

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: P642600

Luminaire Tested: GWS-SA6D-730-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-730-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

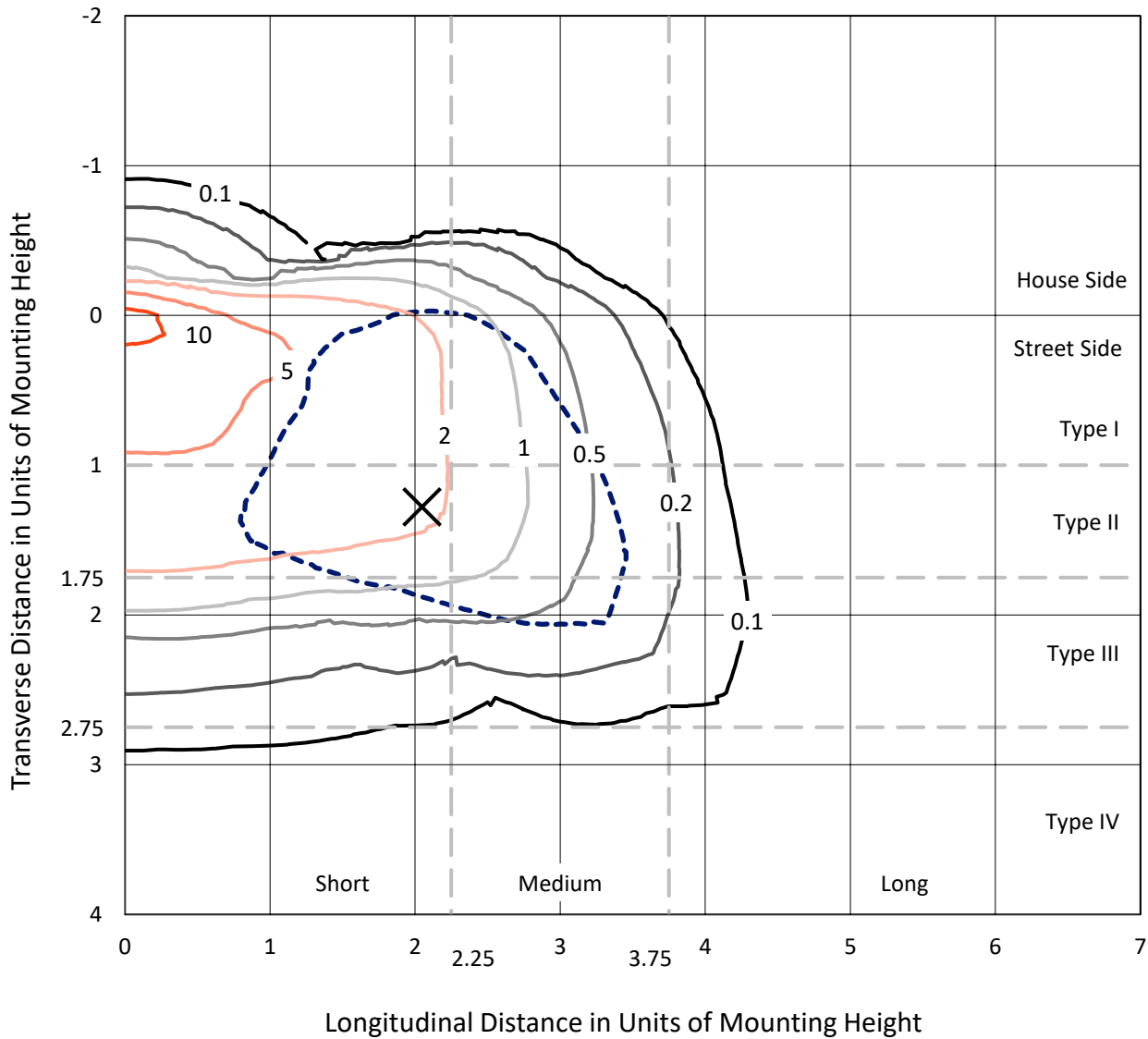
Lumens per Lamp: N/A  
Luminaire Lumens: 26419.5 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): 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

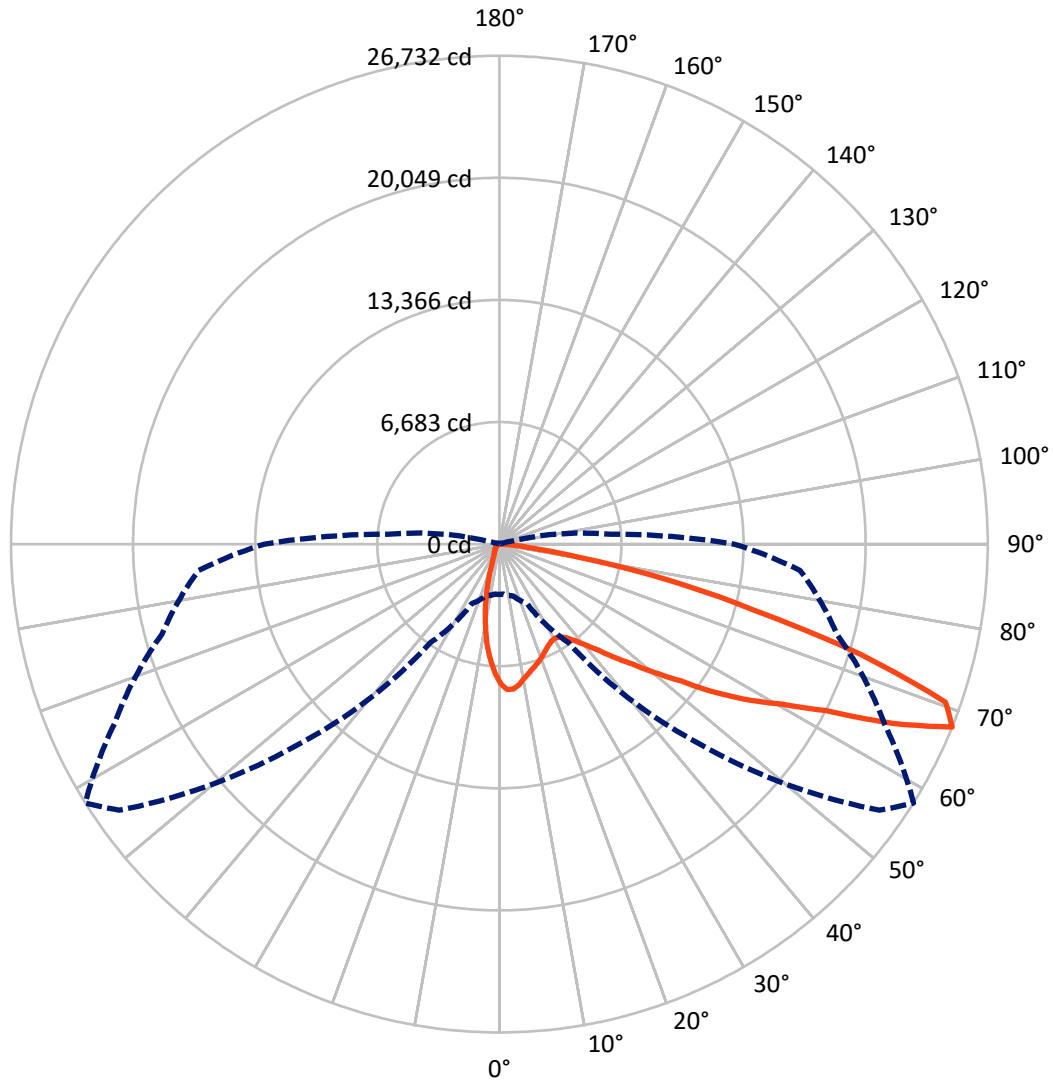
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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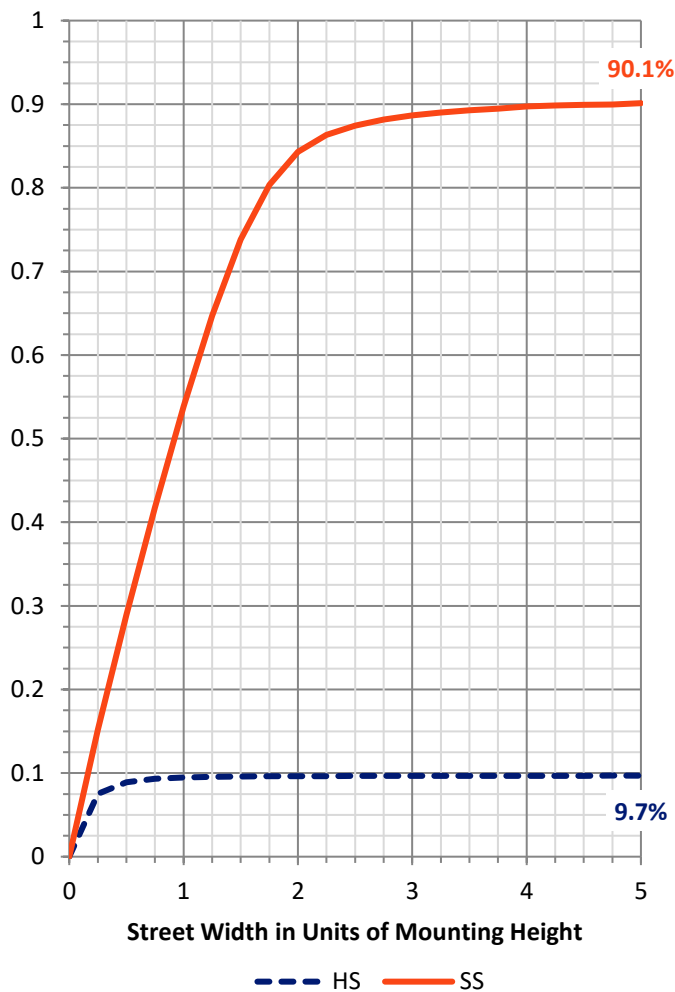
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2581.0	0.0	2581.0
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	23838.5	0.0	23838.5
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	26419.5	0.0	26419.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	619.3	2.3
10°-20°	1289.1	4.9
20°-30°	1738.4	6.6
30°-40°	2442.8	9.2
40°-50°	3772.6	14.3
50°-60°	6032.9	22.8
60°-70°	7143.5	27.0
70°-80°	3160.1	12.0
80°-90°	220.9	0.8
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°	26419.5	100.0
0°-180°	26419.5	100.0

**Coefficient of Utilization**



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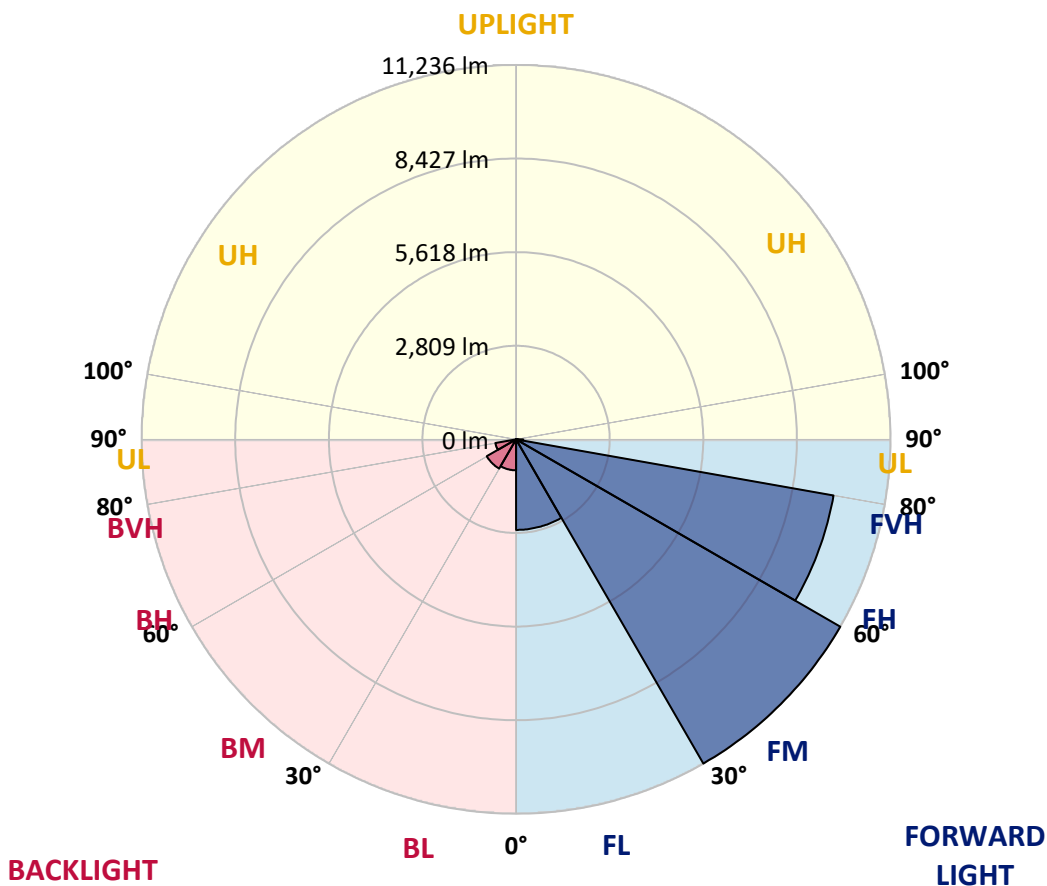
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2717.9	10.3			
FM (30°-60°)	11235.7	42.5			
FH (60°-80°)	9673.4	36.6			G4/12000
FVH (80°-90°)	211.5	0.8			G2/225
BL (0°-30°)	928.8	3.5	B2/1000		
BM (30°-60°)	1012.7	3.8	B2/2500		
BH (60°-80°)	630.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	9.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7620.6	7620.6	7620.6	7620.6	7620.6	7620.6	7620.6	7620.6	7620.6	7620.6	7620.6
2.5°	8015.8	8029.8	8048.5	8071.9	8067.2	8046.2	8020.5	7962.0	7924.6	7807.7	7665.1
5°	7758.6	7756.2	7803.0	7847.4	7926.9	7969.0	8027.5	7973.7	7955.0	7814.7	7583.2
7.5°	7255.8	7281.6	7335.3	7405.5	7520.1	7644.0	7784.3	7767.9	7824.1	7730.5	7442.9
10°	6762.5	6748.4	6832.6	6937.8	7113.2	7272.2	7475.6	7473.3	7620.6	7611.3	7283.9
12.5°	6329.9	6327.5	6393.0	6512.3	6718.0	6940.2	7216.1	7223.1	7405.5	7480.3	7148.3
15°	5965.1	5969.8	6032.9	6156.8	6369.6	6640.9	6961.2	7019.7	7225.4	7377.4	7015.0
17.5°	5705.5	5707.9	5745.3	5852.8	6061.0	6350.9	6736.7	6816.2	7080.5	7300.3	6907.4
20°	5586.3	5576.9	5583.9	5637.7	5799.1	6063.3	6507.6	6610.5	6947.2	7246.5	6809.2
22.5°	5602.6	5588.6	5555.9	5548.9	5621.3	5822.4	6264.4	6390.7	6802.2	7213.8	6720.4
25°	5747.6	5717.2	5670.5	5600.3	5572.2	5672.8	6051.6	6182.5	6666.6	7216.1	6652.6
27.5°	5969.8	5937.0	5878.6	5785.0	5675.1	5633.0	5906.6	6030.6	6570.7	7269.9	6619.8
30°	6252.7	6227.0	6170.9	6058.6	5911.3	5738.3	5876.2	5979.1	6523.9	7379.8	6633.8
32.5°	6587.1	6568.4	6521.6	6418.7	6250.4	5986.1	5979.1	6058.6	6561.4	7538.8	6687.6
35°	6909.8	6916.8	6919.1	6863.0	6683.0	6362.6	6262.1	6290.1	6715.7	7777.3	6809.2
37.5°	7258.2	7241.8	7326.0	7365.7	7192.7	6851.3	6699.3	6701.7	7010.3	8130.4	7038.4
40°	7522.4	7527.1	7709.5	7873.2	7800.7	7471.0	7253.5	7251.2	7464.0	8614.4	7407.8
42.5°	7770.3	7800.7	8069.6	8350.2	8450.7	8158.4	8001.8	7943.3	8100.0	9269.1	7962.0
45°	8034.5	8078.9	8455.4	8855.3	9119.5	8946.5	8822.5	8845.9	8864.6	10031.4	8707.9
47.5°	8343.2	8371.2	8836.6	9400.1	9893.5	9849.1	9856.1	9828.0	9818.7	10992.5	9694.7
50°	8717.3	8782.8	9318.3	9991.7	10665.1	10959.8	11058.0	11069.7	10917.7	12040.1	10716.6
52.5°	9512.3	9591.8	10050.2	10639.4	11506.9	12126.6	12526.4	12446.9	12213.1	13054.9	11836.6
55°	10450.0	10510.8	10952.7	11563.1	12535.8	13405.7	14355.0	14322.3	13749.4	14123.5	12757.9
57.5°	10538.9	10606.7	11291.8	12227.1	13857.0	14986.4	15984.8	16090.1	15250.6	14881.1	13581.0
60°	9540.4	9678.4	10613.7	11871.7	14362.0	17111.9	17771.3	17792.4	16352.0	15650.5	14586.5
62.5°	7646.3	7711.8	8654.2	10295.7	13583.4	18351.2	20500.2	20055.9	17766.6	16840.7	16178.9
65°	4007.9	4274.5	5095.2	6912.1	11015.9	17918.6	23783.2	23661.6	20310.8	18545.3	17418.2
67.5°	2749.9	2747.5	2941.6	3603.4	6568.4	15428.3	25394.3	26731.8	23252.4	19129.9	16520.3
70°	2092.8	2099.8	2272.9	2703.1	3402.3	10270.0	23626.5	25913.4	23799.5	17369.1	13361.2
72.5°	1389.0	1403.0	1690.6	2184.0	2717.1	5034.4	18360.6	20734.0	20025.5	13950.5	9404.8
75°	830.1	841.8	1047.6	1587.7	2415.5	2817.7	11665.9	14334.0	13784.5	9615.2	5041.4
77.5°	341.4	350.7	537.8	989.1	1767.8	2188.7	6451.5	9379.0	8256.7	3823.2	1377.3
80°	142.6	147.3	259.6	692.1	1274.4	1372.6	2988.4	4407.8	3383.6	823.1	420.9
82.5°	51.4	53.8	95.9	381.1	792.7	1033.5	1508.2	1742.1	954.0	268.9	226.8
85°	2.3	2.3	23.4	128.6	301.6	292.3	862.8	834.8	315.7	112.2	135.6
87.5°	0.0	0.0	2.3	2.3	4.7	11.7	81.8	145.0	67.8	28.1	58.5
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°	7620.6	7620.6	7620.6	7620.6	7620.6	7620.6	7620.6	7620.6	7620.6	7620.6	7620.6
2.5°	7571.5	7447.6	7312.0	7185.7	6984.6	6865.3	6718.0	6652.6	6559.0	6535.6	6549.7
5°	7417.2	7204.4	6879.4	6584.7	6203.6	5897.3	5588.6	5457.7	5289.3	5177.1	5130.3
7.5°	7199.7	6921.5	6414.0	5878.6	5354.8	4795.9	4370.3	4089.7	3834.9	3694.6	3666.5
10°	6979.9	6617.5	5890.3	5123.3	4311.9	3643.1	3067.9	2642.3	2296.2	2139.6	2018.0
12.5°	6753.1	6301.8	5357.1	4356.3	3414.0	2502.0	1791.2	1377.3	1129.4	1031.2	1047.6
15°	6545.0	5997.8	4828.7	3589.3	2403.8	1510.6	989.1	834.8	776.3	757.6	755.3
17.5°	6346.2	5710.2	4302.5	2843.4	1585.4	926.0	757.6	720.2	703.8	694.5	694.5
20°	6166.2	5434.3	3788.1	2141.9	1024.2	734.2	685.1	666.4	652.4	645.4	645.4
22.5°	5997.8	5167.7	3285.4	1515.2	755.3	659.4	629.0	610.3	593.9	584.6	584.6
25°	5845.8	4926.9	2806.0	1042.9	650.1	603.3	570.6	549.5	521.4	505.1	505.1
27.5°	5735.9	4711.7	2345.3	760.0	586.9	542.5	505.1	477.0	446.6	427.9	423.2
30°	5670.5	4529.3	1880.0	624.3	528.5	484.0	441.9	406.9	371.8	353.1	350.7
32.5°	5633.0	4361.0	1454.4	544.8	479.4	427.9	381.1	343.7	308.7	287.6	285.3
35°	5647.1	4230.0	1089.7	491.0	432.6	378.8	327.4	290.0	259.6	240.8	236.2
37.5°	5768.7	4171.6	818.4	449.0	392.8	336.7	282.9	247.9	219.8	205.8	203.4
40°	6004.8	4183.3	643.0	416.2	360.1	294.6	243.2	210.4	189.4	177.7	175.4
42.5°	6372.0	4281.5	530.8	388.2	325.0	257.2	210.4	184.7	163.7	152.0	149.7
45°	6919.1	4484.9	463.0	355.4	287.6	222.1	182.4	159.0	140.3	126.3	123.9
47.5°	7711.8	4838.0	418.6	325.0	254.9	191.7	156.7	133.3	116.9	105.2	102.9
50°	8556.0	5261.2	381.1	294.6	226.8	166.0	133.3	109.9	95.9	84.2	81.8
52.5°	9456.2	5717.2	353.1	266.6	201.1	142.6	112.2	91.2	77.2	65.5	63.1
55°	10321.4	6175.5	320.4	247.9	170.7	121.6	93.5	74.8	60.8	51.4	51.4
57.5°	11163.2	6596.4	285.3	217.5	140.3	102.9	77.2	60.8	49.1	42.1	39.8
60°	12168.7	7178.7	245.5	184.7	116.9	86.5	63.1	49.1	39.8	32.7	32.7
62.5°	13662.9	7784.3	210.4	154.3	98.2	72.5	51.4	39.8	32.7	28.1	25.7
65°	14151.6	7456.9	177.7	126.3	79.5	58.5	42.1	35.1	28.1	25.7	23.4
67.5°	12846.8	6112.4	147.3	102.9	65.5	49.1	37.4	30.4	25.7	23.4	21.0
70°	10024.4	4337.6	114.6	77.2	53.8	39.8	32.7	28.1	23.4	21.0	21.0
72.5°	6818.6	2565.2	91.2	58.5	44.4	35.1	28.1	25.7	23.4	21.0	18.7
75°	3357.8	911.9	70.1	44.4	35.1	30.4	25.7	23.4	21.0	18.7	18.7
77.5°	904.9	252.5	53.8	35.1	28.1	23.4	23.4	23.4	21.0	16.4	16.4
80°	306.3	105.2	39.8	25.7	23.4	18.7	16.4	21.0	18.7	16.4	14.0
82.5°	168.4	51.4	28.1	21.0	16.4	14.0	14.0	14.0	14.0	11.7	11.7
85°	107.6	28.1	18.7	16.4	16.4	11.7	9.4	9.4	7.0	7.0	7.0
87.5°	49.1	16.4	16.4	14.0	14.0	11.7	7.0	4.7	2.3	2.3	2.3
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)