

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: P641250

Luminaire Tested: GWS-SA5F-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-740-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

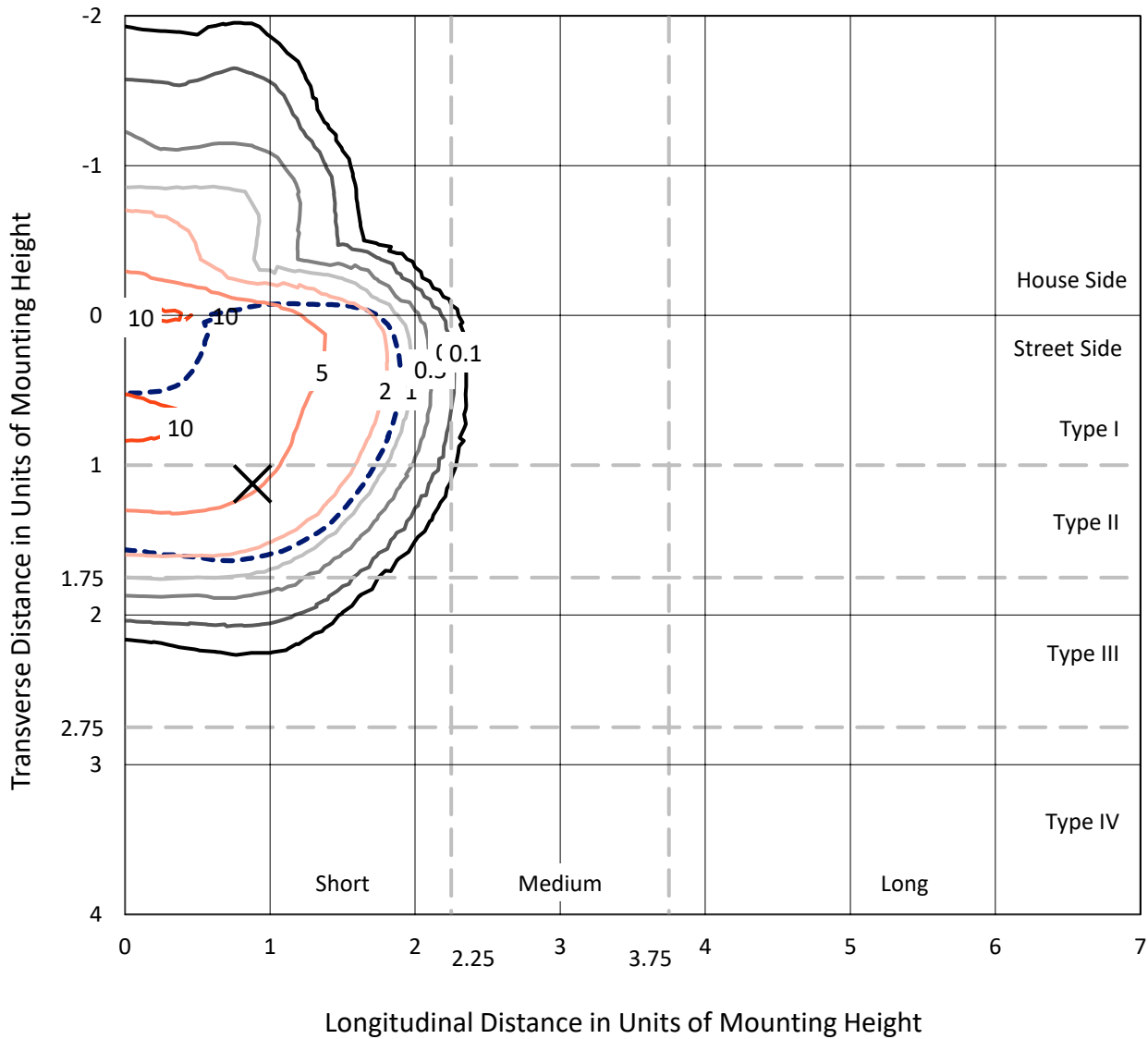
Lumens per Lamp: N/A  
Luminaire Lumens: 26177.9 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

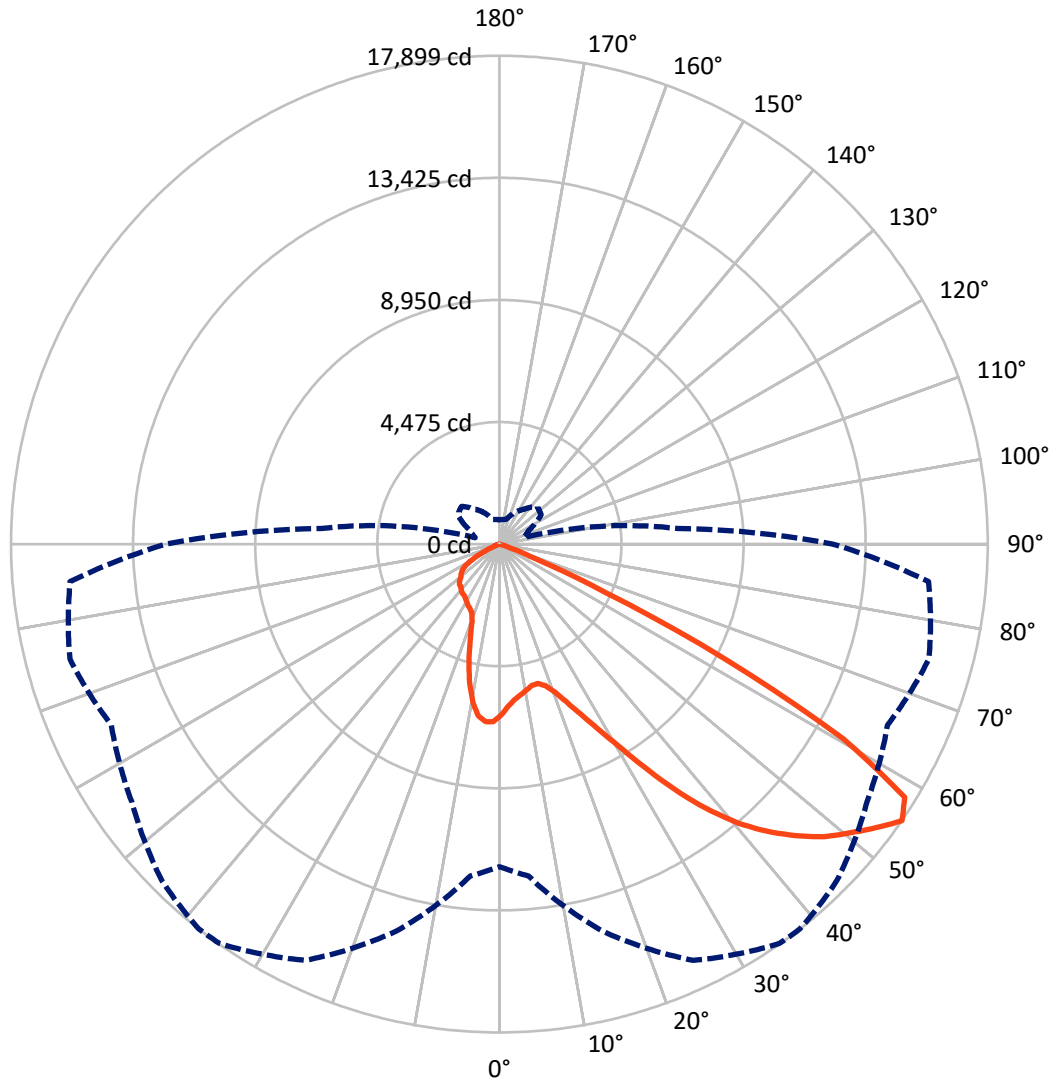
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5100.3	0.0	5100.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	21077.6	0.0	21077.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	26177.9	0.0	26177.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.5	2.2
10°-20°	1562.7	6.0
20°-30°	2681.6	10.2
30°-40°	4447.6	17.0
40°-50°	6538.2	25.0
50°-60°	7640.1	29.2
60°-70°	2589.7	9.9
70°-80°	132.4	0.5
80°-90°	5.2	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°	26177.9	100.0
0°-180°	26177.9	100.0

**Coefficient of Utilization**



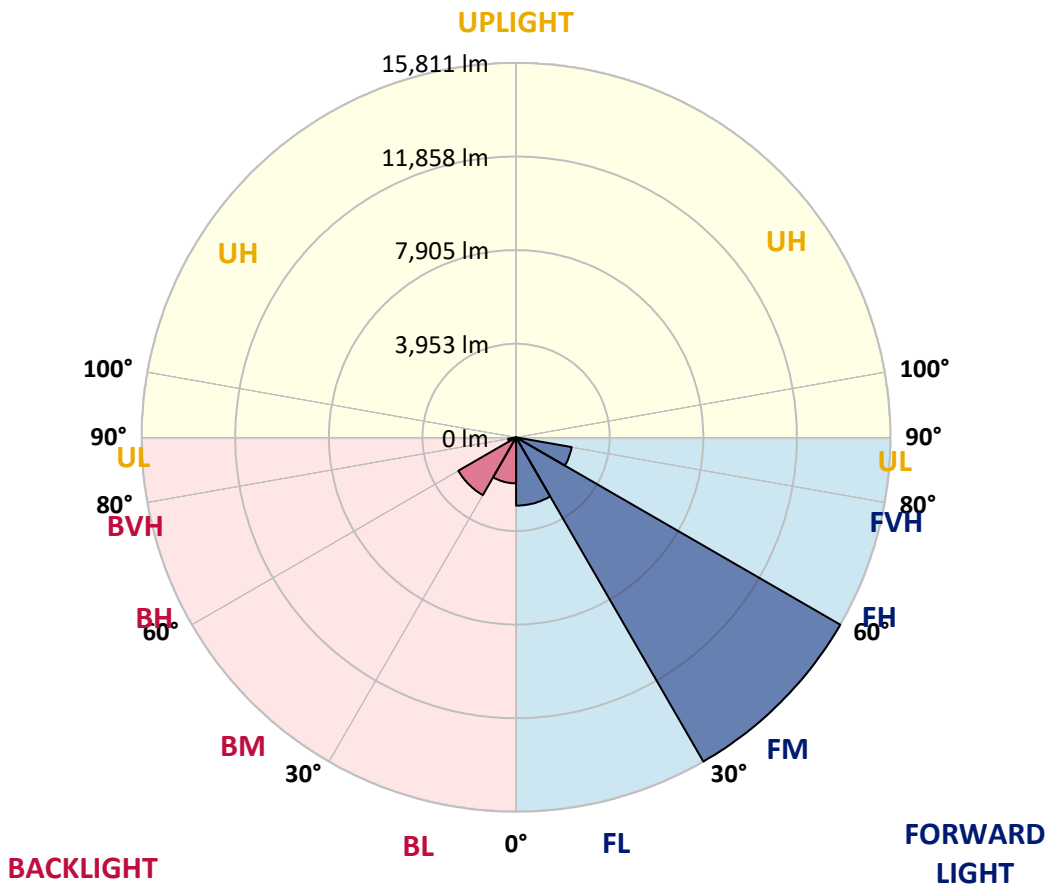
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2881.6	11.0			
FM (30°-60°)	15810.7	60.4			
FH (60°-80°)	2382.6	9.1			G2/5000
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	1943.1	7.4	B3/2500		
BM (30°-60°)	2815.1	10.8	B3/5000		
BH (60°-80°)	339.5	1.3	B1/500		G1/500
BVH (80°-90°)	2.5	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°	38°	45°	55°	65°	75°	85°
0°	6277.7	6277.7	6277.7	6277.7	6277.7	6277.7	6277.7	6277.7	6277.7	6277.7	6277.7
2.5°	5846.8	5834.8	5858.8	5906.6	5951.5	5966.5	6011.4	6074.2	6113.1	6205.8	6280.7
5°	5583.5	5577.5	5601.4	5643.3	5703.2	5724.1	5792.9	5897.6	6002.4	6164.0	6322.5
7.5°	5344.1	5341.1	5377.0	5469.8	5556.5	5583.5	5667.2	5795.9	5936.5	6184.9	6418.3
10°	5029.9	5032.9	5101.7	5233.4	5392.0	5445.8	5580.5	5766.0	5948.5	6268.7	6591.8
12.5°	4928.2	4934.2	4970.1	5071.8	5245.3	5314.2	5502.7	5783.9	6017.3	6388.4	6816.3
15°	5176.5	5176.5	5146.6	5158.6	5236.4	5299.2	5496.7	5843.8	6134.0	6532.0	7037.7
17.5°	5658.3	5640.3	5565.5	5463.8	5436.8	5457.8	5616.4	5972.5	6298.6	6699.6	7289.0
20°	6310.6	6316.6	6169.9	5957.5	5786.9	5783.9	5879.7	6199.9	6535.0	6900.0	7561.3
22.5°	7100.5	7076.6	6882.1	6591.8	6295.6	6271.7	6310.6	6547.0	6876.1	7217.2	7896.4
25°	8016.1	8004.2	7728.9	7339.9	6947.9	6891.1	6891.1	7124.5	7363.8	7669.0	8297.4
27.5°	8973.6	8973.6	8707.3	8258.5	7737.9	7636.1	7621.2	7896.4	8055.0	8114.9	8635.5
30°	9958.1	9946.1	9682.8	9222.0	8665.4	8560.7	8518.8	8722.3	8836.0	8656.5	9057.4
32.5°	10957.5	10978.4	10712.1	10284.2	9787.5	9718.7	9590.0	9590.0	9682.8	9431.5	9721.7
35°	12031.7	12025.7	11816.2	11526.0	11101.1	11023.3	10810.9	10478.7	10619.4	10508.6	10640.3
37.5°	12980.2	13025.1	12923.4	12707.9	12363.8	12286.0	11935.9	11334.5	11442.2	11615.8	11732.5
40°	13943.7	13979.6	14081.3	14012.5	13578.7	13435.0	12812.7	11825.2	11944.9	12540.4	12875.5
42.5°	14889.2	14907.2	15113.7	15227.4	14646.9	14395.5	13476.9	12124.4	12250.1	13264.5	13850.9
45°	15490.7	15529.6	15870.7	16217.8	15589.4	15245.3	14054.4	12507.4	12561.3	13767.2	14572.1
47.5°	15466.7	15556.5	16196.8	16828.2	16400.3	16029.3	14748.6	13120.8	13031.1	14239.9	15047.8
50°	14985.0	15092.7	16011.3	17013.7	16983.8	16639.7	15520.6	14009.5	13728.3	14658.8	15107.7
52.5°	13985.6	14296.8	15685.2	17037.7	17453.6	17280.0	16475.1	15206.4	14670.8	15260.3	15203.4
55°	11825.2	12208.2	14694.8	16834.2	17878.5	17899.4	17477.5	16454.2	15694.2	16295.6	15792.9
57.5°	8976.6	9281.8	11310.6	14985.0	17175.3	17519.4	17866.5	17112.5	16325.5	17001.7	15930.5
60°	5409.9	5763.0	7082.6	10996.4	13871.9	14458.4	15819.8	15673.2	14724.7	15014.9	13064.0
62.5°	2193.3	2378.8	3270.5	6059.2	8731.3	9278.8	10583.5	10804.9	10571.5	10275.3	7923.4
65°	801.9	876.7	1310.6	2504.5	4015.5	4216.0	4904.2	5296.2	5619.4	4784.5	2947.3
67.5°	496.7	544.6	852.8	1286.7	1460.2	1358.5	1382.4	1648.7	1573.9	972.5	526.6
70°	368.0	406.9	667.3	891.7	589.5	454.8	308.2	329.1	296.2	260.3	257.3
72.5°	254.3	290.2	499.7	526.6	227.4	161.6	113.7	158.6	179.5	176.5	182.5
75°	167.6	194.5	314.2	206.5	56.9	44.9	38.9	83.8	107.7	107.7	110.7
77.5°	98.7	113.7	110.7	41.9	12.0	12.0	9.0	15.0	23.9	26.9	32.9
80°	12.0	9.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0
82.5°	3.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0
85°	0.0	0.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0
87.5°	0.0	0.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0
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°	6277.7	6277.7	6277.7	6277.7	6277.7	6277.7	6277.7	6277.7	6277.7	6277.7	6277.7
2.5°	6337.5	6316.6	6403.3	6466.2	6517.0	6541.0	6508.1	6505.1	6505.1	6439.2	6421.3
5°	6412.3	6421.3	6544.0	6597.8	6606.8	6576.9	6502.1	6451.2	6421.3	6352.5	6313.6
7.5°	6555.9	6585.9	6702.6	6693.6	6612.8	6475.1	6277.7	6125.1	6026.3	5918.6	5852.8
10°	6762.4	6819.3	6891.1	6765.4	6508.1	6158.0	5751.0	5460.8	5287.2	5164.6	5089.8
12.5°	7013.7	7070.6	7046.7	6750.4	6214.8	5589.5	5065.8	4646.9	4446.4	4335.7	4257.9
15°	7268.1	7304.0	7148.4	6570.9	5697.2	4856.4	4272.9	3857.0	3611.6	3521.8	3456.0
17.5°	7528.4	7519.4	7166.3	6217.8	5006.0	4030.5	3456.0	3171.7	3102.9	3088.0	3082.0
20°	7800.7	7719.9	7094.5	5712.1	4174.1	3213.6	2887.5	2905.4	3031.1	3091.0	3102.9
22.5°	8111.9	7908.4	6915.0	5026.9	3324.3	2678.0	2710.9	2887.5	3058.0	3138.8	3150.8
25°	8444.0	8082.0	6615.8	4147.2	2621.2	2462.6	2657.1	2860.6	3043.1	3141.8	3153.8
27.5°	8662.5	8123.9	6125.1	3261.5	2250.1	2378.8	2585.3	2779.8	2968.3	3076.0	3091.0
30°	8898.8	8105.9	5457.8	2513.5	2124.5	2307.0	2486.5	2663.1	2836.6	2956.3	2968.3
32.5°	9245.9	8093.9	4643.9	2040.7	2073.6	2250.1	2381.8	2528.4	2648.1	2716.9	2708.0
35°	9700.8	8079.0	3695.4	1840.2	2043.7	2205.3	2310.0	2378.8	2247.2	2205.3	2214.2
37.5°	10284.2	8114.9	2896.5	1756.4	2034.7	2193.3	2283.1	2085.6	1882.1	1804.3	1792.3
40°	10930.6	8207.6	2208.3	1723.5	2064.6	2223.2	2181.3	1855.2	1603.8	1451.2	1418.3
42.5°	11579.9	8309.4	1747.5	1711.5	2115.5	2307.0	2013.8	1687.6	1310.6	1223.8	1211.8
45°	12061.6	8291.4	1511.1	1690.6	2160.4	2354.9	1968.9	1448.2	1170.0	1131.1	1134.0
47.5°	12304.0	8093.9	1382.4	1642.7	2178.3	2307.0	1858.2	1349.5	1074.2	1116.1	1152.0
50°	12175.3	7582.3	1262.7	1550.0	2139.4	2244.2	1681.6	1274.7	1026.3	1199.9	1280.7
52.5°	12019.7	6953.9	1131.1	1406.3	2046.7	2157.4	1612.8	1253.7	996.4	1158.0	1217.8
55°	12226.2	6555.9	915.6	1184.9	1864.1	1953.9	1558.9	1250.7	927.6	900.7	891.7
57.5°	11935.9	5763.0	655.3	852.8	1430.3	1547.0	1520.0	1229.8	822.9	819.9	831.8
60°	9225.0	3515.8	448.8	541.6	876.7	987.4	1379.4	1175.9	709.2	652.3	655.3
62.5°	5242.4	1496.1	308.2	335.1	448.8	532.6	1053.3	1068.2	655.3	622.4	655.3
65°	1825.2	535.6	239.4	224.4	248.4	284.3	604.4	825.9	595.5	538.6	544.6
67.5°	377.0	266.3	212.4	185.5	185.5	185.5	308.2	514.7	490.7	427.9	433.9
70°	239.4	227.4	185.5	158.6	152.6	140.6	176.5	284.3	338.1	311.2	314.2
72.5°	176.5	173.5	146.6	128.7	113.7	101.7	110.7	140.6	173.5	179.5	182.5
75°	107.7	110.7	95.8	80.8	71.8	62.8	65.8	65.8	65.8	59.8	65.8
77.5°	32.9	35.9	29.9	23.9	20.9	20.9	20.9	18.0	15.0	9.0	9.0
80°	9.0	9.0	9.0	9.0	9.0	6.0	6.0	3.0	3.0	0.0	0.0
82.5°	9.0	9.0	9.0	9.0	6.0	6.0	3.0	3.0	0.0	0.0	0.0
85°	9.0	9.0	9.0	9.0	6.0	6.0	3.0	3.0	0.0	0.0	0.0
87.5°	9.0	9.0	9.0	9.0	6.0	6.0	3.0	3.0	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)