

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: P640726

Luminaire Tested: GWS-SA5E-740-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640726  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-740-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

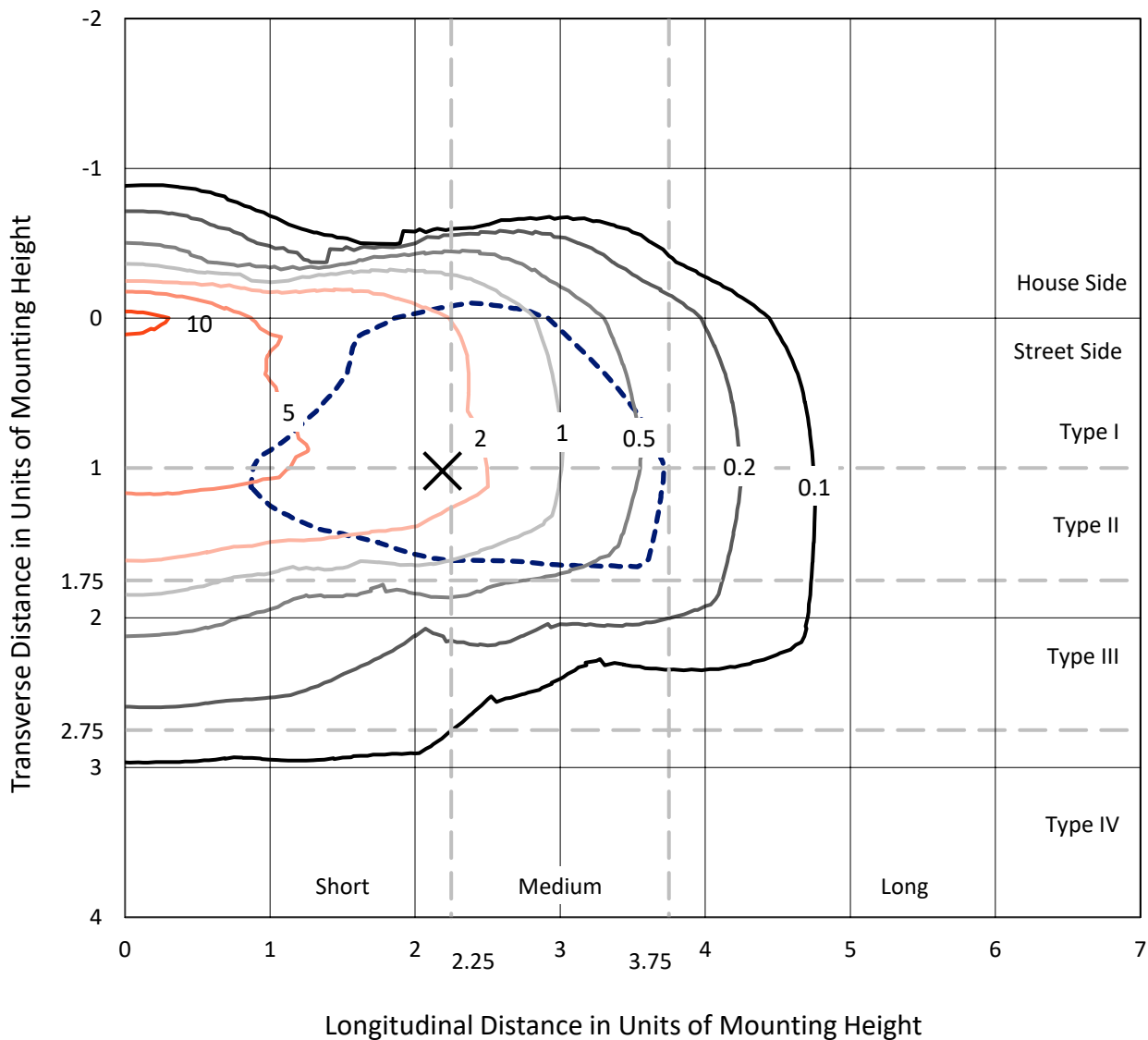
Lumens per Lamp: N/A  
Luminaire Lumens: 29759.1 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

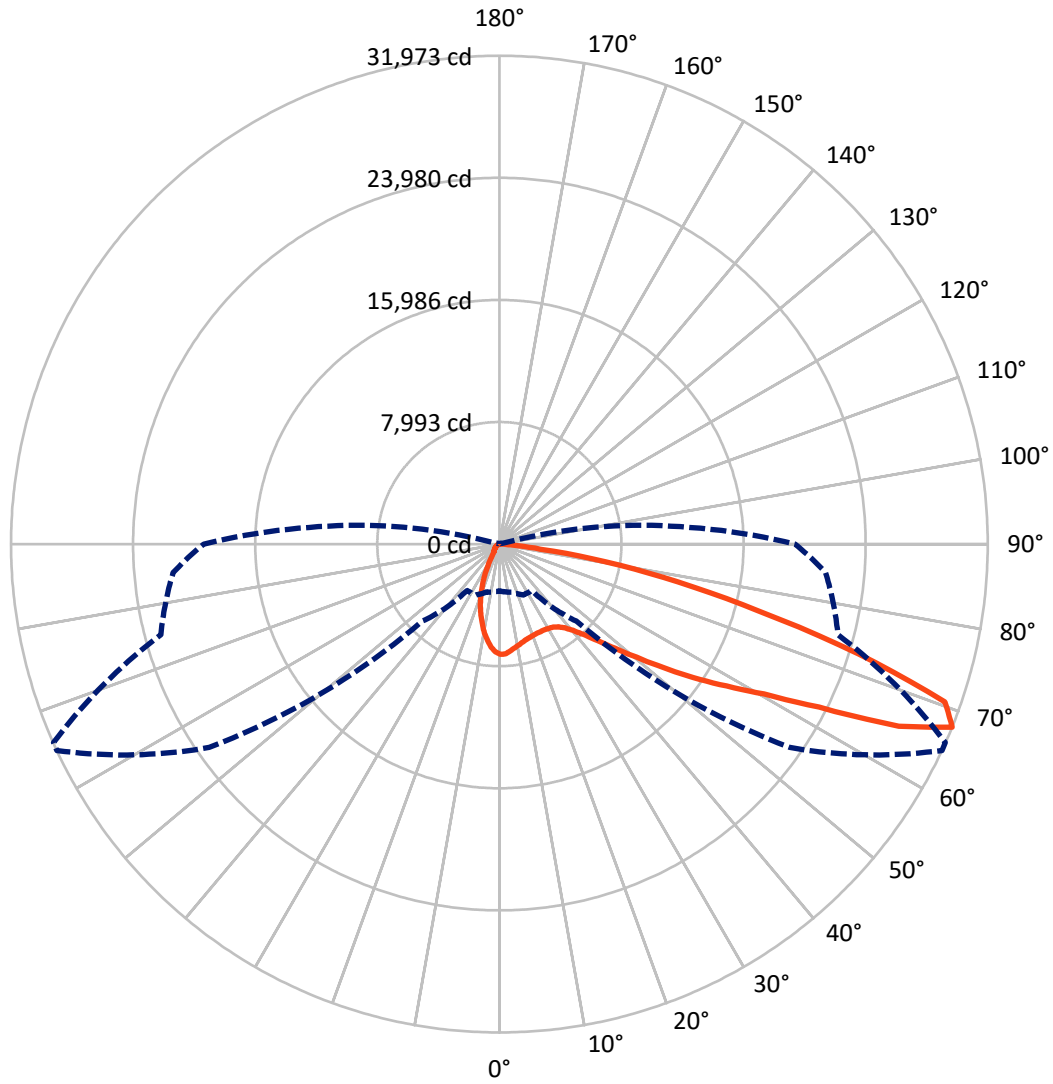
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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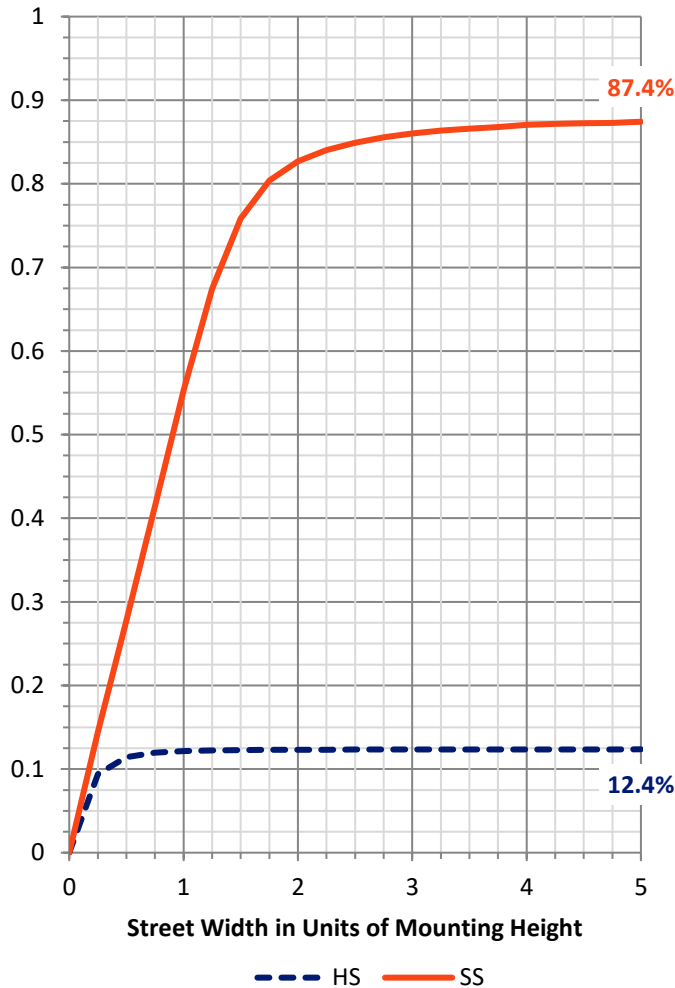
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3716.0	0.0	3716.0
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	26043.1	0.0	26043.1
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	29759.1	0.0	29759.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	599.5	2.0
10°-20°	1347.5	4.5
20°-30°	1925.6	6.5
30°-40°	2801.4	9.4
40°-50°	4387.5	14.7
50°-60°	6844.7	23.0
60°-70°	7518.5	25.3
70°-80°	4001.3	13.4
80°-90°	333.1	1.1
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°	29759.1	100.0
0°-180°	29759.1	100.0

**Coefficient of Utilization**



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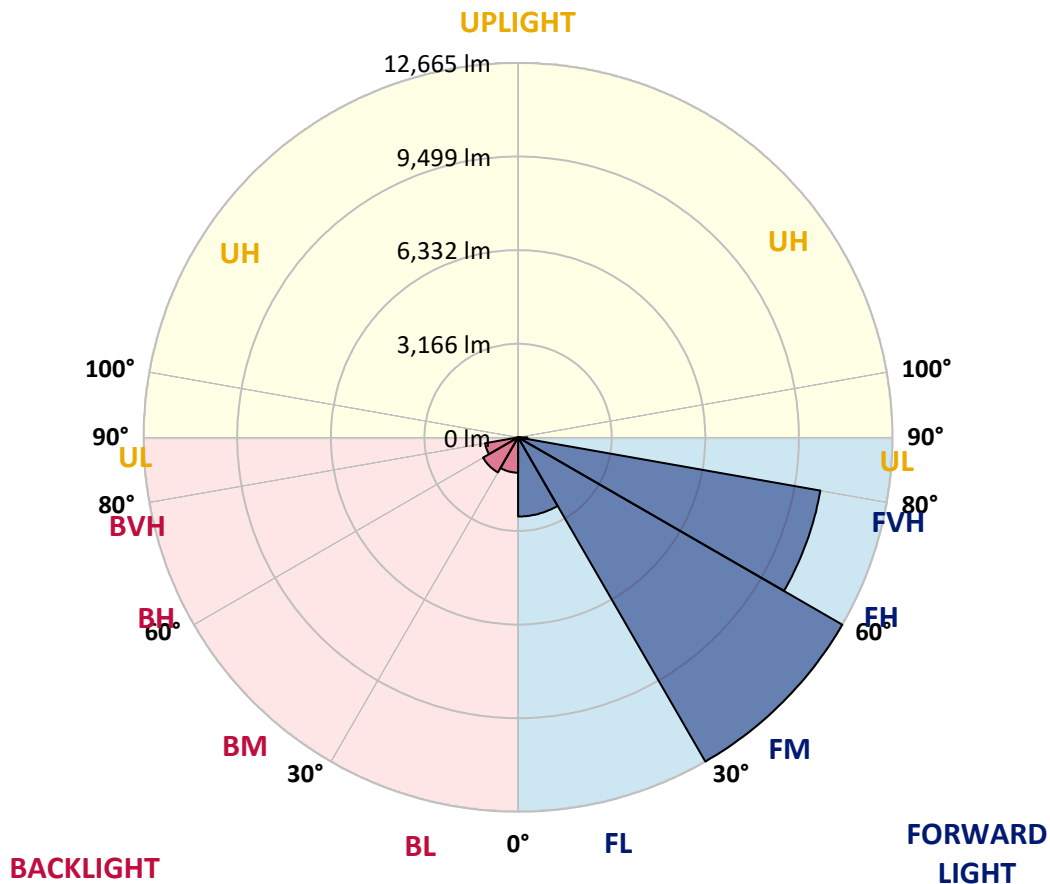
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2678.1	9.0			
FM (30°-60°)	12664.8	42.6			
FH (60°-80°)	10384.8	34.9			G4/12000
FVH (80°-90°)	315.3	1.1			G3/500
BL (0°-30°)	1194.4	4.0	B3/2500		
BM (30°-60°)	1368.8	4.6	B2/2500		
BH (60°-80°)	1135.0	3.8	B3/2500		G3/2500
BVH (80°-90°)	17.8	0.1			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°	7217.5	7217.5	7217.5	7217.5	7217.5	7217.5	7217.5	7217.5	7217.5	7217.5	7217.5
2.5°	6967.2	6988.8	6959.2	7031.8	7045.3	7126.0	7171.8	7204.1	7201.4	7241.7	7241.7
5°	6558.2	6579.7	6563.6	6641.6	6703.5	6830.0	6935.0	7056.1	7061.4	7185.2	7231.0
7.5°	6211.0	6213.7	6213.7	6310.6	6391.4	6547.4	6703.5	6889.2	6910.7	7101.8	7222.9
10°	5925.8	5933.9	5936.6	6046.9	6135.7	6324.1	6523.2	6746.6	6770.8	7029.1	7217.5
12.5°	5729.3	5732.0	5742.8	5858.5	5955.4	6151.8	6353.7	6609.3	6641.6	6945.7	7193.3
15°	5635.2	5629.8	5635.2	5732.0	5828.9	6017.3	6224.5	6499.0	6534.0	6875.8	7196.0
17.5°	5629.8	5621.7	5616.3	5689.0	5750.9	5917.7	6127.6	6426.3	6464.0	6843.5	7225.6
20°	5707.8	5702.4	5675.5	5707.8	5721.3	5858.5	6065.7	6369.8	6407.5	6838.1	7290.2
22.5°	5912.3	5898.9	5858.5	5828.9	5756.3	5837.0	6022.7	6329.5	6372.5	6851.5	7373.6
25°	6216.4	6211.0	6159.9	6087.3	5901.6	5869.3	6025.4	6329.5	6369.8	6867.7	7462.4
27.5°	6673.9	6641.6	6577.0	6450.6	6184.1	5995.8	6079.2	6345.6	6386.0	6889.2	7535.1
30°	7139.5	7136.8	7115.3	6986.1	6590.5	6238.0	6192.2	6388.7	6426.3	6908.0	7602.3
32.5°	7621.2	7629.3	7683.1	7583.5	7150.2	6598.6	6396.7	6477.5	6504.4	6945.7	7661.6
35°	8078.7	8094.8	8237.4	8272.4	7831.1	7144.9	6730.4	6655.1	6657.8	7029.1	7739.6
37.5°	8517.3	8571.1	8799.9	8969.4	8678.8	7806.9	7212.1	6956.5	6935.0	7196.0	7858.0
40°	9015.2	9117.4	9405.4	9693.3	9601.8	8681.5	7868.8	7419.4	7373.6	7502.8	8070.6
42.5°	9566.8	9677.2	10059.3	10463.0	10506.0	9739.1	8689.5	8094.8	8016.8	8019.5	8468.9
45°	10158.9	10306.9	10750.9	11332.2	11593.2	10917.8	9701.4	9007.1	8929.1	8813.3	9109.4
47.5°	10936.6	11065.8	11493.7	12163.8	12664.3	12182.6	11028.1	10180.4	10037.8	9868.2	10105.1
50°	11606.7	11719.7	12088.4	12928.0	13969.5	13813.4	12532.4	11647.1	11509.8	11221.9	11418.3
52.5°	11754.7	11843.5	12182.6	13127.2	14967.9	15872.1	14375.8	13420.5	13323.6	12790.8	12866.1
55°	11090.0	11224.6	11528.7	12578.2	15228.9	17885.0	16768.2	15420.0	15218.1	14367.8	14502.3
57.5°	9410.8	9650.3	9935.5	11299.9	14521.2	18956.1	20110.6	17537.9	17354.9	15885.5	15888.2
60°	6897.3	7091.0	7282.1	8530.8	12841.9	18883.4	23143.4	19916.8	19583.1	17126.1	17080.4
62.5°	5016.2	5115.8	5113.1	5557.1	8818.7	17640.1	24736.6	23501.3	22723.6	18452.8	18191.8
65°	3945.1	3942.5	4058.2	4203.5	4924.7	13616.9	24933.0	28735.5	27895.9	20231.7	19688.1
67.5°	3070.5	3129.7	3245.5	3673.3	3700.3	7126.0	23205.3	31972.9	31956.8	22947.0	21440.0
70°	2368.2	2448.9	2613.1	3237.4	3417.7	3988.2	17363.0	30947.6	31208.6	24160.7	20199.4
72.5°	1520.5	1515.1	1757.3	2615.7	3283.1	3323.5	9601.8	24583.2	24879.2	21884.0	16332.3
75°	850.4	855.8	993.0	1601.2	3059.8	3127.1	4755.2	17529.8	17763.9	17061.5	12548.6
77.5°	333.7	344.5	465.6	842.3	2018.3	2793.4	2825.7	11953.8	11988.8	10573.3	7696.5
80°	134.6	142.6	236.8	522.1	1229.8	1881.1	2018.3	7042.6	6900.0	4093.2	2239.0
82.5°	40.4	43.1	94.2	296.0	643.2	1337.5	1361.7	2701.9	2551.2	880.0	570.5
85°	2.7	2.7	21.5	91.5	228.7	336.4	906.9	880.0	780.4	220.7	253.0
87.5°	0.0	0.0	2.7	2.7	5.4	10.8	96.9	161.5	164.2	40.4	113.0
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°	7217.5	7217.5	7217.5	7217.5	7217.5	7217.5	7217.5	7217.5	7217.5	7217.5	7217.5
2.5°	7241.7	7144.9	7136.8	7061.4	6986.1	6891.9	6781.6	6700.8	6644.3	6544.7	6525.9
5°	7231.0	7101.8	6980.7	6765.4	6525.9	6267.6	6041.5	5831.6	5699.7	5610.9	5573.3
7.5°	7209.4	7045.3	6765.4	6359.1	5958.1	5506.0	5153.4	4830.5	4609.8	4480.7	4424.2
10°	7193.3	6972.6	6517.8	5901.6	5279.9	4655.6	4120.1	3641.1	3374.6	3164.7	3129.7
12.5°	7161.0	6867.7	6200.3	5366.0	4564.1	3735.2	3051.7	2465.0	2058.7	1875.7	1811.1
15°	7128.7	6757.3	5882.7	4800.9	3783.7	2761.1	1932.2	1367.1	1087.2	1001.1	995.7
17.5°	7123.3	6657.8	5538.3	4265.4	2965.6	1808.4	1100.7	885.4	826.2	804.6	804.6
20°	7139.5	6574.3	5199.2	3649.1	2161.0	1100.7	820.8	767.0	732.0	713.1	713.1
22.5°	7155.6	6488.2	4873.6	3027.5	1434.4	804.6	723.9	678.2	637.8	616.3	605.5
25°	7166.4	6394.0	4513.0	2403.1	936.5	699.7	635.1	575.9	527.5	500.5	500.5
27.5°	7163.7	6281.0	4149.7	1792.3	726.6	621.6	543.6	481.7	433.3	403.7	406.4
30°	7142.2	6157.2	3772.9	1251.4	635.1	543.6	465.6	401.0	352.5	328.3	325.6
32.5°	7126.0	6025.4	3337.0	880.0	570.5	476.3	395.6	333.7	293.3	274.5	271.8
35°	7107.2	5896.2	2922.5	670.1	514.0	411.7	333.7	282.6	250.3	234.1	234.1
37.5°	7112.6	5761.6	2473.1	575.9	457.5	357.9	285.3	242.2	215.3	199.1	196.5
40°	7196.0	5680.9	2031.8	522.1	406.4	309.5	247.6	209.9	183.0	166.8	164.2
42.5°	7403.2	5683.6	1609.3	481.7	360.6	263.7	215.3	180.3	156.1	137.2	134.6
45°	7817.6	5796.6	1235.2	438.6	312.2	228.7	185.7	153.4	129.2	113.0	110.3
47.5°	8495.8	6133.0	936.5	401.0	271.8	199.1	158.8	129.2	107.6	94.2	91.5
50°	9574.9	6741.2	737.4	355.2	228.7	172.2	134.6	107.6	88.8	75.4	72.7
52.5°	10872.0	7653.5	632.4	314.9	196.5	150.7	115.7	88.8	72.7	61.9	59.2
55°	12362.9	8743.4	584.0	274.5	166.8	129.2	94.2	72.7	59.2	51.1	45.7
57.5°	13730.0	9725.6	581.3	234.1	142.6	110.3	78.0	61.9	51.1	40.4	37.7
60°	15062.1	10546.4	546.3	193.8	123.8	91.5	67.3	51.1	43.1	35.0	32.3
62.5°	16270.4	11213.8	457.5	156.1	105.0	75.4	56.5	45.7	37.7	29.6	29.6
65°	17788.1	12064.2	349.8	126.5	86.1	61.9	48.4	40.4	35.0	26.9	26.9
67.5°	19357.1	12513.6	250.3	105.0	70.0	53.8	43.1	37.7	29.6	24.2	24.2
70°	17532.5	10573.3	180.3	86.1	59.2	45.7	37.7	35.0	29.6	24.2	21.5
72.5°	13692.3	7623.9	134.6	67.3	51.1	43.1	35.0	32.3	26.9	21.5	21.5
75°	10153.5	4445.7	102.3	53.8	40.4	35.0	35.0	32.3	26.9	21.5	18.8
77.5°	5519.4	1550.1	78.0	43.1	32.3	26.9	29.6	29.6	24.2	18.8	16.1
80°	1461.3	425.2	53.8	32.3	26.9	21.5	21.5	26.9	21.5	16.1	16.1
82.5°	425.2	123.8	37.7	26.9	21.5	18.8	18.8	18.8	16.1	13.5	10.8
85°	207.2	45.7	26.9	21.5	18.8	16.1	13.5	13.5	10.8	8.1	8.1
87.5°	91.5	18.8	21.5	18.8	18.8	13.5	10.8	8.1	8.1	5.4	2.7
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)