

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: P643207

Luminaire Tested: GWS-SA6E-740-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-740-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

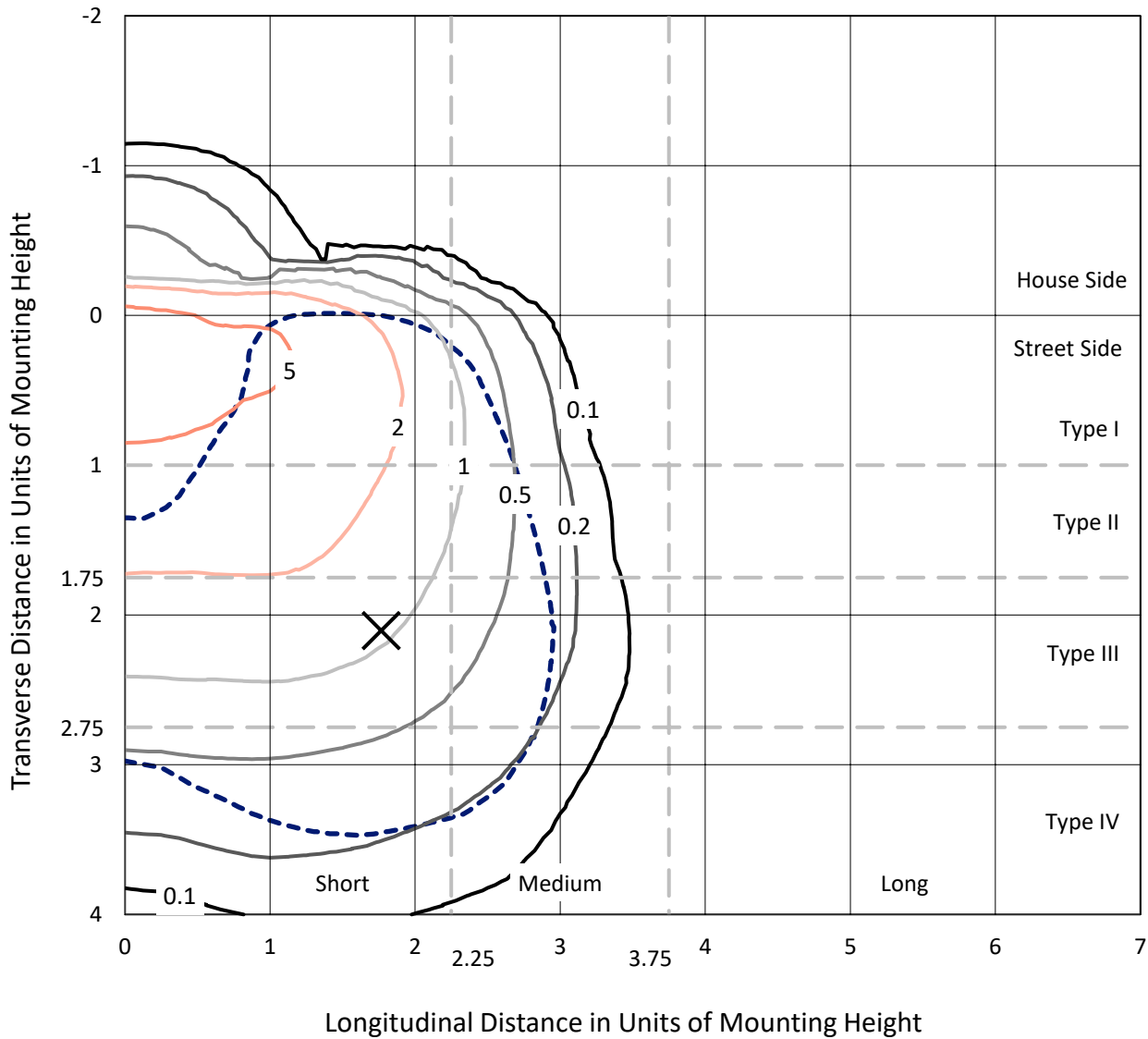
Lumens per Lamp: N/A  
Luminaire Lumens: 35270.6 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

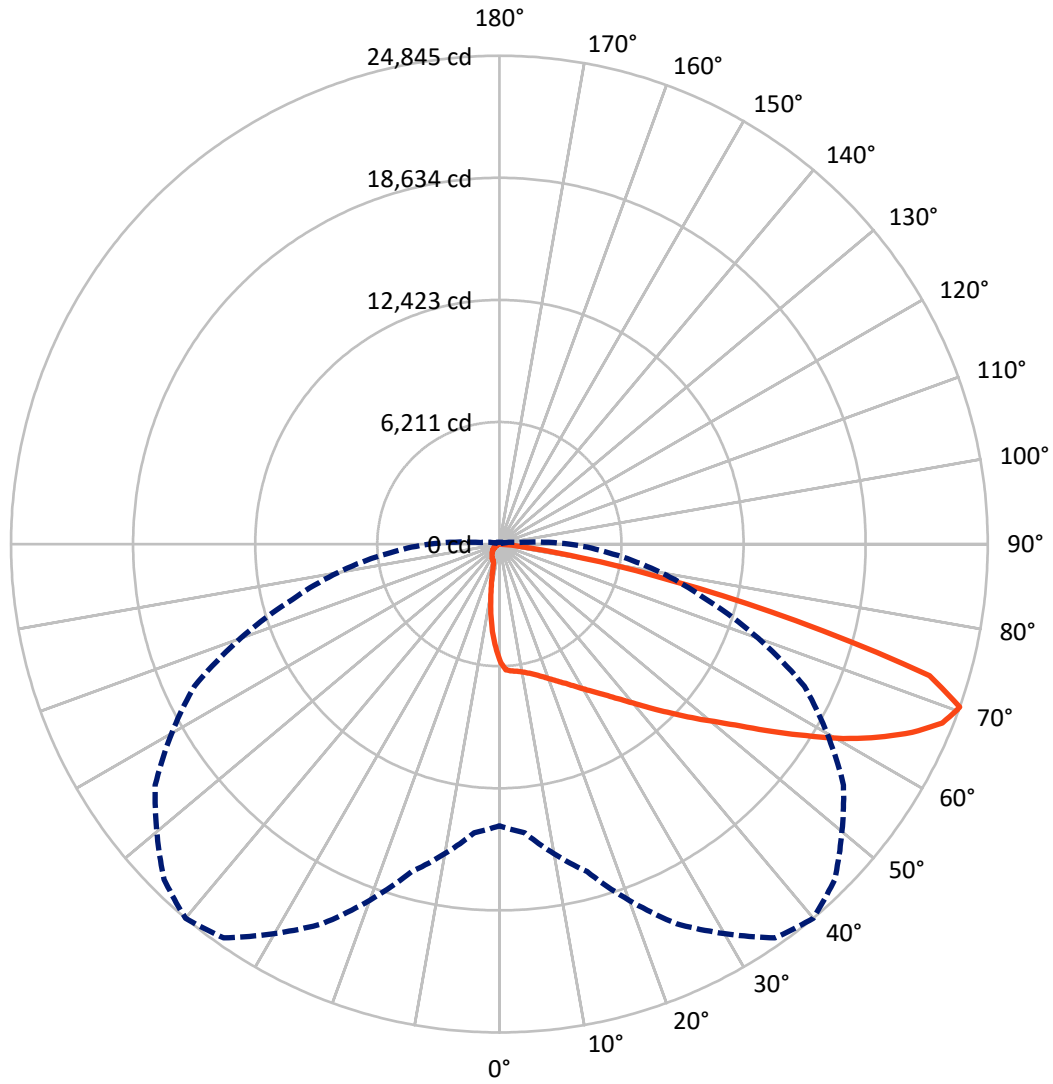
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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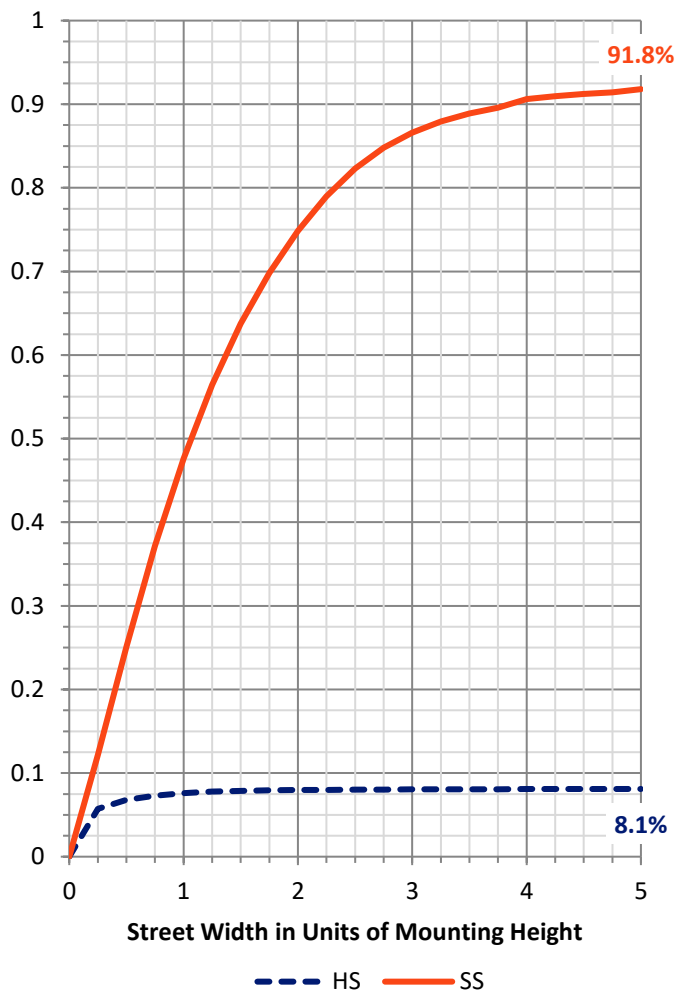
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2884.2	0.0	2884.2
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	32386.4	0.0	32386.4
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	35270.6	0.0	35270.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	505.9	1.4
10°-20°	1283.0	3.6
20°-30°	2147.3	6.1
30°-40°	3372.5	9.6
40°-50°	5334.5	15.1
50°-60°	7781.7	22.1
60°-70°	9646.6	27.4
70°-80°	4880.6	13.8
80°-90°	318.6	0.9
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°	35270.6	100.0
0°-180°	35270.6	100.0

**Coefficient of Utilization**



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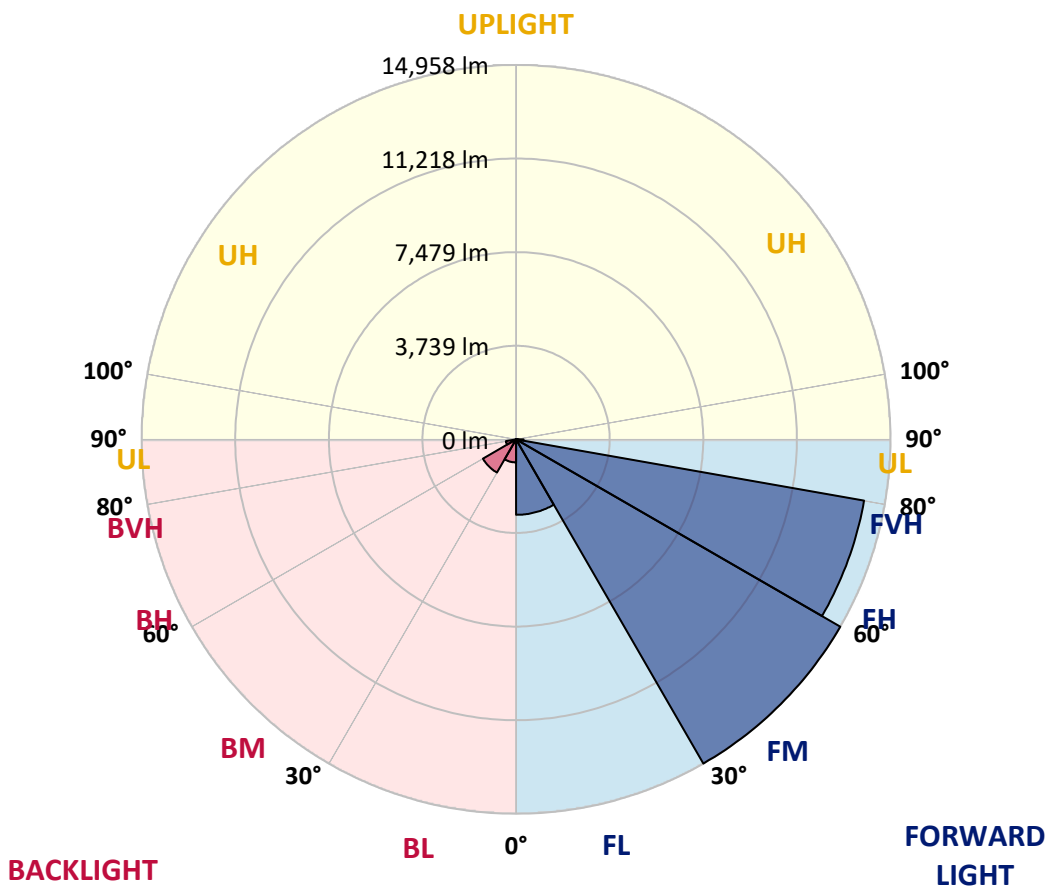
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3015.0	8.5			
FM (30°-60°)	14957.9	42.4			
FH (60°-80°)	14115.9	40.0			G5
FVH (80°-90°)	297.6	0.8			G3/500
BL (0°-30°)	921.1	2.6	B2/1000		
BM (30°-60°)	1530.9	4.3	B2/2500		
BH (60°-80°)	411.2	1.2	B1/500		G1/500
BVH (80°-90°)	21.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5985.0	5985.0	5985.0	5985.0	5985.0	5985.0	5985.0	5985.0	5985.0	5985.0	5985.0
2.5°	6434.3	6456.7	6453.5	6463.2	6440.7	6405.4	6399.0	6350.8	6264.2	6155.1	6033.1
5°	6565.8	6591.5	6572.3	6562.6	6520.9	6482.4	6472.8	6421.4	6322.0	6174.3	5962.5
7.5°	6678.2	6684.6	6671.7	6649.3	6588.3	6537.0	6501.7	6431.1	6312.3	6164.7	5920.8
10°	6697.4	6694.2	6700.6	6703.8	6665.3	6620.4	6591.5	6495.2	6344.4	6187.2	5924.0
12.5°	6675.0	6675.0	6716.7	6764.8	6764.8	6742.3	6713.5	6626.8	6450.3	6264.2	5988.2
15°	6703.8	6713.5	6793.7	6883.5	6912.4	6890.0	6877.1	6787.3	6604.4	6399.0	6103.7
17.5°	6806.5	6816.2	6944.5	7079.3	7114.6	7088.9	7063.3	6973.4	6777.6	6553.0	6235.3
20°	6957.4	6983.0	7146.7	7320.0	7352.1	7320.0	7268.6	7143.5	6947.7	6719.9	6360.5
22.5°	7233.3	7249.4	7425.9	7608.8	7624.9	7573.5	7496.5	7323.2	7117.8	6896.4	6501.7
25°	7599.2	7621.6	7798.1	7974.6	7932.9	7855.9	7750.0	7554.3	7320.0	7105.0	6681.4
27.5°	8035.6	8061.3	8234.6	8388.6	8279.5	8189.7	8070.9	7827.0	7589.6	7393.8	6912.4
30°	8507.4	8529.8	8683.9	8821.9	8677.4	8571.5	8430.3	8180.0	7939.3	7791.7	7239.8
32.5°	8963.1	8959.8	9107.5	9219.8	9072.2	8988.7	8860.4	8606.8	8414.3	8350.1	7727.5
35°	9386.7	9386.7	9508.6	9620.9	9515.0	9470.1	9351.4	9149.2	9040.1	9117.1	8379.0
37.5°	9813.5	9791.0	9906.5	10031.7	10022.1	10025.3	9957.9	9861.6	9868.0	10140.8	9274.3
40°	10166.5	10156.8	10291.6	10455.3	10583.7	10686.4	10644.6	10679.9	10882.1	11392.4	10420.0
42.5°	10448.9	10471.3	10644.6	10904.6	11228.7	11437.3	11466.2	11610.6	12130.5	12919.9	11713.3
45°	10773.0	10776.2	11016.9	11414.8	11931.5	12262.0	12377.6	12749.8	13487.9	14505.2	13131.7
47.5°	11170.9	11132.4	11402.0	11960.4	12708.1	13195.9	13401.3	13866.6	15009.0	16052.0	14287.0
50°	11610.6	11540.0	11844.8	12605.4	13577.8	14187.5	14604.7	15285.0	16517.3	17322.8	15147.0
52.5°	12120.8	12053.4	12400.0	13346.7	14620.7	15362.0	15898.0	16584.7	17810.6	18292.0	15660.5
55°	12769.1	12701.7	13067.5	14235.6	15853.0	16815.8	17377.4	17955.0	19014.0	19007.6	16032.7
57.5°	13487.9	13394.8	13901.9	15358.8	17390.2	18391.4	18962.7	19245.1	19928.6	19562.8	16283.0
60°	14312.6	14229.2	14932.0	16697.0	19164.8	20092.3	20451.7	20336.2	20679.5	19890.1	16196.4
62.5°	15057.2	15018.7	15891.5	18115.4	20856.0	21639.1	21738.5	21234.7	21231.5	19896.5	15612.3
65°	15830.6	15904.4	17200.9	19748.9	22556.9	23083.2	22913.1	22126.8	21452.9	19110.3	13885.8
67.5°	16119.4	16334.4	18064.1	21225.1	23898.3	24309.0	24010.6	22572.9	20531.9	16466.0	10574.0
70°	14335.1	14739.5	17249.0	21308.5	24453.5	24845.0	24129.3	21372.7	17117.4	10907.8	5792.5
72.5°	10901.4	11373.1	14373.6	17448.0	21992.1	22884.2	21661.5	17412.7	11032.9	4778.4	1944.7
75°	6100.5	6610.8	10705.6	13138.1	14765.1	15580.2	15131.0	11170.9	4887.5	1248.3	580.8
77.5°	2063.5	2233.5	4980.5	8128.7	9746.1	9014.4	7631.3	5548.6	1797.1	474.9	308.1
80°	1222.7	1286.9	1854.9	4046.7	5128.2	4252.1	3356.7	2050.6	914.6	253.5	215.0
82.5°	365.8	433.2	1023.7	1501.9	2008.9	1251.6	1059.0	1171.3	474.9	138.0	179.7
85°	0.0	0.0	218.2	465.3	526.3	205.4	205.4	664.3	86.6	57.8	131.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	16.0	9.6	12.8	28.9
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°	5985.0	5985.0	5985.0	5985.0	5985.0	5985.0	5985.0	5985.0	5985.0	5985.0	5985.0
2.5°	5946.5	5834.2	5702.6	5577.4	5458.7	5304.7	5230.9	5141.0	5064.0	5022.3	5044.7
5°	5827.8	5651.3	5381.7	5108.9	4832.9	4573.0	4338.7	4181.5	4040.3	3966.5	3982.5
7.5°	5725.1	5487.6	5067.2	4621.1	4178.3	3732.2	3369.6	3087.2	2868.9	2779.1	2763.0
10°	5680.1	5381.7	4788.0	4146.2	3465.8	2865.7	2352.3	2041.0	1819.6	1710.5	1729.7
12.5°	5702.6	5327.1	4550.5	3680.9	2798.3	2098.8	1607.8	1315.7	1158.5	1094.3	1078.3
15°	5766.8	5314.3	4338.7	3205.9	2159.7	1466.6	1110.4	991.6	959.5	953.1	953.1
17.5°	5840.6	5317.5	4120.5	2724.5	1639.9	1087.9	949.9	927.4	917.8	911.4	914.6
20°	5914.4	5317.5	3870.2	2236.8	1232.3	940.3	905.0	888.9	879.3	876.1	876.1
22.5°	6004.3	5317.5	3591.0	1784.3	988.4	892.1	863.3	853.6	844.0	840.8	837.6
25°	6113.4	5320.7	3282.9	1396.0	898.6	850.4	828.0	818.3	808.7	802.3	802.3
27.5°	6270.6	5346.4	2942.8	1087.9	847.2	811.9	792.7	783.0	773.4	763.8	763.8
30°	6498.5	5410.6	2560.9	898.6	799.1	770.2	750.9	744.5	734.9	725.3	722.1
32.5°	6838.6	5522.9	2166.2	805.5	754.1	725.3	702.8	696.4	686.8	677.1	673.9
35°	7313.6	5728.3	1781.1	747.7	696.4	667.5	654.7	651.5	638.6	629.0	629.0
37.5°	8009.9	6062.0	1412.0	690.0	648.2	625.8	609.7	603.3	590.5	580.8	577.6
40°	8860.4	6495.2	1097.5	645.0	603.3	580.8	564.8	555.2	539.1	526.3	519.9
42.5°	9945.0	7024.8	866.5	596.9	561.6	539.1	526.3	507.0	484.6	465.3	462.1
45°	11074.7	7570.3	715.6	552.0	523.1	503.8	487.8	462.1	430.0	407.6	401.1
47.5°	11941.1	7910.5	625.8	503.8	481.4	465.3	446.1	414.0	375.5	349.8	343.4
50°	12560.5	7961.8	558.4	458.9	446.1	430.0	401.1	362.6	320.9	295.2	288.8
52.5°	12865.3	7730.8	503.8	417.2	407.6	391.5	356.2	314.5	269.6	243.9	237.5
55°	13003.3	7294.3	452.5	381.9	369.0	349.8	311.3	266.4	221.4	199.0	192.5
57.5°	12948.8	6649.3	407.6	346.6	330.5	308.1	266.4	218.2	182.9	160.5	157.2
60°	12544.4	5744.3	362.6	311.3	292.0	266.4	224.6	179.7	147.6	131.6	128.4
62.5°	11671.5	4621.1	317.7	269.6	256.7	231.1	192.5	147.6	121.9	112.3	109.1
65°	9884.1	3266.9	272.8	227.8	221.4	195.8	160.5	121.9	105.9	99.5	96.3
67.5°	7105.0	1986.4	231.1	195.8	189.3	166.9	134.8	105.9	96.3	93.1	93.1
70°	3571.7	940.3	182.9	160.5	160.5	138.0	115.5	96.3	93.1	89.9	89.9
72.5°	1213.0	401.1	138.0	125.2	131.6	118.7	99.5	89.9	89.9	89.9	89.9
75°	414.0	211.8	96.3	89.9	96.3	96.3	86.6	86.6	89.9	89.9	89.9
77.5°	269.6	141.2	67.4	61.0	73.8	73.8	73.8	80.2	86.6	86.6	86.6
80°	221.4	77.0	44.9	41.7	54.6	54.6	61.0	73.8	80.2	80.2	80.2
82.5°	189.3	48.1	25.7	28.9	38.5	41.7	51.3	61.0	70.6	73.8	73.8
85°	128.4	25.7	19.3	22.5	25.7	32.1	41.7	51.3	57.8	64.2	64.2
87.5°	35.3	9.6	12.8	16.0	16.0	22.5	32.1	38.5	44.9	48.1	48.1
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)