°	2891.9	2861.4	2807.1	2778.9	2870.1	3139.5	3608.8	3663.2	4108.6	4595.3	5205.8
22.5°	3287.3	3298.2	3152.6	3000.5	2957.0	3148.2	3604.5	3667.5	4184.6	4721.3	5427.4
25°	4078.1	4060.8	3791.4	3450.2	3213.4	3248.2	3680.5	3756.6	4334.5	4901.6	5636.0
27.5°	5068.9	5084.1	4714.7	4171.6	3676.2	3454.6	3819.6	3895.6	4508.3	5014.6	5775.0
30°	6148.7	6133.5	5738.1	5136.3	4332.4	3797.9	3958.7	4026.0	4595.3	5075.4	5918.4
32.5°	7169.9	7135.1	6744.0	6114.0	5168.8	4338.9	4149.8	4189.0	4710.4	5208.0	6111.8
35°	8041.1	8039.0	7697.9	7026.5	6029.2	5016.8	4477.9	4510.5	4925.5	5418.7	6396.4
37.5°	8940.6	8910.2	8527.8	7915.1	6913.5	5759.8	4979.8	4966.8	5264.4	5729.4	6746.2
40°	9679.4	9659.8	9366.5	8777.7	7832.6	6581.1	5588.2	5549.1	5666.4	6159.6	7232.9
42.5°	10226.9	10229.0	10137.8	9779.3	8805.9	7530.6	6353.0	6292.1	6290.0	6809.2	7876.0
45°	10641.9	10670.1	10807.0	10752.7	9955.3	8636.5	7332.8	7269.8	7163.4	7652.2	8612.6
47.5°	10835.2	10872.2	11285.0	11502.2	10961.2	9733.7	8499.6	8367.0	8158.5	8773.3	9436.0
50°	10815.7	10880.9	11456.6	12117.1	11873.8	10846.1	9770.6	9707.6	9366.5	9959.6	10250.8
52.5°	10372.4	10511.5	11467.5	12490.8	12575.6	11871.6	11085.1	10967.8	10802.6	11198.1	11015.6
55°	9168.8	9338.2	11009.0	12610.3	13123.1	12766.8	12371.3	12275.7	12002.0	12367.0	11682.6
57.5°	8514.8	8660.4	10044.4	12551.7	13588.0	13594.6	13516.3	13438.1	13212.2	13522.9	12464.8
60°	8121.5	8267.1	9529.4	12336.6	14009.5	14468.0	14591.8	14583.1	14257.2	14837.3	13381.6
62.5°	7545.8	7745.7	8992.8	11778.2	14309.4	15328.4	15702.1	15643.4	15280.6	16206.1	14289.8
65°	6383.4	6557.2	7893.4	10857.0	14133.4	16041.0	16905.7	16936.2	16516.8	17494.5	15006.8
67.5°	4475.8	4603.9	5931.5	8923.3	12938.4	16275.7	18137.7	18135.5	17420.7	18155.0	14689.6
70°	2594.2	2770.2	3504.6	5516.5	10066.1	15208.9	18322.3	18385.3	17053.5	16775.4	12156.2
72.5°	1003.8	1149.4	1985.8	2931.0	5249.2	11650.0	15760.7	15945.4	14272.4	12940.6	8460.5
75°	299.8	334.6	934.3	1560.0	2107.5	5627.3	10670.1	10722.3	9790.2	8071.6	4336.7
77.5°	223.8	247.7	408.5	788.7	738.7	1705.6	5520.8	6029.2	5197.1	2883.2	1195.0
80°	152.1	180.3	291.1	384.6	273.8	454.1	1551.3	1703.4	1586.1	647.5	299.8
82.5°	67.4	86.9	206.4	193.4	99.9	130.4	478.0	508.4	328.1	195.5	104.3
85°	6.5	8.7	78.2	84.7	36.9	30.4	99.9	99.9	71.7	67.4	43.5
87.5°	0.0	0.0	2.2	4.3	4.3	6.5	8.7	10.9	13.0	17.4	21.7
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°	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0
2.5°	4317.1	4291.1	4323.7	4349.7	4356.3	4308.5	4280.2	4238.9	4230.2	4232.4	4221.5
5°	4375.8	4362.8	4386.7	4358.4	4284.6	4145.5	4026.0	3893.5	3821.8	3780.5	3776.1
7.5°	4484.4	4477.9	4451.9	4323.7	4093.4	3784.8	3487.2	3196.0	3015.7	2950.5	2939.7
10°	4645.2	4632.2	4525.7	4221.5	3730.5	3137.4	2637.7	2220.5	1966.3	1892.4	1801.2
12.5°	4829.9	4803.8	4571.4	4002.1	3183.0	2361.7	1738.2	1271.0	1051.6	986.4	986.4
15°	5008.1	4951.6	4545.3	3639.3	2509.5	1536.1	971.2	734.4	667.0	649.6	649.6
17.5°	5190.6	5081.9	4443.2	3143.9	1733.8	908.2	647.5	601.8	593.1	595.3	597.5
20°	5362.2	5192.7	4262.8	2548.6	1105.9	634.4	580.1	569.2	564.9	569.2	567.1
22.5°	5549.1	5294.9	3989.1	1898.9	719.2	571.4	551.9	543.2	538.8	545.3	545.3
25°	5733.7	5368.7	3626.2	1277.5	571.4	532.3	521.4	512.8	508.4	510.6	510.6
27.5°	5829.3	5340.5	3150.4	814.8	512.8	493.2	482.3	471.5	465.0	462.8	465.0
30°	5894.5	5253.6	2568.1	580.1	465.0	441.1	430.2	421.5	404.1	393.3	397.6
32.5°	5996.6	5166.7	1935.9	486.7	425.8	388.9	371.5	349.8	325.9	315.0	315.0
35°	6118.3	5047.2	1357.9	438.9	384.6	345.5	312.9	275.9	247.7	239.0	239.0
37.5°	6279.1	4934.2	903.8	406.3	349.8	308.5	262.9	219.4	189.0	184.7	182.5
40°	6520.3	4838.6	636.6	382.4	319.4	269.4	215.1	169.5	147.7	141.2	141.2
42.5°	6833.1	4740.8	504.1	358.5	293.3	232.5	171.6	134.7	117.3	113.0	110.8
45°	7219.9	4625.7	438.9	336.8	267.2	193.4	136.9	113.0	99.9	95.6	95.6
47.5°	7639.2	4469.2	408.5	308.5	236.8	156.4	115.2	97.8	91.3	89.1	86.9
50°	8052.0	4258.5	382.4	282.5	202.1	128.2	99.9	89.1	84.7	82.6	82.6
52.5°	8412.7	4013.0	349.8	252.0	165.1	110.8	89.1	82.6	78.2	73.9	71.7
55°	8721.2	3745.7	308.5	217.3	134.7	97.8	82.6	76.0	71.7	67.4	65.2
57.5°	9118.8	3593.6	247.7	176.0	110.8	86.9	76.0	69.5	65.2	58.7	58.7
60°	9559.9	3482.8	184.7	139.1	95.6	80.4	69.5	63.0	58.7	52.1	52.1
62.5°	9914.0	3317.7	145.6	113.0	82.6	71.7	63.0	56.5	52.1	45.6	45.6
65°	10048.7	2976.6	119.5	89.1	67.4	63.0	56.5	52.1	45.6	39.1	39.1
67.5°	9440.4	2294.4	99.9	71.7	56.5	54.3	50.0	47.8	39.1	34.8	32.6
70°	7476.2	1399.2	82.6	58.7	47.8	45.6	45.6	41.3	34.8	32.6	30.4
72.5°	5123.2	721.3	67.4	47.8	41.3	41.3	39.1	36.9	32.6	30.4	30.4
75°	2661.6	241.2	52.1	36.9	32.6	34.8	34.8	32.6	30.4	30.4	28.2
77.5°	762.6	108.6	39.1	28.2	26.1	26.1	28.2	28.2	28.2	26.1	26.1
80°	197.7	63.0	28.2	21.7	21.7	21.7	21.7	23.9	26.1	23.9	23.9
82.5°	80.4	34.8	19.6	17.4	17.4	17.4	17.4	19.6	21.7	21.7	21.7
85°	50.0	17.4	15.2	15.2	15.2	13.0	13.0	15.2	15.2	17.4	17.4
87.5°	30.4	13.0	13.0	13.0	13.0	10.9	10.9	10.9	10.9	10.9	10.9
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)