

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: P639847

Luminaire Tested: GWS-SA5C-760-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639847  
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-SA5C-760-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

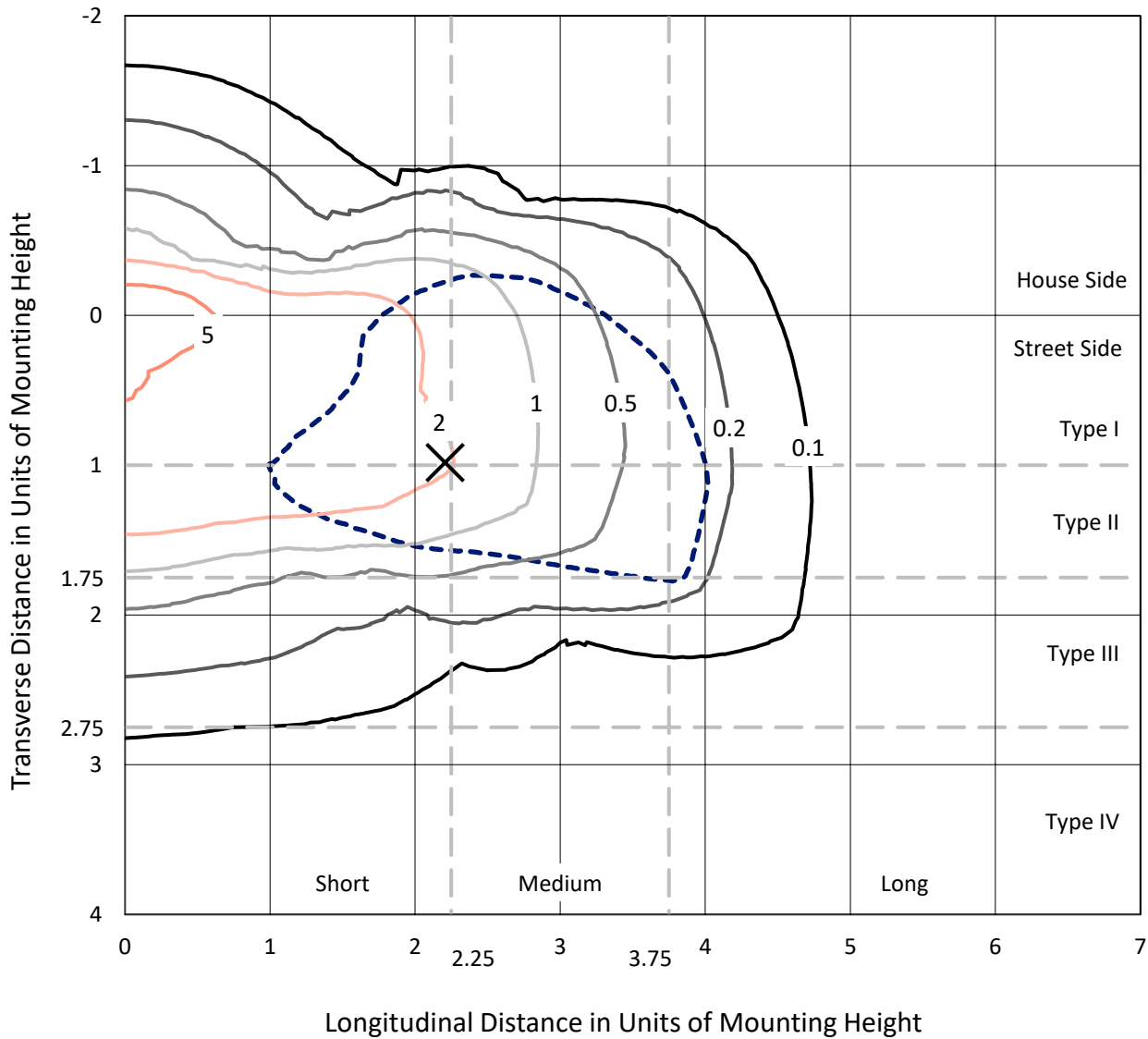
Lumens per Lamp: N/A  
Luminaire Lumens: 23608.4 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

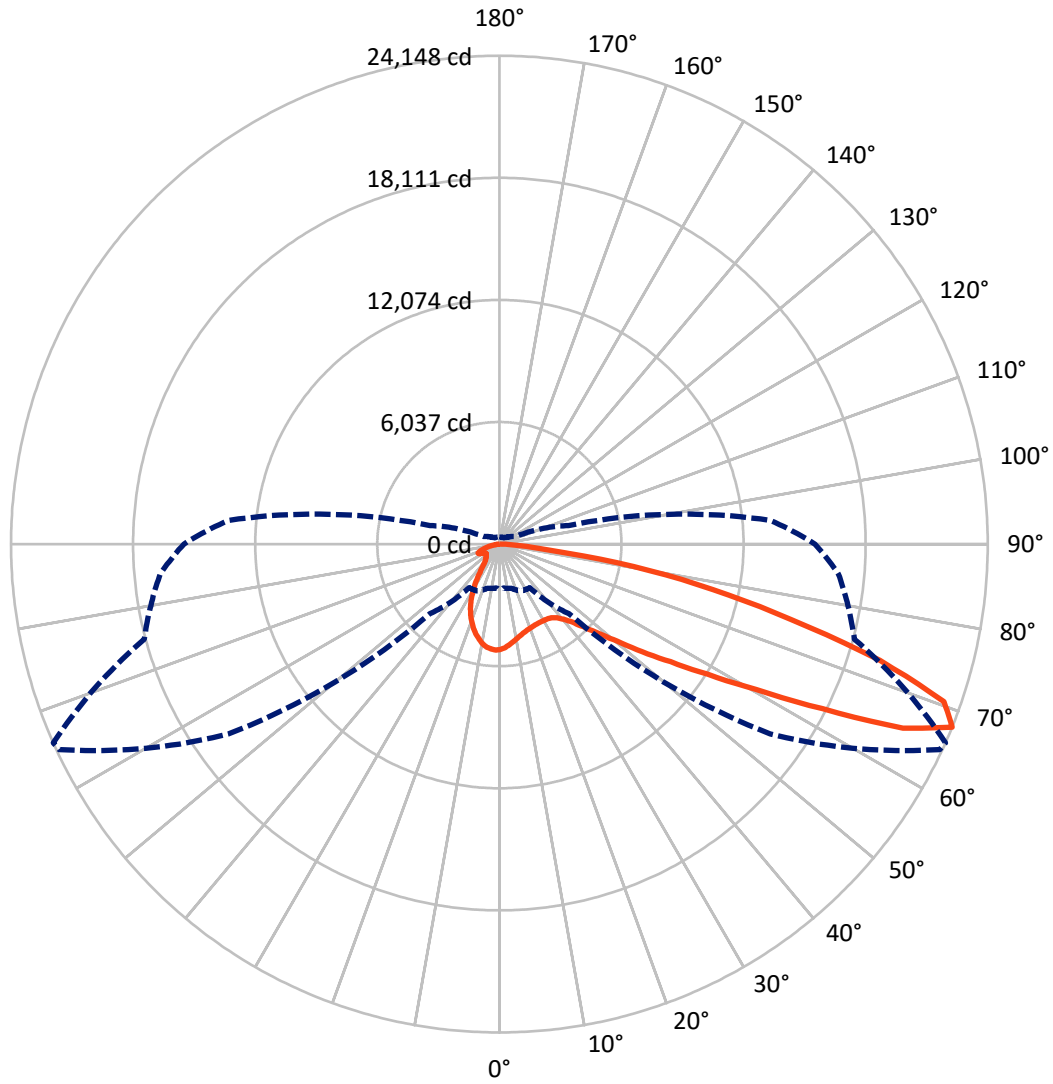
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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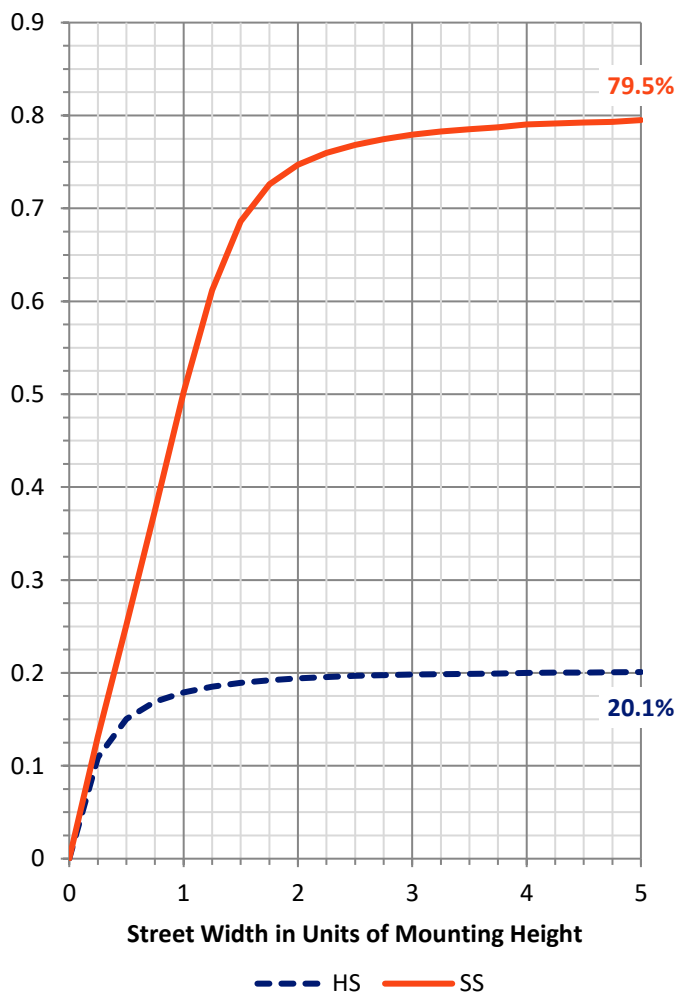
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4790.7	0.0	4790.7
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	18817.7	0.0	18817.7
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	23608.4	0.0	23608.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.8	1.9
10°-20°	1125.2	4.8
20°-30°	1546.6	6.6
30°-40°	2114.5	9.0
40°-50°	3204.0	13.6
50°-60°	4980.7	21.1
60°-70°	6063.9	25.7
70°-80°	3693.8	15.6
80°-90°	421.9	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°	23608.4	100.0
0°-180°	23608.4	100.0

**Coefficient of Utilization**



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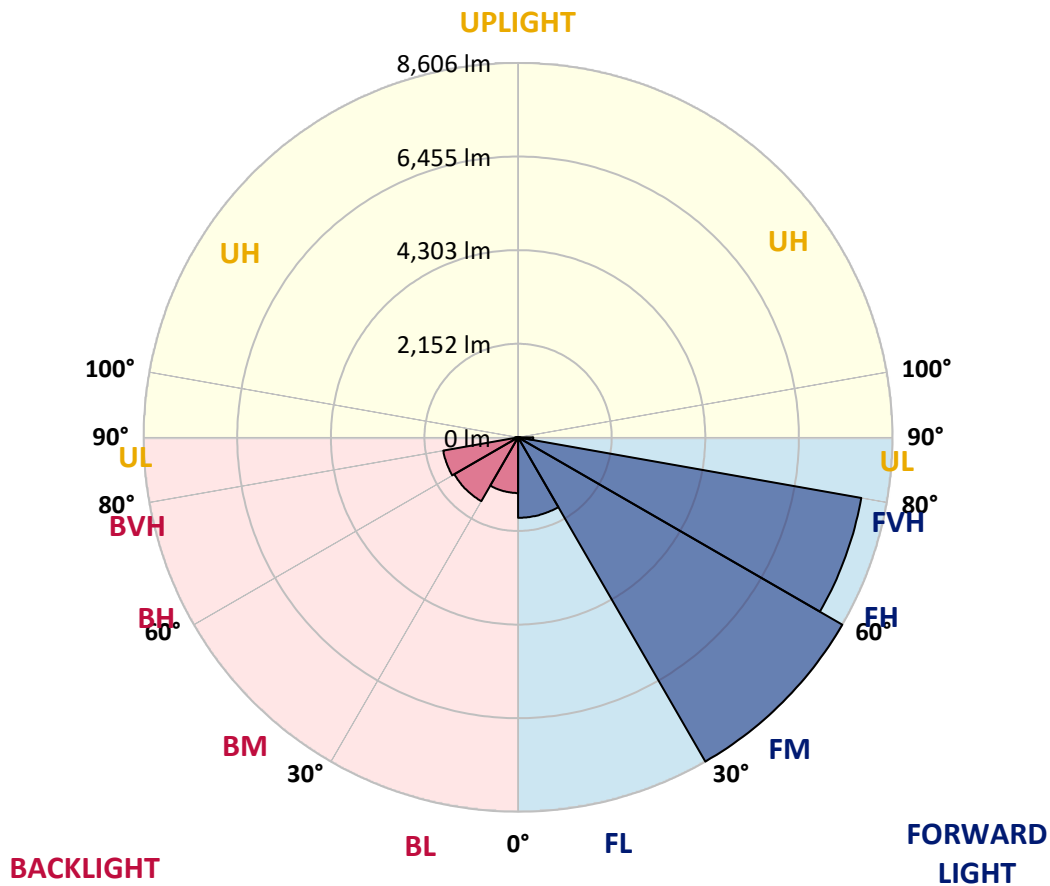
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1849.8	7.8			
FM (30°-60°)	8606.2	36.5			
FH (60°-80°)	8010.9	33.9			G4/12000
FVH (80°-90°)	350.8	1.5			G3/500
BL (0°-30°)	1279.8	5.4	B3/2500		
BM (30°-60°)	1693.0	7.2	B2/2500		
BH (60°-80°)	1746.8	7.4	B3/2500		G3/2500
BVH (80°-90°)	71.1	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°	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8
2.5°	4886.1	4903.3	4893.0	4958.4	4961.9	5044.6	5091.1	5130.7	5134.1	5185.8	5220.2
5°	4552.0	4562.3	4562.3	4624.3	4665.7	4775.9	4882.7	4996.3	5004.9	5128.9	5223.7
7.5°	4281.6	4291.9	4285.0	4367.7	4421.1	4543.4	4679.4	4853.4	4870.6	5070.4	5235.7
10°	4069.7	4066.3	4083.5	4159.3	4228.2	4374.6	4526.2	4724.2	4750.0	5003.2	5249.5
12.5°	3925.1	3928.5	3938.9	4018.1	4092.1	4236.8	4393.5	4608.8	4636.4	4925.7	5242.6
15°	3856.2	3849.3	3857.9	3930.2	4000.9	4128.3	4290.2	4512.4	4539.9	4856.8	5244.3
17.5°	3840.7	3835.5	3833.8	3885.5	3938.9	4057.7	4212.7	4438.3	4467.6	4812.1	5254.7
20°	3888.9	3882.0	3863.1	3885.5	3907.9	4007.7	4157.6	4384.9	4417.6	4782.8	5275.3
22.5°	4021.5	4009.5	3980.2	3952.6	3923.4	3983.6	4123.1	4345.3	4378.0	4763.8	5296.0
25°	4223.0	4212.7	4181.7	4119.7	4012.9	4002.6	4116.2	4328.1	4360.8	4750.0	5304.6
27.5°	4500.3	4484.8	4453.8	4364.3	4190.3	4073.2	4142.1	4326.4	4357.4	4734.5	5296.0
30°	4829.3	4818.9	4801.7	4693.2	4460.7	4223.0	4200.6	4340.1	4364.3	4725.9	5278.8
32.5°	5163.4	5153.1	5166.8	5115.2	4829.3	4471.0	4328.1	4378.0	4395.3	4724.2	5263.3
35°	5457.9	5470.0	5569.9	5578.5	5297.7	4806.9	4529.6	4465.9	4469.3	4758.7	5270.2
37.5°	5766.2	5812.7	5943.6	6055.5	5821.3	5251.2	4829.3	4631.2	4627.8	4846.5	5313.2
40°	6174.4	6195.0	6362.1	6572.2	6425.8	5860.9	5254.7	4901.6	4877.5	5025.6	5428.6
42.5°	6572.2	6622.2	6889.1	7130.2	7082.0	6548.1	5790.3	5306.3	5263.3	5342.5	5666.3
45°	7078.6	7126.8	7426.5	7736.5	7824.3	7324.9	6475.8	5881.6	5838.5	5819.6	6102.0
47.5°	7584.9	7634.9	7903.5	8351.3	8659.6	8296.2	7367.9	6641.1	6570.5	6496.4	6759.9
50°	7925.9	7984.5	8241.1	8778.5	9501.8	9508.7	8425.4	7636.6	7547.0	7429.9	7686.5
52.5°	7913.9	7951.8	8196.3	8816.4	10108.1	10902.0	9841.1	8904.2	8831.9	8577.0	8800.9
55°	7292.1	7349.0	7595.3	8370.3	10173.5	12223.0	11921.6	10399.1	10270.0	9813.6	10059.8
57.5°	6043.5	6091.7	6339.7	7295.6	9593.1	12899.9	14563.6	12304.0	12126.6	11160.4	11444.6
60°	4562.3	4503.8	4620.9	5457.9	8204.9	12917.1	16895.6	14887.4	14591.2	12600.2	12837.9
62.5°	3423.9	3365.3	3391.2	3627.1	5563.0	11873.4	18225.2	18421.5	17932.4	14226.0	14179.5
65°	2705.7	2673.0	2747.0	2908.9	3243.1	9042.0	18235.5	22243.2	21935.0	16110.2	15555.6
67.5°	2204.5	2183.9	2259.6	2559.3	2629.9	4858.6	16351.3	24027.5	24148.1	18173.5	16831.8
70°	1775.7	1744.7	1863.5	2257.9	2445.6	2939.9	11713.2	23118.2	23312.8	19403.2	16471.9
72.5°	1226.3	1228.0	1288.3	1829.1	2361.2	2538.6	6625.6	19249.9	19671.9	18288.9	14480.9
75°	826.7	833.6	850.8	1207.3	2175.2	2462.9	3530.7	14573.9	14871.9	15116.5	11969.8
77.5°	499.5	502.9	542.5	730.2	1500.1	2299.2	2392.2	10564.5	10798.7	9965.1	7419.6
80°	289.3	301.4	337.6	489.1	1012.7	1727.4	1851.5	6477.5	6742.7	4429.7	2357.8
82.5°	127.4	136.1	184.3	284.2	590.7	1469.1	1445.0	2559.3	2521.4	1234.9	818.1
85°	22.4	27.6	39.6	89.6	217.0	775.0	1121.2	1129.8	1062.6	468.5	339.3
87.5°	0.0	0.0	0.0	0.0	0.0	5.2	168.8	303.1	301.4	132.6	117.1
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°	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8
2.5°	5242.6	5196.1	5237.5	5242.6	5234.0	5227.1	5175.5	5130.7	5125.5	5077.3	5077.3
5°	5261.6	5218.5	5239.2	5199.6	5137.6	5073.8	4963.6	4887.8	4853.4	4791.4	4791.4
7.5°	5287.4	5242.6	5218.5	5120.3	4975.7	4836.2	4658.8	4510.7	4450.4	4362.5	4359.1
10°	5311.5	5254.7	5172.0	4980.8	4750.0	4527.9	4269.5	4059.4	3916.5	3811.4	3811.4
12.5°	5309.8	5235.7	5072.1	4789.7	4471.0	4149.0	3804.5	3487.6	3298.2	3134.5	3124.2
15°	5306.3	5204.7	4944.7	4567.5	4145.5	3699.5	3231.0	2817.7	2536.9	2376.7	2363.0
17.5°	5302.9	5165.1	4801.7	4314.3	3749.4	3141.4	2523.1	2075.3	1841.1	1742.9	1746.4
20°	5302.9	5120.3	4648.4	4023.2	3293.0	2473.2	1851.5	1525.9	1467.4	1472.5	1477.7
22.5°	5287.4	5065.2	4477.9	3706.3	2784.9	1818.7	1365.8	1255.5	1286.5	1334.8	1341.7
25°	5251.2	4973.9	4279.9	3355.0	2180.4	1324.4	1114.3	1093.6	1150.5	1210.8	1228.0
27.5°	5194.4	4868.9	4057.7	2943.4	1605.2	1064.4	980.0	978.3	1023.0	1067.8	1083.3
30°	5134.1	4751.8	3823.5	2485.3	1162.5	926.6	893.9	893.9	916.3	943.8	940.4
32.5°	5063.5	4632.9	3572.0	2008.2	947.3	849.1	838.8	833.6	837.0	847.4	847.4
35°	5003.2	4527.9	3313.7	1503.6	849.1	806.0	795.7	783.6	778.5	771.6	775.0
37.5°	4980.8	4445.2	3046.7	1133.3	800.9	775.0	757.8	740.6	728.5	725.1	723.4
40°	5017.0	4410.8	2779.8	933.5	766.4	742.3	723.4	701.0	690.6	690.6	690.6
42.5°	5158.2	4436.6	2507.6	843.9	742.3	714.7	687.2	666.5	663.1	666.5	668.2
45°	5416.6	4536.5	2225.2	799.1	721.6	687.2	654.5	639.0	639.0	642.4	642.4
47.5°	5878.1	4798.3	1946.2	771.6	701.0	664.8	630.4	614.9	613.1	616.6	616.6
50°	6677.3	5270.2	1694.7	752.6	685.5	647.6	613.1	592.5	587.3	585.6	585.6
52.5°	7684.8	6088.3	1534.6	738.9	666.5	628.6	594.2	566.6	556.3	551.1	551.1
55°	8902.5	7178.5	1534.6	728.5	642.4	606.2	566.6	539.1	523.6	516.7	516.7
57.5°	10282.0	8447.8	1799.8	719.9	623.5	580.4	537.4	509.8	492.6	482.2	482.2
60°	11685.7	9789.4	2456.0	707.9	606.2	547.7	504.6	478.8	456.4	444.3	442.6
62.5°	13141.0	11267.2	3320.6	714.7	594.2	516.7	470.2	440.9	422.0	409.9	408.2
65°	14474.0	12674.3	4076.6	768.1	595.9	489.1	430.6	404.7	389.2	373.7	372.0
67.5°	15605.6	13451.0	3546.2	876.6	632.1	456.4	391.0	365.1	351.3	341.0	339.3
70°	14813.3	12266.1	2011.6	943.8	682.0	422.0	346.2	329.0	315.2	308.3	306.6
72.5°	12667.4	10385.3	1345.1	833.6	621.7	377.2	304.8	291.1	280.7	272.1	270.4
75°	10261.3	8235.9	1028.2	683.7	484.0	306.6	261.8	251.5	241.1	232.5	230.8
77.5°	6071.0	4758.7	757.8	540.8	341.0	239.4	217.0	208.4	198.1	191.2	189.5
80°	1937.6	1653.4	480.5	372.0	225.6	184.3	167.1	160.2	149.8	141.2	139.5
82.5°	738.9	639.0	254.9	189.5	149.8	125.7	111.9	105.1	98.2	89.6	87.8
85°	327.2	306.6	141.2	101.6	80.9	62.0	55.1	51.7	43.1	36.2	34.4
87.5°	115.4	115.4	60.3	29.3	17.2	8.6	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)