

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: P637702

Luminaire Tested: GWS-SA4D-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23735.2 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

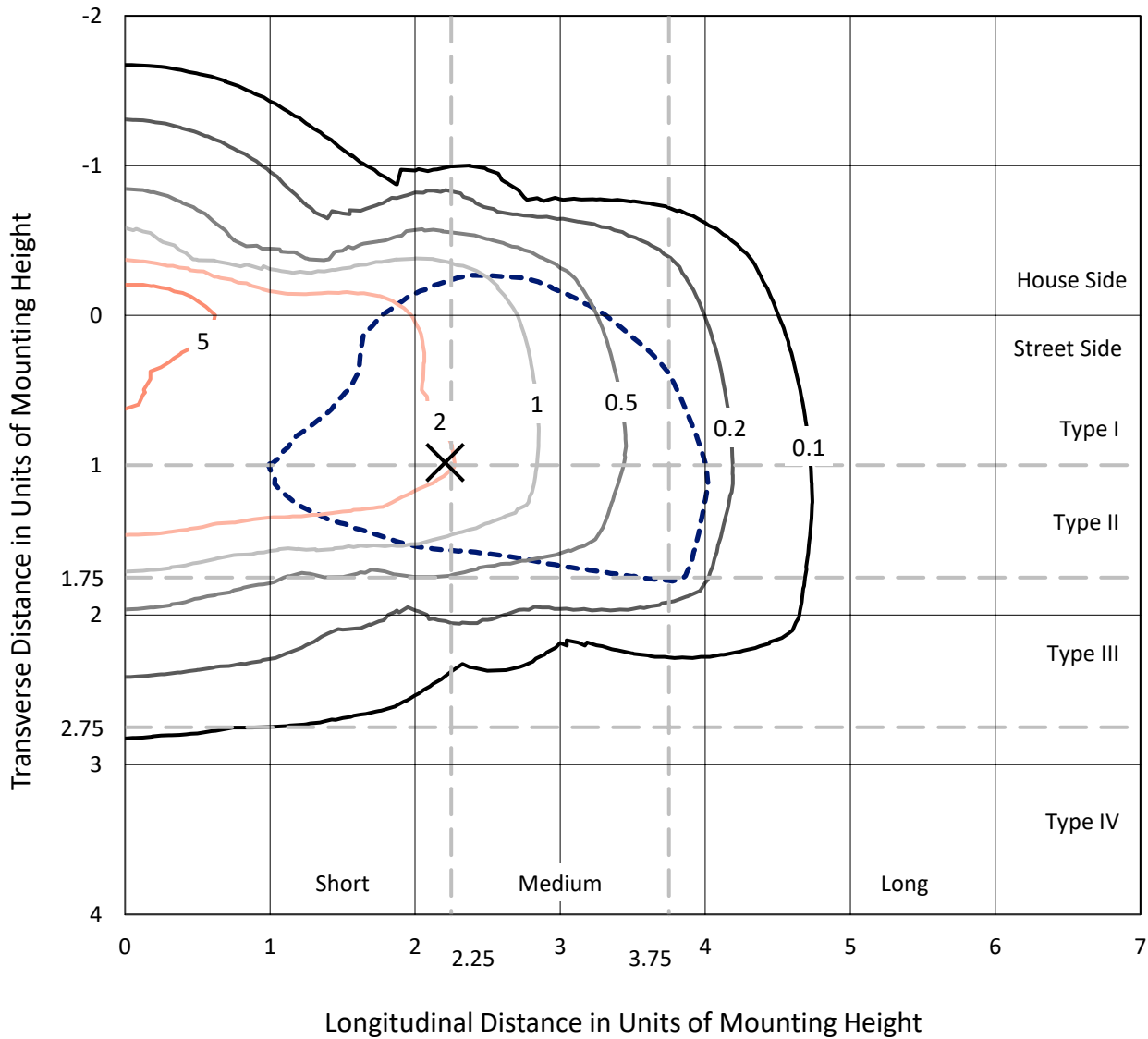
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

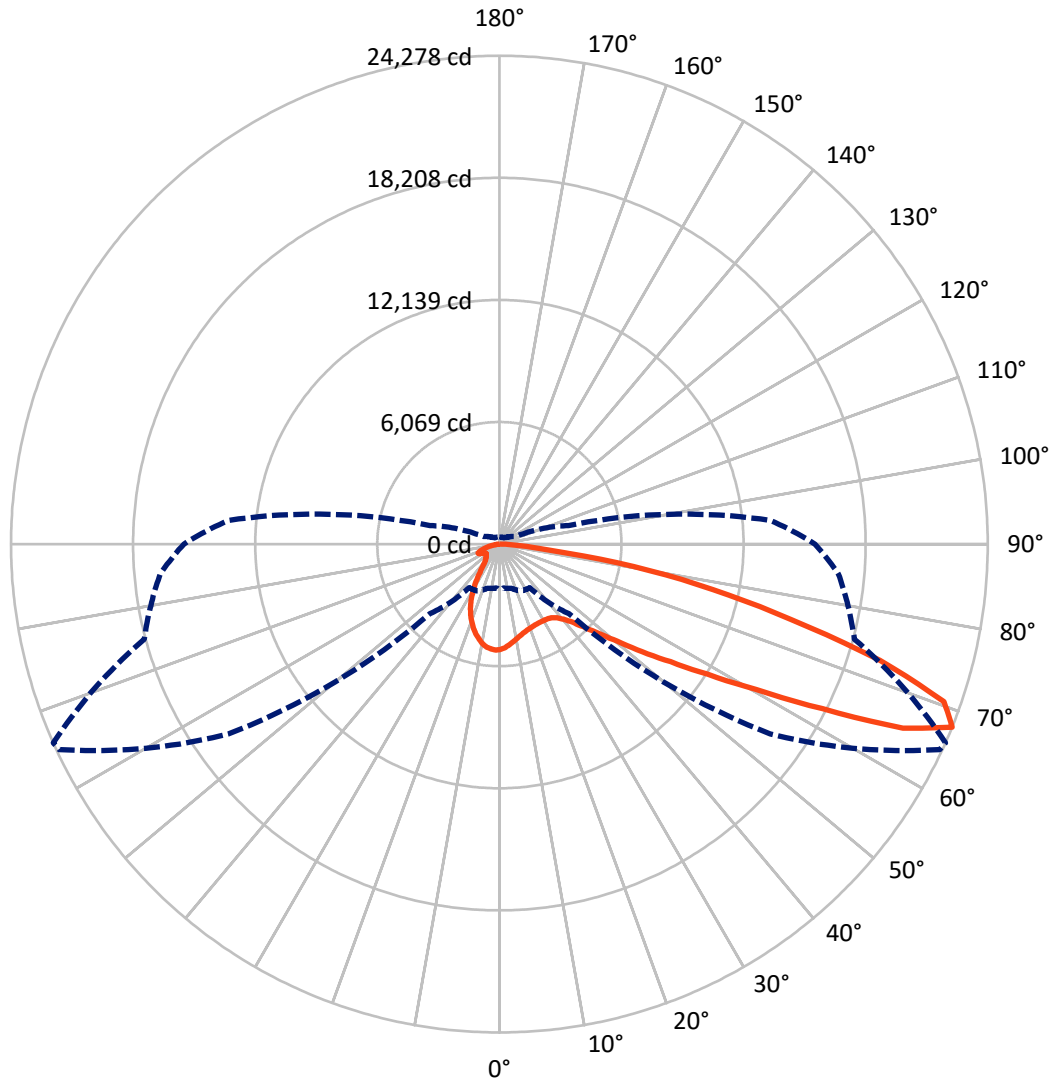
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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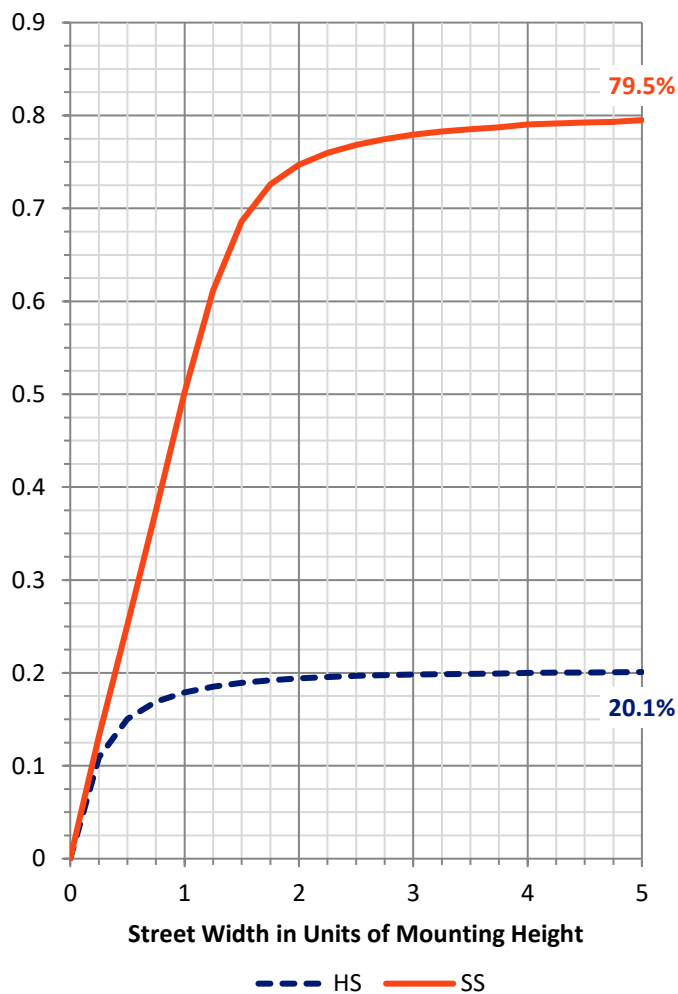
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4816.4	0.0	4816.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	18918.8	0.0	18918.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	23735.2	0.0	23735.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.3	1.9
10°-20°	1131.2	4.8
20°-30°	1554.9	6.6
30°-40°	2125.8	9.0
40°-50°	3221.2	13.6
50°-60°	5007.4	21.1
60°-70°	6096.4	25.7
70°-80°	3713.7	15.6
80°-90°	424.2	1.8
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°	23735.2	100.0
0°-180°	23735.2	100.0

Coefficient of Utilization



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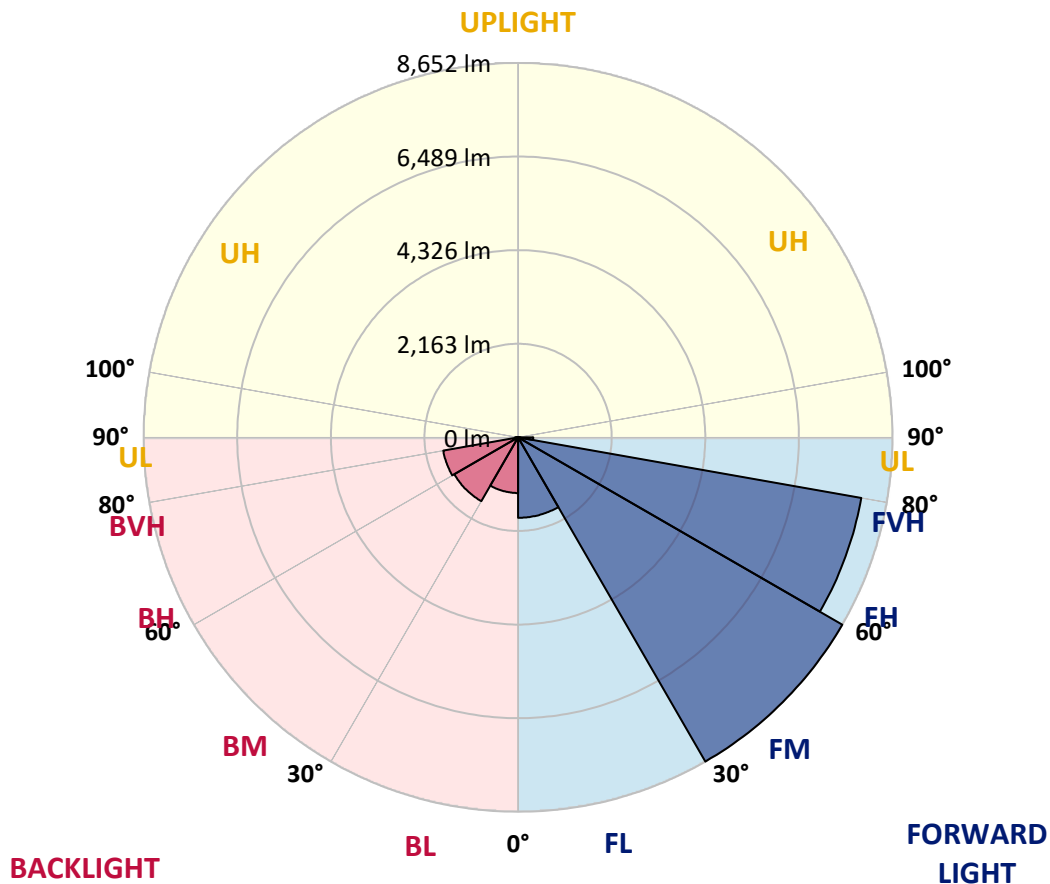
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1859.8	7.8			
FM (30°-60°)	8652.4	36.5			
FH (60°-80°)	8053.9	33.9			G4/12000
FVH (80°-90°)	352.7	1.5			G3/500
BL (0°-30°)	1286.7	5.4	B3/2500		
BM (30°-60°)	1702.1	7.2	B2/2500		
BH (60°-80°)	1756.2	7.4	B3/2500		G3/2500
BVH (80°-90°)	71.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5244.8	5244.8	5244.8	5244.8	5244.8	5244.8	5244.8	5244.8	5244.8	5244.8	5244.8
2.5°	4912.4	4929.7	4919.3	4985.1	4988.5	5071.7	5118.4	5158.2	5161.7	5213.6	5248.3
5°	4576.4	4586.8	4586.8	4649.2	4690.7	4801.5	4908.9	5023.2	5031.8	5156.5	5251.7
7.5°	4304.6	4315.0	4308.0	4391.2	4444.8	4567.8	4704.6	4879.5	4896.8	5097.6	5263.9
10°	4091.6	4088.1	4105.5	4181.6	4250.9	4398.1	4550.5	4749.6	4775.6	5030.1	5277.7
12.5°	3946.2	3949.6	3960.0	4039.7	4114.1	4259.6	4417.1	4633.6	4661.3	4952.2	5270.8
15°	3876.9	3870.0	3878.6	3951.4	4022.3	4150.5	4313.2	4536.6	4564.3	4882.9	5272.5
17.5°	3861.3	3856.1	3854.4	3906.3	3960.0	4079.5	4235.3	4462.2	4491.6	4837.9	5282.9
20°	3909.8	3902.9	3883.8	3906.3	3928.8	4029.3	4179.9	4408.5	4441.4	4808.5	5303.7
22.5°	4043.1	4031.0	4001.6	3973.9	3944.4	4005.0	4145.3	4368.7	4401.6	4789.4	5324.5
25°	4245.7	4235.3	4204.2	4141.8	4034.5	4024.1	4138.4	4351.3	4384.2	4775.6	5333.1
27.5°	4524.5	4508.9	4477.7	4387.7	4212.8	4095.1	4164.3	4349.6	4380.8	4760.0	5324.5
30°	4855.2	4844.8	4827.5	4718.4	4484.7	4245.7	4223.2	4363.5	4387.7	4751.3	5307.1
32.5°	5191.1	5180.7	5194.6	5142.6	4855.2	4495.1	4351.3	4401.6	4418.9	4749.6	5291.6
35°	5487.2	5499.3	5599.8	5608.4	5326.2	4832.7	4553.9	4489.9	4493.3	4784.2	5298.5
37.5°	5797.2	5843.9	5975.5	6088.1	5852.6	5279.4	4855.2	4656.1	4652.6	4872.5	5341.8
40°	6207.5	6228.3	6396.3	6607.5	6460.3	5892.4	5282.9	4927.9	4903.7	5052.6	5457.8
42.5°	6607.5	6657.7	6926.1	7168.5	7120.1	6583.3	5821.4	5334.8	5291.6	5371.2	5696.7
45°	7116.6	7165.1	7466.4	7778.0	7866.3	7364.2	6510.6	5913.2	5869.9	5850.8	6134.8
47.5°	7625.7	7675.9	7946.0	8396.2	8706.1	8340.8	7407.5	6676.8	6605.8	6531.3	6796.3
50°	7968.5	8027.4	8285.4	8825.6	9552.9	9559.8	8470.6	7677.6	7587.6	7469.8	7727.8
52.5°	7956.4	7994.5	8240.4	8863.7	10162.4	10960.6	9894.0	8952.0	8879.3	8623.0	8848.1
55°	7331.3	7388.4	7636.0	8415.2	10228.1	12288.7	11985.7	10455.0	10325.1	9866.3	10113.9
57.5°	6075.9	6124.4	6373.8	7334.8	9644.6	12969.2	14641.8	12370.1	12191.7	11220.3	11506.0
60°	4586.8	4528.0	4645.7	5487.2	8249.0	12986.5	16986.3	14967.3	14669.5	12667.9	12906.8
62.5°	3442.3	3383.4	3409.4	3646.6	5592.8	11937.2	18323.1	18520.4	18028.7	14302.4	14255.7
65°	2720.2	2687.3	2761.8	2924.6	3260.5	9090.5	18333.4	22362.7	22052.8	16196.7	15639.2
67.5°	2216.4	2195.6	2271.8	2573.1	2644.0	4884.6	16439.1	24156.6	24277.8	18271.1	16922.2
70°	1785.2	1754.0	1873.5	2270.0	2458.8	2955.7	11776.1	23242.3	23438.0	19507.4	16560.4
72.5°	1232.8	1234.6	1295.2	1838.9	2373.9	2552.3	6661.2	19353.3	19777.5	18387.1	14558.7
75°	831.1	838.1	855.4	1213.8	2186.9	2476.1	3549.6	14652.2	14951.8	15197.6	12034.1
77.5°	502.1	505.6	545.4	734.2	1508.2	2311.6	2405.1	10621.2	10856.7	10018.6	7459.4
80°	290.9	303.0	339.4	491.8	1018.1	1736.7	1861.4	6512.3	6778.9	4453.5	2370.5
82.5°	128.1	136.8	185.3	285.7	593.9	1477.0	1452.8	2573.1	2535.0	1241.5	822.5
85°	22.5	27.7	39.8	90.0	218.2	779.2	1127.2	1135.9	1068.4	471.0	341.1
87.5°	0.0	0.0	0.0	0.0	0.0	5.2	169.7	304.7	303.0	133.3	117.7
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°	5244.8	5244.8	5244.8	5244.8	5244.8	5244.8	5244.8	5244.8	5244.8	5244.8	5244.8
2.5°	5270.8	5224.0	5265.6	5270.8	5262.1	5255.2	5203.2	5158.2	5153.0	5104.6	5104.6
5°	5289.8	5246.5	5267.3	5227.5	5165.2	5101.1	4990.3	4914.1	4879.5	4817.1	4817.1
7.5°	5315.8	5270.8	5246.5	5147.8	5002.4	4862.1	4683.8	4534.9	4474.3	4386.0	4382.5
10°	5340.0	5282.9	5199.8	5007.6	4775.6	4552.2	4292.5	4081.2	3937.5	3831.9	3831.9
12.5°	5338.3	5263.9	5099.4	4815.4	4495.1	4171.3	3825.0	3506.3	3315.9	3151.4	3141.0
15°	5334.8	5232.7	4971.2	4592.0	4167.8	3719.3	3248.4	2832.8	2550.5	2389.5	2375.7
17.5°	5331.4	5192.9	4827.5	4337.5	3769.5	3158.3	2536.7	2086.5	1851.0	1752.3	1755.8
20°	5331.4	5147.8	4673.4	4044.9	3310.7	2486.5	1861.4	1534.1	1475.3	1480.5	1485.7
22.5°	5315.8	5092.4	4502.0	3726.3	2799.9	1828.5	1373.1	1262.3	1293.5	1341.9	1348.9
25°	5279.4	5000.7	4302.9	3373.0	2192.1	1331.5	1120.3	1099.5	1156.7	1217.3	1234.6
27.5°	5222.3	4895.0	4079.5	2959.2	1613.8	1070.1	985.2	983.5	1028.5	1073.5	1089.1
30°	5161.7	4777.3	3844.0	2498.6	1168.8	931.6	898.7	898.7	921.2	948.9	945.4
32.5°	5090.7	4657.8	3591.2	2019.0	952.3	853.6	843.3	838.1	841.5	851.9	851.9
35°	5030.1	4552.2	3331.5	1511.6	853.6	810.4	800.0	787.8	782.7	775.7	779.2
37.5°	5007.6	4469.1	3063.1	1139.3	805.2	779.2	761.9	744.6	732.4	729.0	727.2
40°	5043.9	4434.4	2794.7	938.5	770.5	746.3	727.2	704.7	694.3	694.3	694.3
42.5°	5185.9	4460.4	2521.1	848.4	746.3	718.6	690.9	670.1	666.6	670.1	671.8
45°	5445.7	4560.9	2237.1	803.4	725.5	690.9	658.0	642.4	642.4	645.9	645.9
47.5°	5909.7	4824.0	1956.6	775.7	704.7	668.4	633.7	618.2	616.4	619.9	619.9
50°	6713.1	5298.5	1703.8	756.7	689.1	651.1	616.4	595.6	590.5	588.7	588.7
52.5°	7726.1	6121.0	1542.8	742.8	670.1	632.0	597.4	569.7	559.3	554.1	554.1
55°	8950.3	7217.0	1542.8	732.4	645.9	609.5	569.7	542.0	526.4	519.5	519.5
57.5°	10337.2	8493.2	1809.4	723.8	626.8	583.5	540.2	512.5	495.2	484.8	484.8
60°	11748.4	9842.0	2469.2	711.7	609.5	550.6	507.3	481.4	458.9	446.7	445.0
62.5°	13211.6	11327.7	3338.4	718.6	597.4	519.5	472.7	443.3	424.2	412.1	410.4
65°	14551.8	12742.3	4098.5	772.3	599.1	491.8	432.9	406.9	391.3	375.7	374.0
67.5°	15689.4	13523.3	3565.2	881.3	635.5	458.9	393.1	367.1	353.2	342.8	341.1
70°	14892.9	12332.0	2022.4	948.9	685.7	424.2	348.0	330.7	316.9	309.9	308.2
72.5°	12735.4	10441.1	1352.3	838.1	625.1	379.2	306.5	292.6	282.2	273.6	271.9
75°	10316.5	8280.2	1033.7	687.4	486.6	308.2	263.2	252.8	242.4	233.8	232.0
77.5°	6103.6	4784.2	761.9	543.7	342.8	240.7	218.2	209.5	199.1	192.2	190.5
80°	1948.0	1662.3	483.1	374.0	226.8	185.3	168.0	161.0	150.6	142.0	140.3
82.5°	742.8	642.4	256.3	190.5	150.6	126.4	112.5	105.6	98.7	90.0	88.3
85°	329.0	308.2	142.0	102.2	81.4	62.3	55.4	51.9	43.3	36.4	34.6
87.5°	116.0	116.0	60.6	29.4	17.3	8.7	5.2	1.7	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)