

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: P643941

Luminaire Tested: GWS-SA6F-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643941  
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-SAGF-830-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

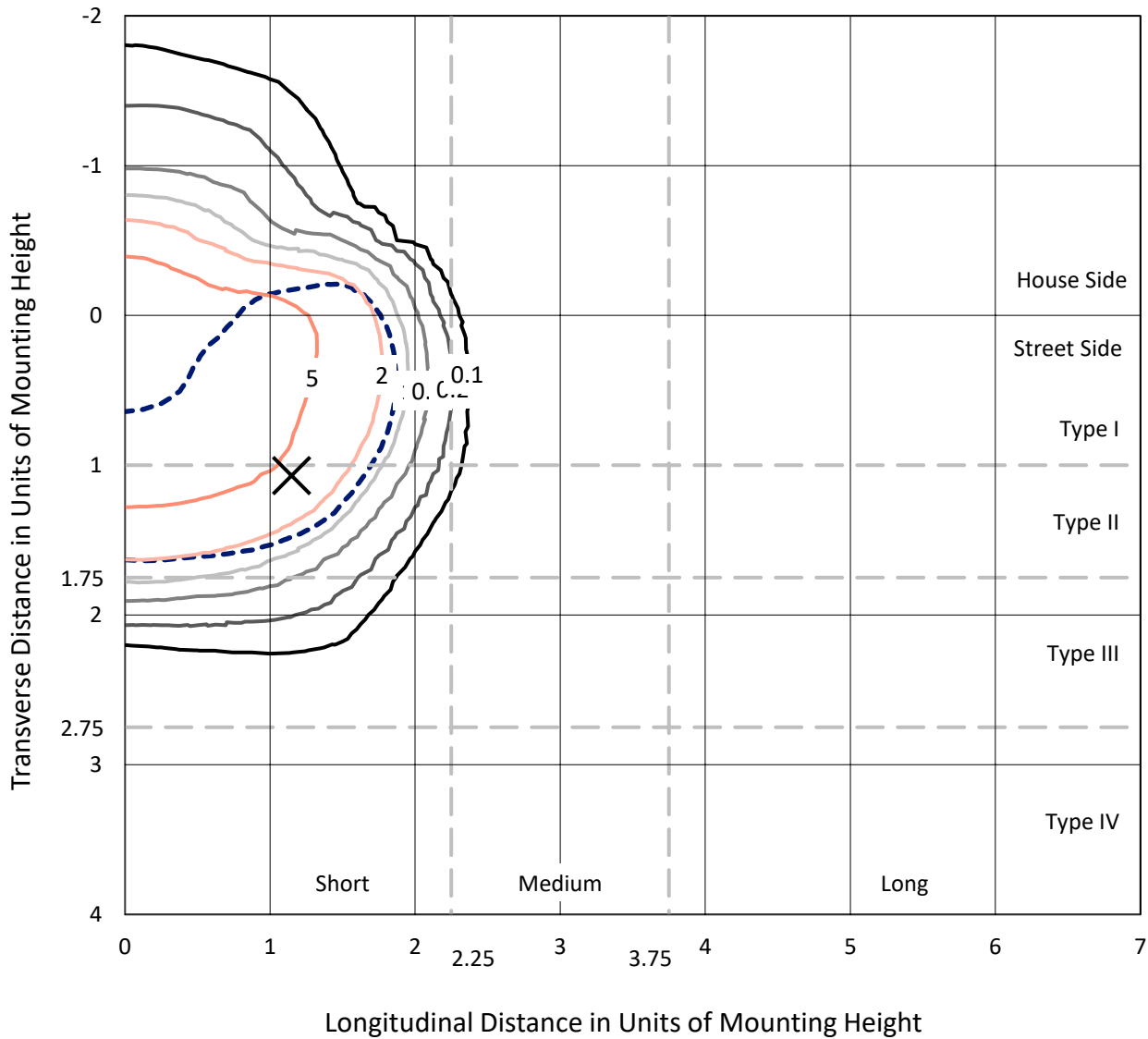
Lumens per Lamp: N/A  
Luminaire Lumens: 24414.5 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

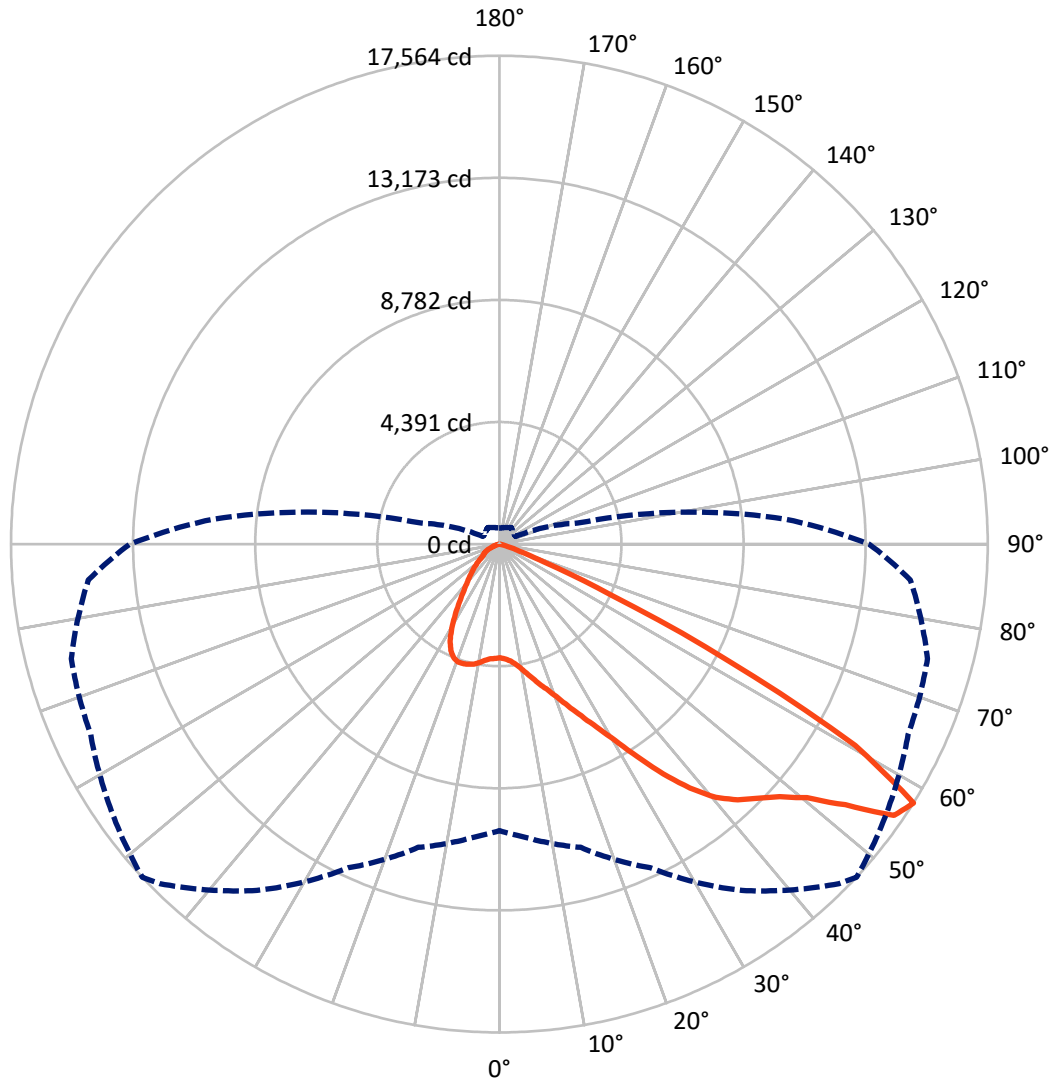
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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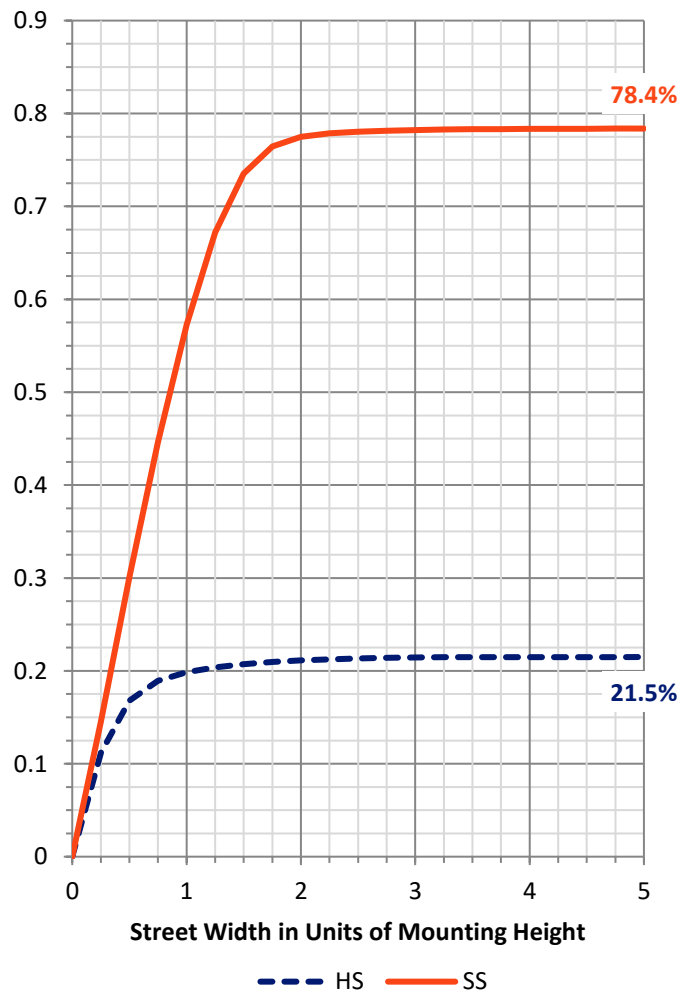
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5296.7	0.0	5296.7
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	19117.8	0.0	19117.8
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	24414.5	0.0	24414.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.6	1.7
10°-20°	1372.0	5.6
20°-30°	2547.5	10.4
30°-40°	4078.0	16.7
40°-50°	5961.1	24.4
50°-60°	7357.1	30.1
60°-70°	2458.3	10.1
70°-80°	229.1	0.9
80°-90°	4.7	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°	24414.5	100.0
0°-180°	24414.5	100.0

**Coefficient of Utilization**



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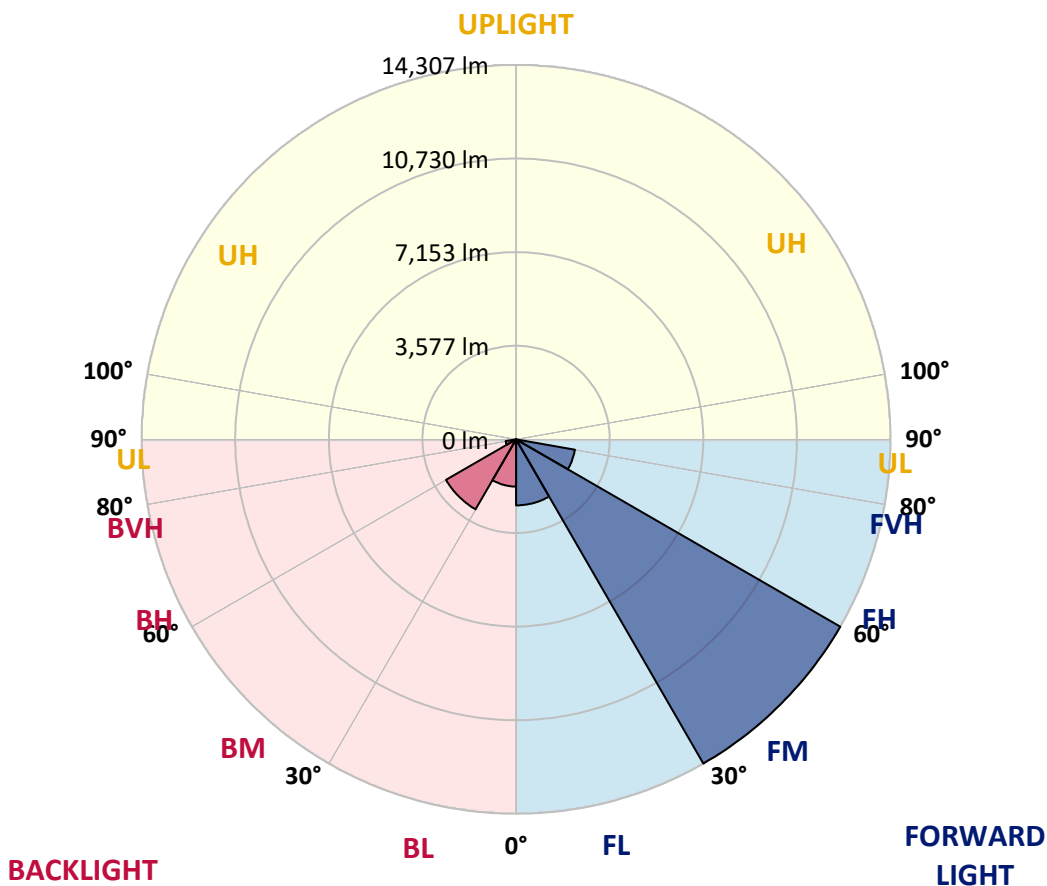
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2523.2	10.3			
FM (30°-60°)	14306.7	58.6			
FH (60°-80°)	2284.7	9.4			G2/5000
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	1802.9	7.4	B3/2500		
BM (30°-60°)	3089.6	12.7	B3/5000		
BH (60°-80°)	402.7	1.6	B1/500		G1/500
BVH (80°-90°)	1.5	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4087.0	4087.0	4087.0	4087.0	4087.0	4087.0	4087.0	4087.0	4087.0	4087.0	4087.0
2.5°	4129.5	4126.7	4123.9	4140.9	4135.2	4132.4	4138.0	4138.0	4138.0	4121.0	4087.0
5°	4228.7	4228.7	4225.9	4242.9	4228.7	4220.2	4223.1	4223.1	4211.7	4180.5	4138.0
7.5°	4384.6	4378.9	4373.3	4390.3	4376.1	4373.3	4378.9	4361.9	4342.1	4291.1	4231.6
10°	4608.5	4608.5	4600.0	4617.0	4605.7	4600.0	4600.0	4588.7	4551.8	4472.5	4384.6
12.5°	4917.5	4903.3	4883.4	4869.3	4863.6	4860.8	4863.6	4846.6	4806.9	4704.9	4583.0
15°	5254.7	5243.4	5212.2	5189.5	5158.4	5152.7	5169.7	5155.5	5115.9	4977.0	4804.1
17.5°	5679.9	5694.0	5614.7	5566.5	5475.8	5470.1	5475.8	5498.5	5470.1	5291.6	5039.3
20°	6042.7	6054.0	5994.5	5960.5	5878.3	5841.4	5852.8	5889.6	5858.4	5648.7	5297.2
22.5°	6431.0	6445.1	6382.8	6311.9	6275.1	6275.1	6317.6	6368.6	6326.1	6051.2	5592.0
25°	6895.8	6907.1	6856.1	6762.6	6697.4	6779.6	6841.9	6978.0	6907.1	6533.0	5940.6
27.5°	7428.6	7431.4	7357.8	7261.4	7227.4	7380.4	7442.8	7652.5	7624.2	7074.3	6309.1
30°	7998.3	8001.1	7984.1	7918.9	7887.8	8089.0	8174.0	8477.3	8457.5	7746.1	6810.7
32.5°	8590.7	8590.7	8621.8	8616.2	8653.0	8981.8	9117.8	9463.6	9443.8	8568.0	7434.3
35°	9185.9	9188.7	9242.5	9378.6	9531.6	9968.1	10146.7	10566.1	10520.8	9551.5	8230.7
37.5°	9863.3	9834.9	9908.6	10112.7	10452.8	10957.3	11127.3	11527.0	11475.9	10557.6	9270.9
40°	10679.5	10628.5	10628.5	10866.6	11252.0	11833.1	11977.6	12176.0	12003.1	11371.1	10291.2
42.5°	11580.8	11532.6	11470.3	11680.0	12003.1	12456.6	12575.6	12521.8	12380.1	12139.2	11453.3
45°	12493.5	12419.8	12462.3	12589.8	12776.9	12992.3	13037.6	12788.2	12723.0	12791.0	12414.1
47.5°	13187.8	13136.8	13241.7	13420.3	13573.3	13604.5	13573.3	13227.5	13221.9	13462.8	13080.1
50°	13420.3	13425.9	13715.0	14106.1	14352.7	14378.2	14335.7	13938.9	13885.1	13955.9	13440.1
52.5°	13442.9	13465.6	13887.9	14633.3	15305.0	15611.1	15577.1	15149.2	14622.0	14545.5	13984.3
55°	12895.9	13029.1	13618.7	14707.0	16135.5	17113.3	17226.7	16407.6	15625.3	15560.1	15154.8
57.5°	10308.2	10580.3	11291.7	12842.1	15208.7	17269.2	17564.0	16974.4	16217.7	15939.9	14840.2
60°	6161.7	6499.0	7182.0	9083.8	11575.1	14194.0	14701.3	14783.5	14434.9	13632.8	11385.3
62.5°	2644.4	2616.0	3457.8	4914.6	6884.4	9021.5	9251.0	9608.2	9911.4	9072.5	6909.9
65°	907.0	986.3	1371.8	2216.4	3446.5	4189.0	4393.1	4713.4	5144.2	4245.7	2531.0
67.5°	561.2	595.2	790.8	1309.4	1859.3	1830.9	1740.2	1689.2	1643.9	1125.2	694.4
70°	408.1	436.5	555.5	901.3	1249.9	878.6	762.4	617.9	685.9	632.0	493.2
72.5°	274.9	297.6	382.6	547.0	640.5	428.0	396.8	450.6	544.2	518.7	402.5
75°	164.4	178.6	218.2	266.4	260.8	221.1	223.9	317.4	416.6	388.3	286.3
77.5°	113.4	119.0	144.5	172.9	127.5	68.0	62.4	87.9	141.7	141.7	96.4
80°	28.3	36.8	36.8	22.7	19.8	17.0	17.0	25.5	39.7	28.3	14.2
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.7	5.7	5.7	5.7
85°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	5.7	5.7	5.7
87.5°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.7	5.7
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°	4087.0	4087.0	4087.0	4087.0	4087.0	4087.0	4087.0	4087.0	4087.0	4087.0	4087.0
2.5°	4106.9	4072.8	4095.5	4089.8	4106.9	4112.5	4087.0	4081.3	4084.2	4050.2	4038.8
5°	4146.5	4106.9	4118.2	4106.9	4126.7	4143.7	4135.2	4146.5	4160.7	4135.2	4123.9
7.5°	4231.6	4191.9	4189.0	4172.0	4200.4	4211.7	4208.9	4240.1	4268.4	4251.4	4234.4
10°	4378.9	4325.1	4319.4	4305.3	4313.8	4322.3	4291.1	4296.7	4322.3	4302.4	4293.9
12.5°	4560.3	4495.1	4481.0	4447.0	4447.0	4404.5	4336.4	4322.3	4342.1	4327.9	4313.8
15°	4755.9	4668.0	4645.4	4585.8	4529.2	4449.8	4378.9	4361.9	4376.1	4359.1	4347.8
17.5°	4974.1	4874.9	4801.2	4696.4	4571.7	4478.1	4398.8	4361.9	4339.3	4305.3	4302.4
20°	5189.5	5059.2	4934.5	4767.2	4602.9	4461.1	4330.8	4234.4	4152.2	4101.2	4081.3
22.5°	5439.0	5246.2	5045.0	4809.8	4574.5	4359.1	4129.5	3965.1	3823.4	3775.2	3752.6
25°	5705.4	5456.0	5155.5	4849.4	4478.1	4132.4	3820.6	3576.8	3389.8	3327.4	3301.9
27.5°	6000.1	5657.2	5268.9	4840.9	4279.7	3809.3	3395.5	3092.2	2908.0	2851.3	2871.1
30°	6374.3	5918.0	5410.6	4753.1	3982.1	3355.8	2871.1	2616.0	2477.1	2423.3	2426.1
32.5°	6873.1	6292.1	5617.5	4566.0	3599.5	2839.9	2414.8	2227.7	2134.2	2063.3	2057.7
35°	7587.3	6861.8	5810.2	4265.6	3134.7	2380.8	2071.8	1924.5	1794.1	1711.9	1726.1
37.5°	8443.3	7578.8	5915.1	3860.3	2613.2	2023.7	1813.9	1663.7	1516.3	1394.5	1408.6
40°	9458.0	8517.0	5906.6	3327.4	2137.0	1779.9	1598.5	1422.8	1238.6	1128.0	1139.4
42.5°	10588.8	9404.1	5722.4	2763.4	1771.4	1581.5	1391.6	1170.6	992.0	924.0	926.8
45°	11569.5	10124.0	5399.3	2179.6	1490.8	1388.8	1176.2	949.5	870.1	821.9	819.1
47.5°	12295.1	10651.2	4937.3	1714.7	1264.1	1213.1	966.5	850.3	787.9	748.2	742.6
50°	12700.4	10835.4	4427.1	1343.4	1068.5	1028.8	864.5	770.9	728.4	702.9	697.2
52.5°	13244.5	11056.5	4061.5	1060.0	895.6	841.8	796.4	717.1	688.7	668.9	660.4
55°	14106.1	11484.5	3744.1	841.8	745.4	734.1	751.1	685.9	668.9	637.7	626.4
57.5°	13295.5	10316.7	2908.0	651.9	629.2	671.7	725.6	654.7	612.2	583.9	572.5
60°	9355.9	6858.9	1462.5	524.3	561.2	629.2	683.1	592.4	549.8	555.5	549.8
62.5°	5158.4	3432.3	657.6	439.3	487.5	555.5	583.9	513.0	484.7	532.8	541.3
65°	1686.4	1167.7	379.8	340.1	385.5	453.5	504.5	487.5	481.8	538.5	555.5
67.5°	518.7	385.5	257.9	243.7	266.4	334.4	425.1	527.2	566.9	583.9	592.4
70°	388.3	303.3	221.1	206.9	218.2	255.1	360.0	439.3	413.8	416.6	411.0
72.5°	311.8	240.9	189.9	181.4	181.4	175.7	189.9	238.1	269.3	283.4	283.4
75°	218.2	170.1	144.5	133.2	104.9	85.0	76.5	76.5	68.0	65.2	62.4
77.5°	73.7	62.4	56.7	45.3	31.2	25.5	22.7	19.8	14.2	8.5	5.7
80°	11.3	8.5	5.7	5.7	5.7	2.8	2.8	2.8	0.0	0.0	0.0
82.5°	5.7	5.7	5.7	5.7	5.7	2.8	2.8	0.0	0.0	0.0	0.0
85°	5.7	5.7	5.7	5.7	5.7	2.8	2.8	0.0	0.0	0.0	0.0
87.5°	5.7	5.7	5.7	5.7	2.8	2.8	2.8	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)