

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: P643480

Luminaire Tested: GWS-SA6F-722-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643480  
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-SAGF-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

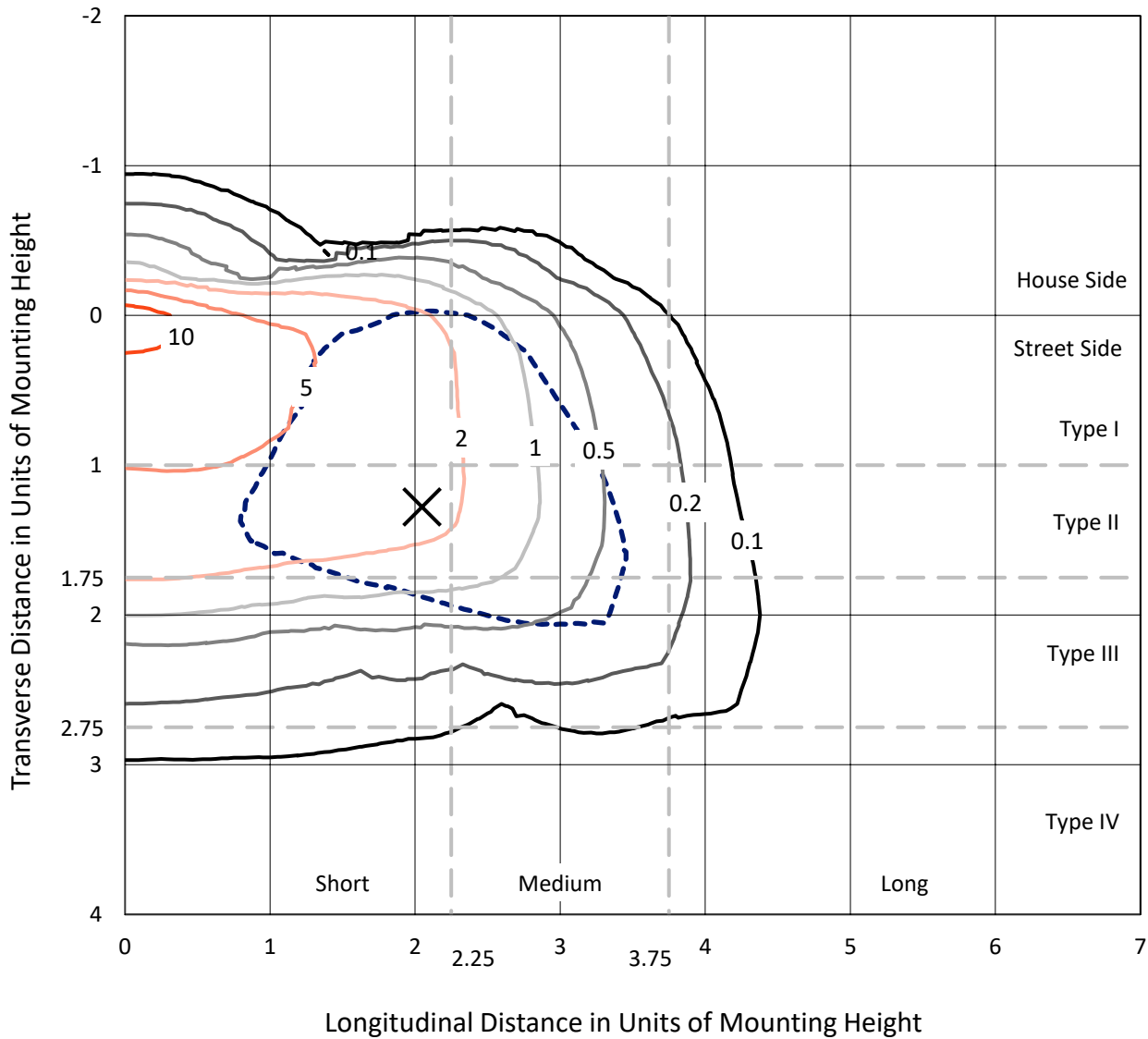
Lumens per Lamp: N/A  
Luminaire Lumens: 29692 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

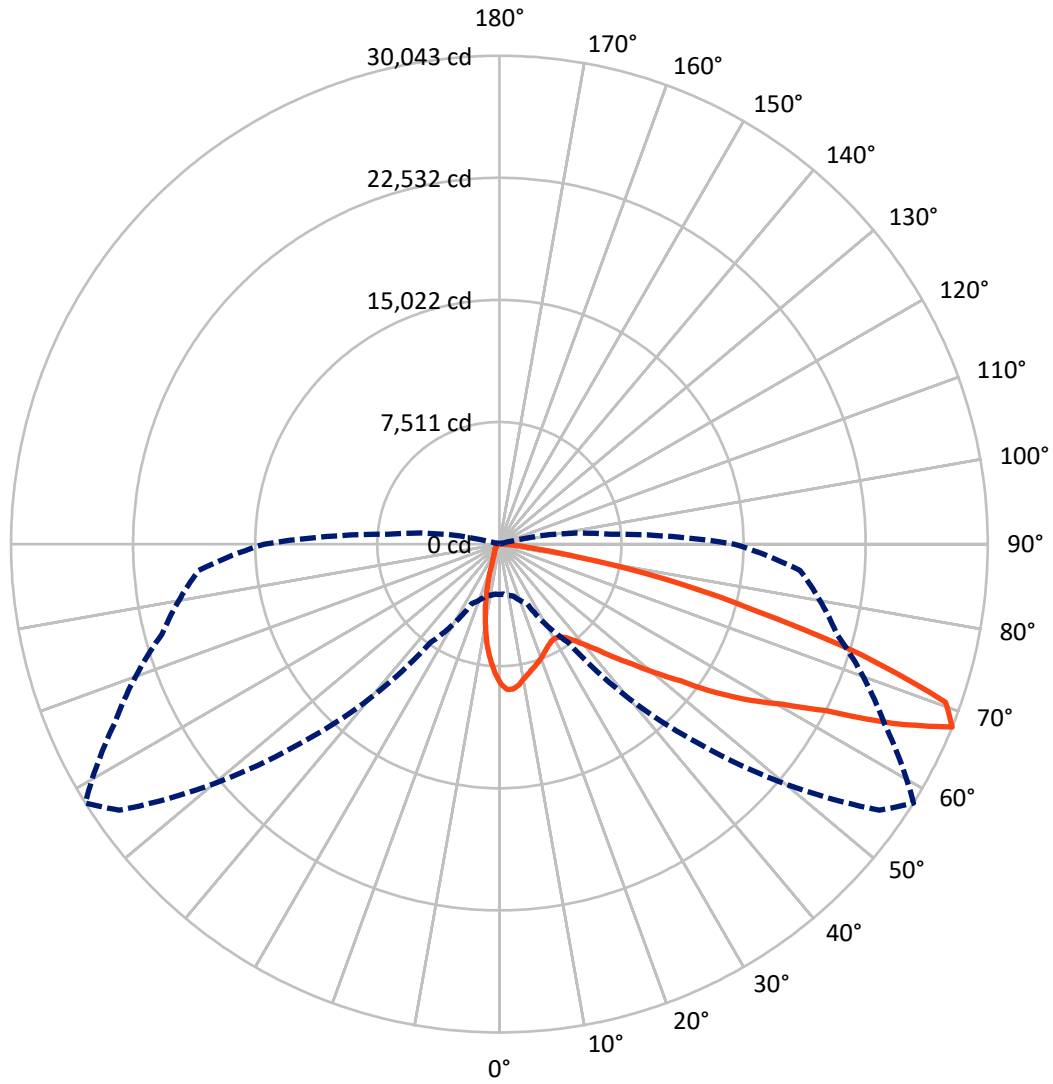
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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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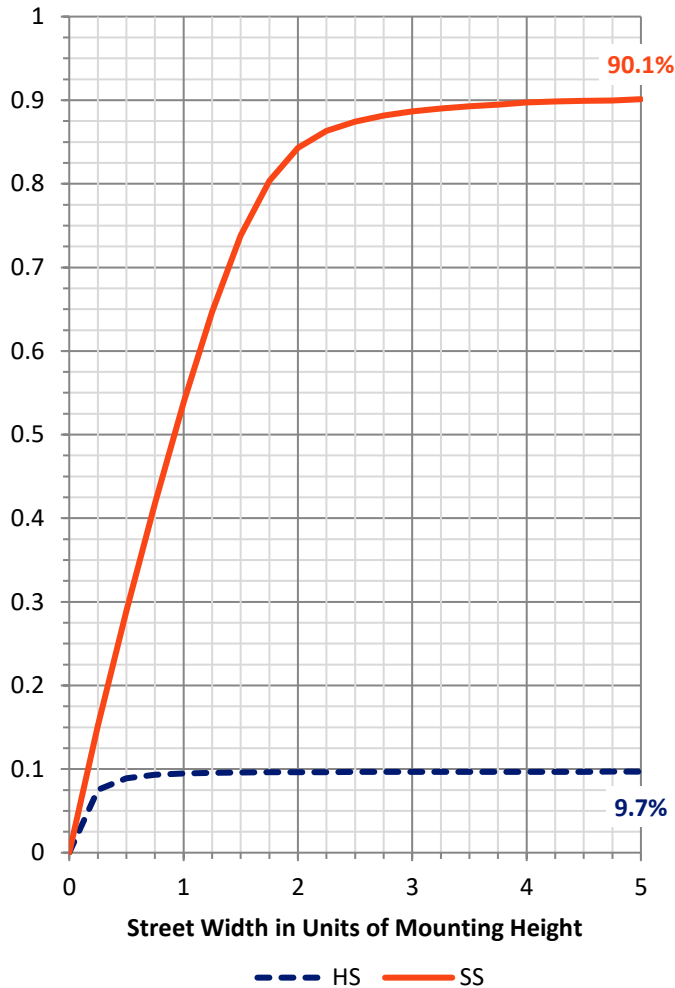
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2900.7	0.0	2900.7
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	26791.3	0.0	26791.3
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	29692.0	0.0	29692.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	696.0	2.3
10°-20°	1448.7	4.9
20°-30°	1953.7	6.6
30°-40°	2745.4	9.2
40°-50°	4239.9	14.3
50°-60°	6780.2	22.8
60°-70°	8028.3	27.0
70°-80°	3551.5	12.0
80°-90°	248.3	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°	29692.0	100.0
0°-180°	29692.0	100.0

**Coefficient of Utilization**



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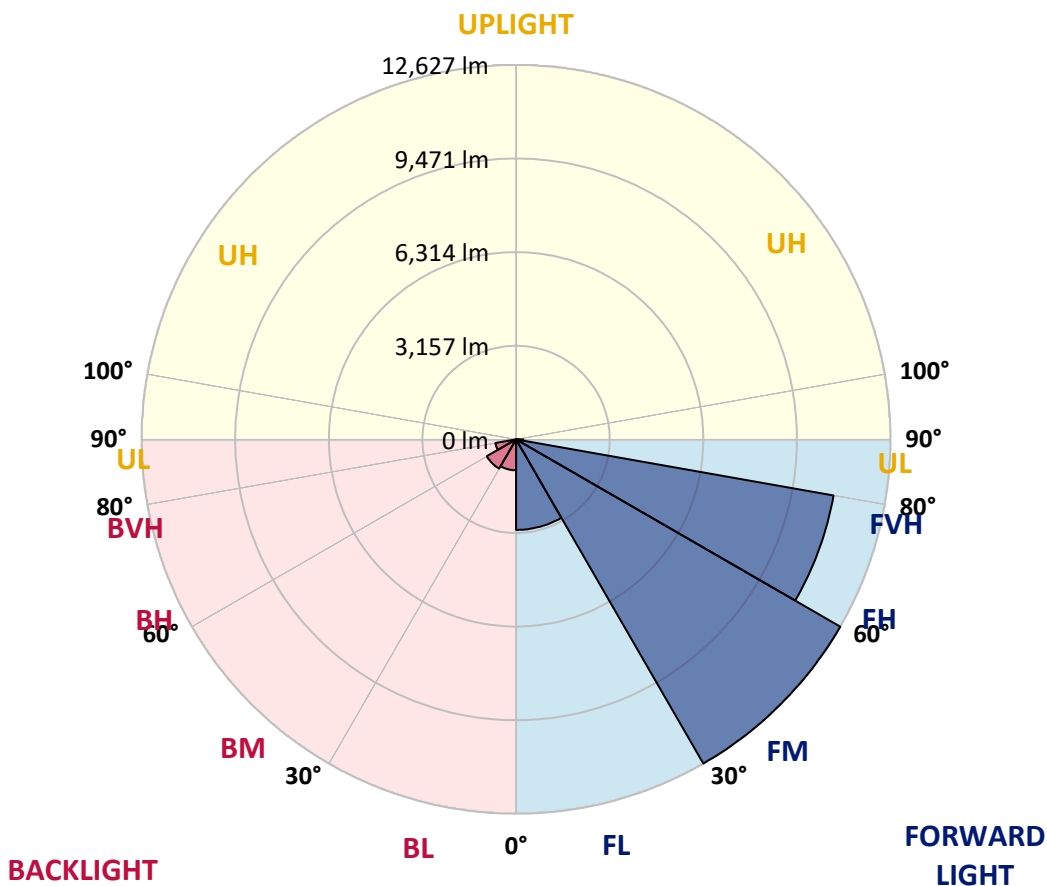
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3054.6	10.3			
FM (30°-60°)	12627.4	42.5			
FH (60°-80°)	10871.6	36.6			G4/12000
FVH (80°-90°)	237.7	0.8			G3/500
BL (0°-30°)	1043.8	3.5	B3/2500		
BM (30°-60°)	1138.1	3.8	B2/2500		
BH (60°-80°)	708.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	10.6	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8564.6	8564.6	8564.6	8564.6	8564.6	8564.6	8564.6	8564.6	8564.6	8564.6	8564.6
2.5°	9008.7	9024.5	9045.5	9071.8	9066.5	9042.9	9013.9	8948.3	8906.2	8774.8	8614.5
5°	8719.6	8717.0	8769.5	8819.5	8908.8	8956.1	9021.8	8961.4	8940.4	8782.7	8522.5
7.5°	8154.6	8183.5	8244.0	8322.8	8451.6	8590.8	8748.5	8730.1	8793.2	8688.1	8364.8
10°	7600.1	7584.3	7678.9	7797.2	7994.3	8173.0	8401.6	8399.0	8564.6	8554.1	8186.1
12.5°	7113.9	7111.3	7184.9	7318.9	7550.2	7799.8	8109.9	8117.8	8322.8	8406.9	8033.7
15°	6704.0	6709.2	6780.2	6919.5	7158.6	7463.4	7823.5	7889.2	8120.4	8291.3	7883.9
17.5°	6412.3	6414.9	6456.9	6577.8	6811.7	7137.6	7571.2	7660.5	7957.5	8204.5	7763.0
20°	6278.2	6267.7	6275.6	6336.0	6517.4	6814.3	7313.7	7429.3	7807.7	8144.1	7652.7
22.5°	6296.6	6280.9	6244.1	6236.2	6317.6	6543.7	7040.3	7182.3	7644.8	8107.3	7552.8
25°	6459.6	6425.4	6372.8	6294.0	6262.5	6375.5	6801.2	6948.4	7492.4	8109.9	7476.6
27.5°	6709.2	6672.4	6606.7	6501.6	6378.1	6330.8	6638.3	6777.5	7384.6	8170.4	7439.8
30°	7027.2	6998.3	6935.2	6809.1	6643.5	6449.0	6604.1	6719.7	7332.0	8293.9	7455.6
32.5°	7403.0	7382.0	7329.4	7213.8	7024.6	6727.6	6719.7	6809.1	7374.1	8472.6	7516.0
35°	7765.7	7773.5	7776.2	7713.1	7510.7	7150.7	7037.7	7069.2	7547.5	8740.6	7652.7
37.5°	8157.2	8138.8	8233.4	8278.1	8083.6	7700.0	7529.1	7531.8	7878.7	9137.5	7910.2
40°	8454.2	8459.4	8664.4	8848.4	8766.9	8396.4	8152.0	8149.3	8388.5	9681.5	8325.4
42.5°	8732.8	8766.9	9069.1	9384.5	9497.5	9169.0	8992.9	8927.2	9103.3	10417.3	8948.3
45°	9029.7	9079.6	9502.8	9952.1	10249.1	10054.6	9915.3	9941.6	9962.6	11274.0	9786.6
47.5°	9376.6	9408.1	9931.1	10564.5	11119.0	11069.0	11076.9	11045.4	11034.9	12354.1	10895.6
50°	9797.1	9870.7	10472.5	11229.3	11986.2	12317.3	12427.7	12440.8	12270.0	13531.4	12044.0
52.5°	10690.6	10779.9	11295.0	11957.3	12932.3	13628.7	14078.1	13988.7	13725.9	14672.0	13302.8
55°	11744.4	11812.7	12309.4	12995.3	14088.6	15066.2	16133.1	16096.3	15452.5	15873.0	14338.2
57.5°	11844.3	11920.5	12690.5	13741.7	15573.4	16842.7	17964.8	18083.1	17139.6	16724.4	15263.3
60°	10722.1	10877.2	11928.4	13342.2	16141.0	19231.5	19972.6	19996.3	18377.4	17589.0	16393.3
62.5°	8593.5	8667.1	9726.1	11571.0	15265.9	20624.3	23039.4	22540.1	19967.3	18926.7	18183.0
65°	4504.3	4803.9	5726.4	7768.3	12380.4	20138.2	26729.1	26592.5	22826.6	20842.5	19575.8
67.5°	3090.5	3087.9	3306.0	4049.7	7382.0	17339.4	28539.8	30043.0	26132.6	21499.5	18566.6
70°	2352.0	2359.9	2554.4	3037.9	3823.7	11542.1	26553.0	29123.2	26747.5	19520.6	15016.2
72.5°	1561.0	1576.8	1900.0	2454.5	3053.7	5658.0	20634.8	23302.2	22506.0	15678.5	10569.7
75°	932.9	946.1	1177.3	1784.4	2714.7	3166.7	13111.0	16109.5	15491.9	10806.2	5665.9
77.5°	383.7	394.2	604.4	1111.6	1986.7	2459.8	7250.6	10540.8	9279.4	4296.7	1547.9
80°	160.3	165.6	291.7	777.9	1432.2	1542.6	3358.6	4953.7	3802.7	925.0	473.0
82.5°	57.8	60.4	107.7	428.4	890.9	1161.6	1695.0	1957.8	1072.2	302.2	254.9
85°	2.6	2.6	26.3	144.5	339.0	328.5	969.7	938.2	354.8	126.1	152.4
87.5°	0.0	0.0	2.6	2.6	5.3	13.1	92.0	162.9	76.2	31.5	65.7
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°	8564.6	8564.6	8564.6	8564.6	8564.6	8564.6	8564.6	8564.6	8564.6	8564.6	8564.6
2.5°	8509.4	8370.1	8217.7	8075.8	7849.8	7715.7	7550.2	7476.6	7371.5	7345.2	7361.0
5°	8335.9	8096.8	7731.5	7400.4	6972.0	6627.7	6280.9	6133.7	5944.5	5818.3	5765.8
7.5°	8091.5	7778.8	7208.5	6606.7	6018.1	5390.0	4911.7	4596.3	4309.9	4152.2	4120.7
10°	7844.5	7437.2	6619.9	5757.9	4846.0	4094.4	3447.9	2969.6	2580.7	2404.6	2267.9
12.5°	7589.6	7082.4	6020.7	4895.9	3836.8	2811.9	2013.0	1547.9	1269.3	1158.9	1177.3
15°	7355.7	6740.8	5426.8	4033.9	2701.6	1697.7	1111.6	938.2	872.5	851.5	848.8
17.5°	7132.3	6417.5	4835.5	3195.6	1781.8	1040.7	851.5	809.4	791.0	780.5	780.5
20°	6930.0	6107.4	4257.3	2407.2	1151.1	825.2	770.0	749.0	733.2	725.3	725.3
22.5°	6740.8	5807.8	3692.3	1702.9	848.8	741.1	706.9	685.9	667.5	657.0	657.0
25°	6569.9	5537.1	3153.6	1172.1	730.6	678.0	641.2	617.6	586.0	567.6	567.6
27.5°	6446.4	5295.4	2635.9	854.1	659.6	609.7	567.6	536.1	501.9	480.9	475.7
30°	6372.8	5090.4	2112.9	701.7	593.9	544.0	496.7	457.3	417.8	396.8	394.2
32.5°	6330.8	4901.2	1634.6	612.3	538.7	480.9	428.4	386.3	346.9	323.2	320.6
35°	6346.6	4754.0	1224.6	551.9	486.2	425.7	367.9	325.9	291.7	270.7	265.4
37.5°	6483.2	4688.3	919.8	504.6	441.5	378.4	318.0	278.6	247.0	231.3	228.6
40°	6748.6	4701.4	722.7	467.8	404.7	331.1	273.3	236.5	212.9	199.7	197.1
42.5°	7161.2	4811.8	596.6	436.2	365.3	289.1	236.5	207.6	184.0	170.8	168.2
45°	7776.2	5040.5	520.3	399.5	323.2	249.7	205.0	178.7	157.7	141.9	139.3
47.5°	8667.1	5437.3	470.4	365.3	286.4	215.5	176.1	149.8	131.4	118.3	115.6
50°	9615.8	5912.9	428.4	331.1	254.9	186.6	149.8	123.5	107.7	94.6	92.0
52.5°	10627.5	6425.4	396.8	299.6	226.0	160.3	126.1	102.5	86.7	73.6	71.0
55°	11599.9	6940.5	360.0	278.6	191.8	136.7	105.1	84.1	68.3	57.8	57.8
57.5°	12545.9	7413.5	320.6	244.4	157.7	115.6	86.7	68.3	55.2	47.3	44.7
60°	13676.0	8067.9	275.9	207.6	131.4	97.2	71.0	55.2	44.7	36.8	36.8
62.5°	15355.3	8748.5	236.5	173.4	110.4	81.5	57.8	44.7	36.8	31.5	28.9
65°	15904.5	8380.6	199.7	141.9	89.4	65.7	47.3	39.4	31.5	28.9	26.3
67.5°	14438.1	6869.5	165.6	115.6	73.6	55.2	42.0	34.2	28.9	26.3	23.7
70°	11266.1	4874.9	128.8	86.7	60.4	44.7	36.8	31.5	26.3	23.7	23.7
72.5°	7663.2	2882.9	102.5	65.7	49.9	39.4	31.5	28.9	26.3	23.7	21.0
75°	3773.8	1024.9	78.8	49.9	39.4	34.2	28.9	26.3	23.7	21.0	21.0
77.5°	1017.0	283.8	60.4	39.4	31.5	26.3	26.3	26.3	23.7	18.4	18.4
80°	344.3	118.3	44.7	28.9	26.3	21.0	18.4	23.7	21.0	18.4	15.8
82.5°	189.2	57.8	31.5	23.7	18.4	15.8	15.8	15.8	15.8	13.1	13.1
85°	120.9	31.5	21.0	18.4	18.4	13.1	10.5	10.5	7.9	7.9	7.9
87.5°	55.2	18.4	18.4	15.8	15.8	13.1	7.9	5.3	2.6	2.6	2.6
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)