

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: P638282

Luminaire Tested: GWS-SA4E-740-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638282  
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-SA4E-740-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

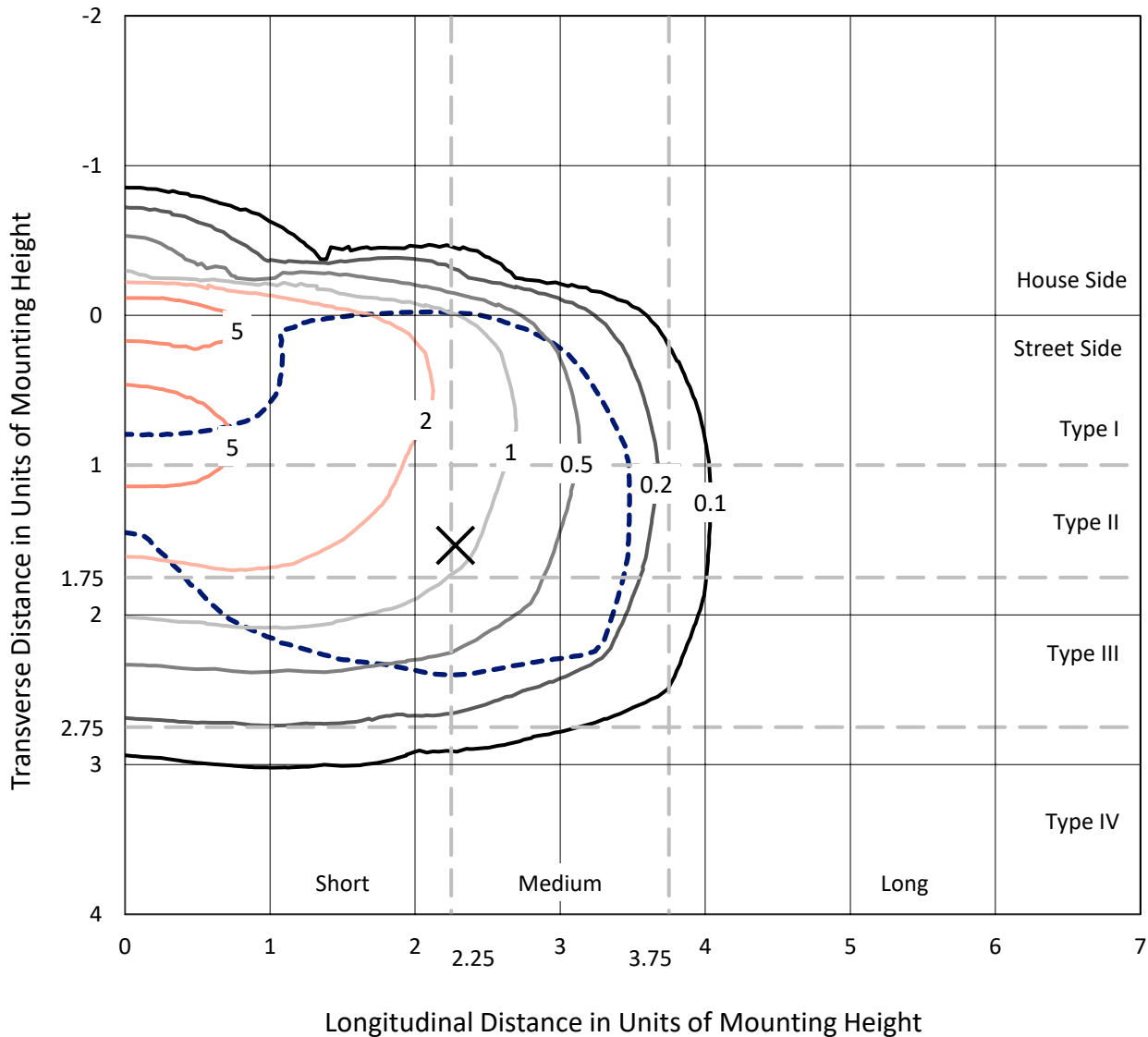
Lumens per Lamp: N/A  
Luminaire Lumens: 23956.4 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): 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

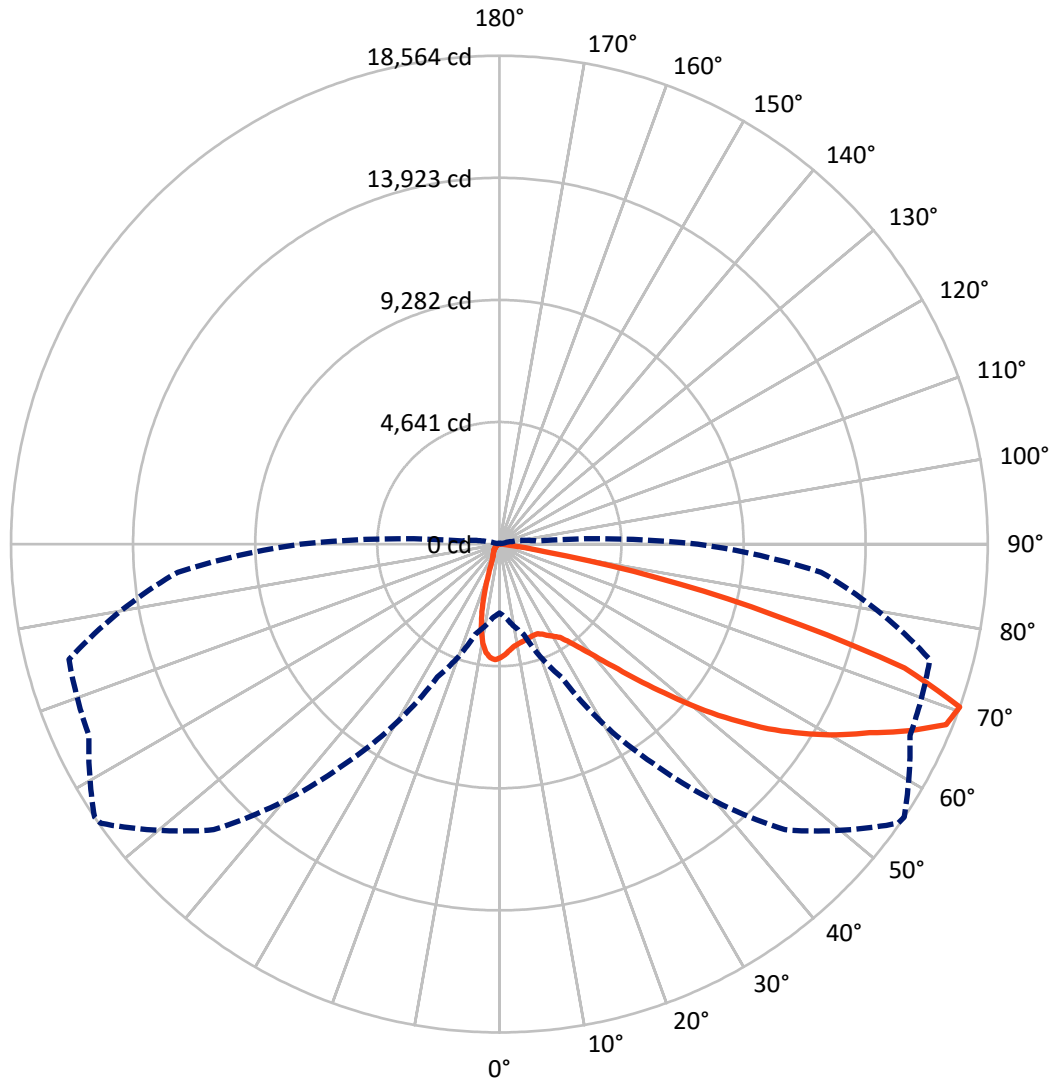
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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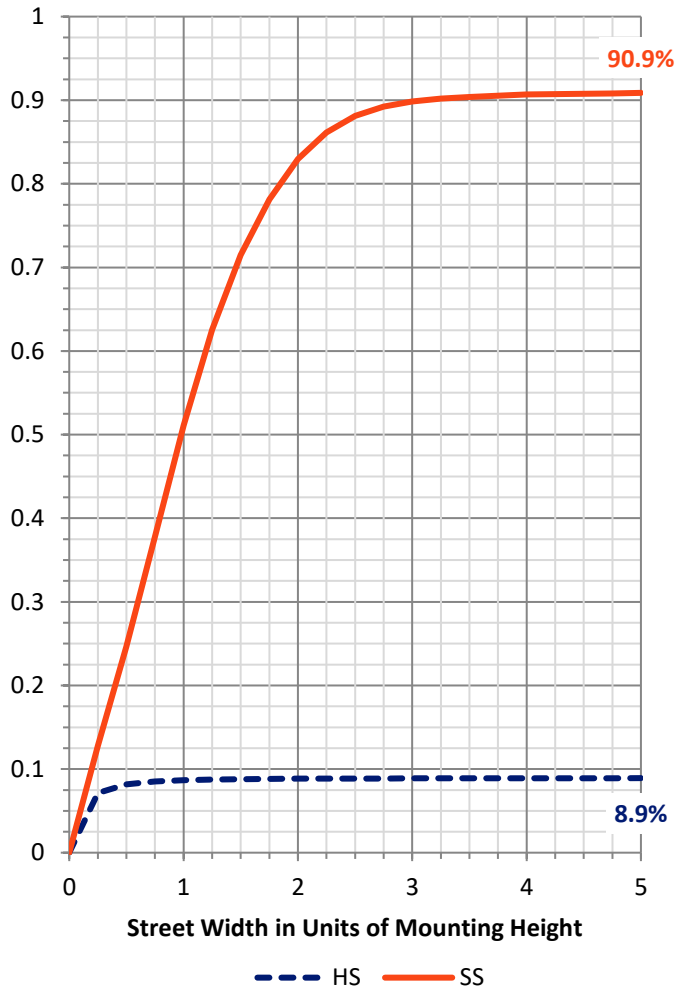
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2151.8	0.0	2151.8
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	21804.6	0.0	21804.6
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	23956.4	0.0	23956.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.9	1.5
10°-20°	834.1	3.5
20°-30°	1321.3	5.5
30°-40°	2278.5	9.5
40°-50°	3847.7	16.1
50°-60°	5653.5	23.6
60°-70°	6702.5	28.0
70°-80°	2858.2	11.9
80°-90°	89.8	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°	23956.4	100.0
0°-180°	23956.4	100.0

**Coefficient of Utilization**



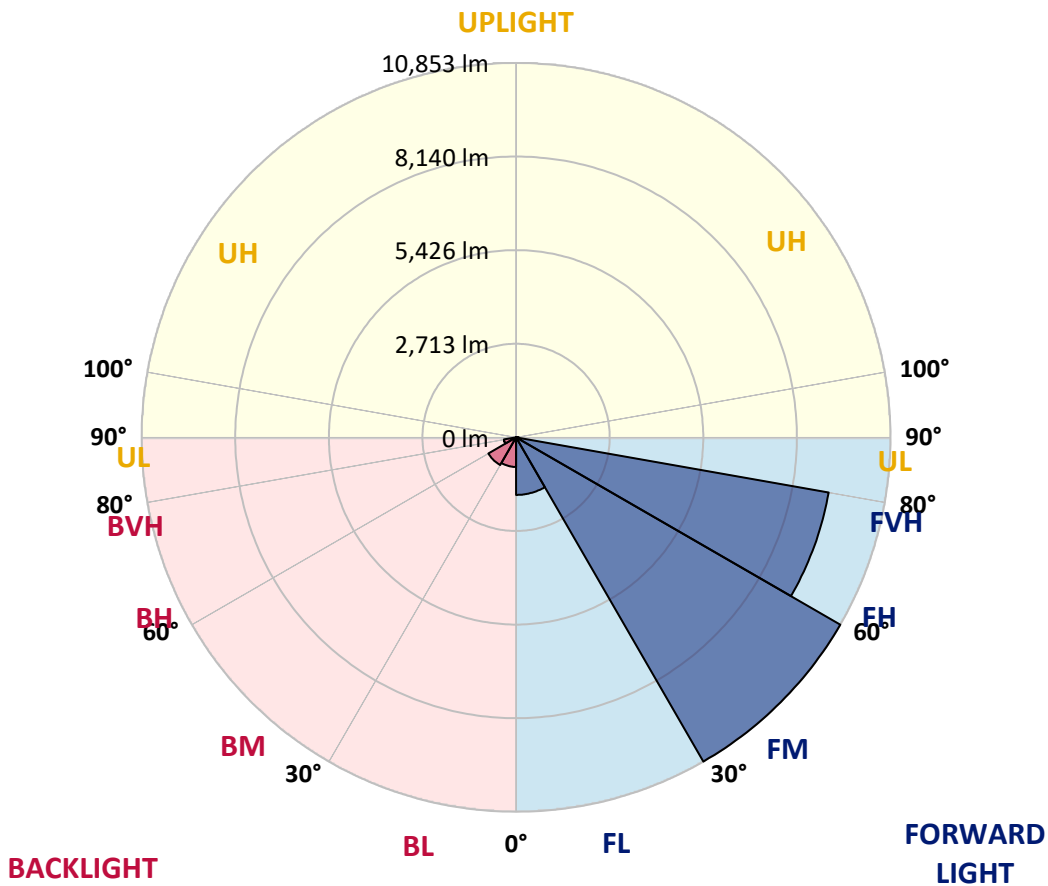
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1669.3	7.0			
FM (30°-60°)	10852.9	45.3			
FH (60°-80°)	9201.8	38.4			G4/12000
FVH (80°-90°)	80.6	0.3			G1/100
BL (0°-30°)	857.0	3.6	B2/1000		
BM (30°-60°)	926.8	3.9	B1/1000		
BH (60°-80°)	358.9	1.5	B1/500		G1/500
BVH (80°-90°)	9.1	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°	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6
2.5°	4021.2	4014.6	4019.0	4051.9	4113.4	4141.9	4190.1	4198.9	4238.4	4288.9	4308.6
5°	3760.2	3738.2	3749.2	3795.3	3865.5	3944.4	4034.4	4058.5	4157.2	4269.1	4352.5
7.5°	3521.0	3496.9	3523.2	3595.6	3694.3	3779.9	3913.7	3929.1	4087.0	4284.5	4435.9
10°	3145.9	3152.5	3205.1	3332.4	3483.7	3661.4	3841.3	3863.3	4058.5	4334.9	4569.7
12.5°	2858.5	2843.2	2900.2	3045.0	3257.8	3516.7	3786.5	3815.0	4060.7	4411.7	4740.8
15°	2724.7	2720.3	2744.4	2849.7	3056.0	3360.9	3736.0	3773.3	4089.2	4481.9	4903.1
17.5°	2729.1	2722.5	2720.3	2781.7	2935.3	3244.6	3681.2	3729.4	4113.4	4558.7	5074.2
20°	2919.9	2889.2	2834.4	2805.9	2898.0	3170.0	3643.9	3698.7	4148.5	4639.9	5256.3
22.5°	3319.2	3330.2	3183.2	3029.6	2985.8	3178.8	3639.5	3703.1	4225.2	4767.1	5480.1
25°	4117.8	4100.2	3828.2	3483.7	3244.6	3279.7	3716.3	3793.1	4376.6	4949.2	5690.7
27.5°	5118.1	5133.5	4760.5	4212.1	3711.9	3488.1	3856.7	3933.5	4552.1	5063.3	5831.1
30°	6208.4	6193.1	5793.8	5186.1	4374.4	3834.8	3997.1	4065.1	4639.9	5124.7	5975.9
32.5°	7239.5	7204.4	6809.5	6173.3	5219.0	4381.0	4190.1	4229.6	4756.1	5258.5	6171.1
35°	8119.2	8117.0	7772.6	7094.7	6087.8	5065.5	4521.4	4554.3	4973.3	5471.3	6458.5
37.5°	9027.5	8996.7	8610.6	7992.0	6980.7	5815.7	5028.2	5015.0	5315.6	5785.0	6811.7
40°	9773.4	9753.6	9457.4	8862.9	7908.6	6645.0	5642.4	5602.9	5721.4	6219.4	7303.1
42.5°	10326.2	10328.4	10236.2	9874.3	8891.4	7603.7	6414.7	6353.2	6351.0	6875.3	7952.5
45°	10745.2	10773.7	10911.9	10857.1	10052.0	8720.3	7404.1	7340.4	7232.9	7726.5	8696.2
47.5°	10940.4	10977.7	11394.6	11613.9	11067.7	9828.2	8582.1	8448.3	8237.7	8858.5	9527.6
50°	10920.7	10986.5	11567.9	12234.8	11989.1	10951.4	9865.5	9801.9	9457.4	10056.4	10350.3
52.5°	10473.2	10613.6	11578.8	12612.1	12697.7	11986.9	11192.7	11074.3	10907.5	11306.8	11122.5
55°	9257.8	9428.9	11116.0	12732.8	13250.5	12890.7	12491.5	12394.9	12118.5	12487.1	11796.0
57.5°	8597.5	8744.5	10141.9	12673.5	13720.0	13726.6	13647.6	13568.6	13340.5	13654.2	12585.8
60°	8200.4	8347.4	9622.0	12456.4	14145.6	14608.5	14733.5	14724.7	14395.7	14981.4	13511.6
62.5°	7619.0	7820.9	9080.1	11892.6	14448.3	15477.2	15854.5	15795.3	15429.0	16363.5	14428.6
65°	6445.4	6620.9	7970.1	10962.4	14270.6	16196.8	17069.9	17100.6	16677.2	17664.4	15152.5
67.5°	4519.2	4648.6	5989.1	9009.9	13064.0	16433.7	18313.8	18311.6	17589.8	18331.3	14832.2
70°	2619.4	2797.1	3538.6	5570.0	10163.8	15356.6	18500.3	18563.9	17219.1	16938.3	12274.3
72.5°	1013.5	1160.5	2005.1	2959.4	5300.2	11763.1	15913.8	16100.3	14411.0	13066.2	8542.6
75°	302.7	337.8	943.3	1575.1	2128.0	5681.9	10773.7	10826.4	9885.2	8149.9	4378.8
77.5°	226.0	250.1	412.4	796.3	745.9	1722.1	5574.4	6087.8	5247.6	2911.2	1206.6
80°	153.6	182.1	294.0	388.3	276.4	458.5	1566.4	1719.9	1601.5	653.8	302.7
82.5°	68.0	87.8	208.4	195.2	100.9	131.6	482.6	513.3	331.3	197.4	105.3
85°	6.6	8.8	79.0	85.6	37.3	30.7	100.9	100.9	72.4	68.0	43.9
87.5°	0.0	0.0	2.2	4.4	4.4	6.6	8.8	11.0	13.2	17.6	21.9
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°	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6
2.5°	4359.1	4332.7	4365.6	4392.0	4398.6	4350.3	4321.8	4280.1	4271.3	4273.5	4262.5
5°	4418.3	4405.1	4429.3	4400.8	4326.2	4185.8	4065.1	3931.3	3858.9	3817.2	3812.8
7.5°	4528.0	4521.4	4495.1	4365.6	4133.1	3821.6	3521.0	3227.1	3045.0	2979.2	2968.2
10°	4690.3	4677.2	4569.7	4262.5	3766.7	3167.8	2663.3	2242.1	1985.4	1910.8	1818.7
12.5°	4876.8	4850.5	4615.7	4041.0	3213.9	2384.7	1755.0	1283.4	1061.8	996.0	996.0
15°	5056.7	4999.7	4589.4	3674.6	2533.8	1551.0	980.6	741.5	673.5	655.9	655.9
17.5°	5241.0	5131.3	4486.3	3174.4	1750.6	917.0	653.8	607.7	598.9	601.1	603.3
20°	5414.3	5243.2	4304.2	2573.3	1116.6	640.6	585.7	574.8	570.4	574.8	572.6
22.5°	5602.9	5346.3	4027.8	1917.4	726.1	577.0	557.2	548.4	544.1	550.6	550.6
25°	5789.4	5420.9	3661.4	1290.0	577.0	537.5	526.5	517.7	513.3	515.5	515.5
27.5°	5885.9	5392.3	3181.0	822.7	517.7	498.0	487.0	476.1	469.5	467.3	469.5
30°	5951.8	5304.6	2593.1	585.7	469.5	445.3	434.4	425.6	408.0	397.1	401.5
32.5°	6054.9	5216.8	1954.7	491.4	430.0	392.7	375.1	353.2	329.1	318.1	318.1
35°	6177.7	5096.2	1371.1	443.1	388.3	348.8	315.9	278.6	250.1	241.3	241.3
37.5°	6340.1	4982.1	912.6	410.2	353.2	311.5	265.4	221.6	190.9	186.5	184.3
40°	6583.6	4885.6	642.8	386.1	322.5	272.0	217.2	171.1	149.2	142.6	142.6
42.5°	6899.5	4786.9	509.0	362.0	296.2	234.7	173.3	136.0	118.5	114.1	111.9
45°	7290.0	4670.6	443.1	340.0	269.8	195.2	138.2	114.1	100.9	96.5	96.5
47.5°	7713.4	4512.6	412.4	311.5	239.1	158.0	116.3	98.7	92.1	89.9	87.8
50°	8130.2	4299.8	386.1	285.2	204.0	129.4	100.9	89.9	85.6	83.4	83.4
52.5°	8494.4	4051.9	353.2	254.5	166.7	111.9	89.9	83.4	79.0	74.6	72.4
55°	8805.9	3782.1	311.5	219.4	136.0	98.7	83.4	76.8	72.4	68.0	65.8
57.5°	9207.4	3628.5	250.1	177.7	111.9	87.8	76.8	70.2	65.8	59.2	59.2
60°	9652.7	3516.7	186.5	140.4	96.5	81.2	70.2	63.6	59.2	52.7	52.7
62.5°	10010.3	3349.9	147.0	114.1	83.4	72.4	63.6	57.0	52.7	46.1	46.1
65°	10146.3	3005.5	120.7	89.9	68.0	63.6	57.0	52.7	46.1	39.5	39.5
67.5°	9532.0	2316.6	100.9	72.4	57.0	54.8	50.5	48.3	39.5	35.1	32.9
70°	7548.8	1412.8	83.4	59.2	48.3	46.1	46.1	41.7	35.1	32.9	30.7
72.5°	5173.0	728.3	68.0	48.3	41.7	41.7	39.5	37.3	32.9	30.7	30.7
75°	2687.4	243.5	52.7	37.3	32.9	35.1	35.1	32.9	30.7	30.7	28.5
77.5°	770.0	109.7	39.5	28.5	26.3	26.3	28.5	28.5	28.5	26.3	26.3
80°	199.6	63.6	28.5	21.9	21.9	21.9	21.9	24.1	26.3	24.1	24.1
82.5°	81.2	35.1	19.7	17.6	17.6	17.6	17.6	19.7	21.9	21.9	21.9
85°	50.5	17.6	15.4	15.4	15.4	13.2	13.2	15.4	15.4	17.6	17.6
87.5°	30.7	13.2	13.2	13.2	13.2	11.0	11.0	11.0	11.0	11.0	11.0
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)