

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: P643666

Luminaire Tested: GWS-SA6F-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-735-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

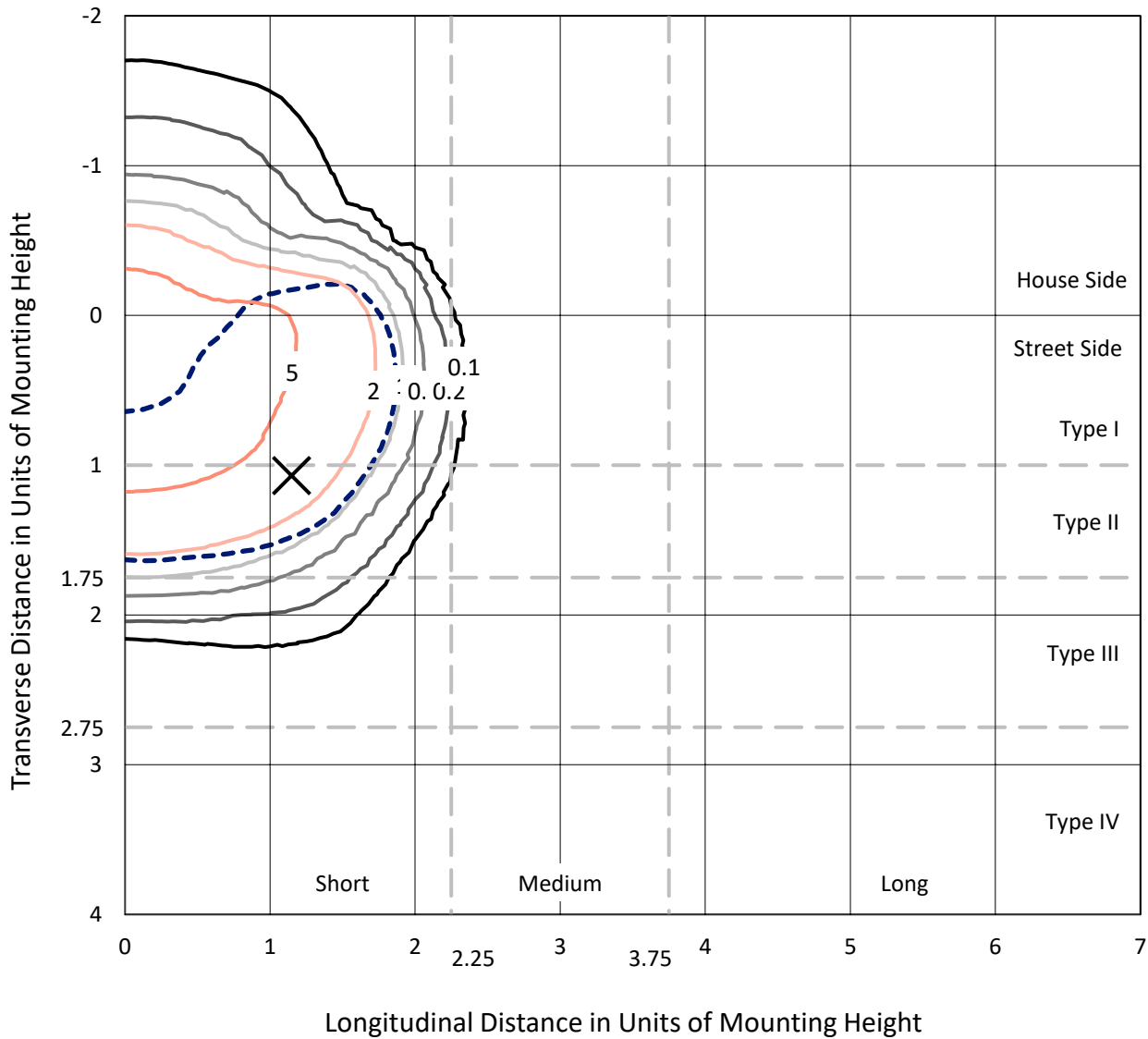
Lumens per Lamp: N/A  
Luminaire Lumens: 30312.4 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

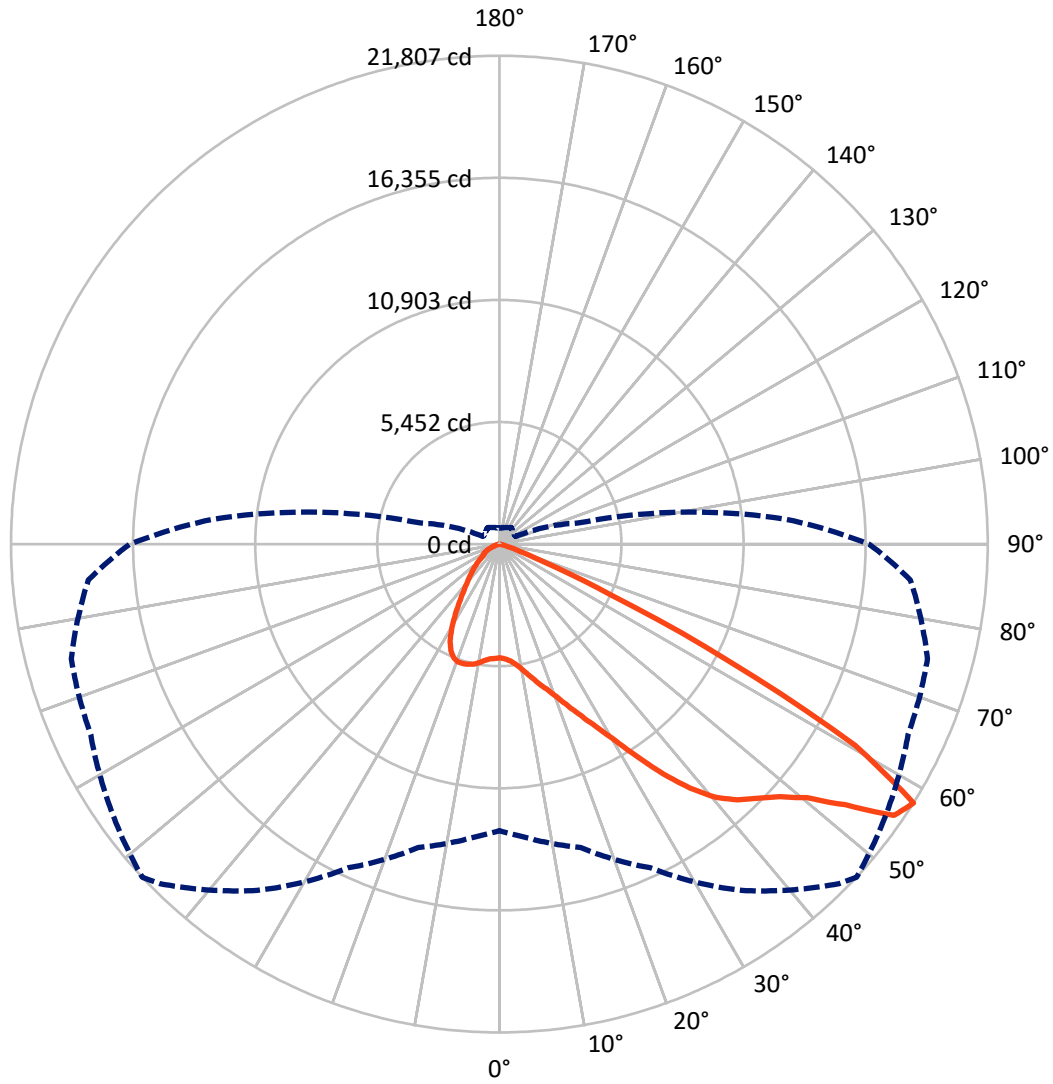
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6576.2	0.0	6576.2
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	23736.1	0.0	23736.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	30312.4	0.0	30312.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.8	1.7
10°-20°	1703.4	5.6
20°-30°	3162.9	10.4
30°-40°	5063.2	16.7
40°-50°	7401.2	24.4
50°-60°	9134.4	30.1
60°-70°	3052.2	10.1
70°-80°	284.4	0.9
80°-90°	5.9	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°	30312.4	100.0
0°-180°	30312.4	100.0

**Coefficient of Utilization**



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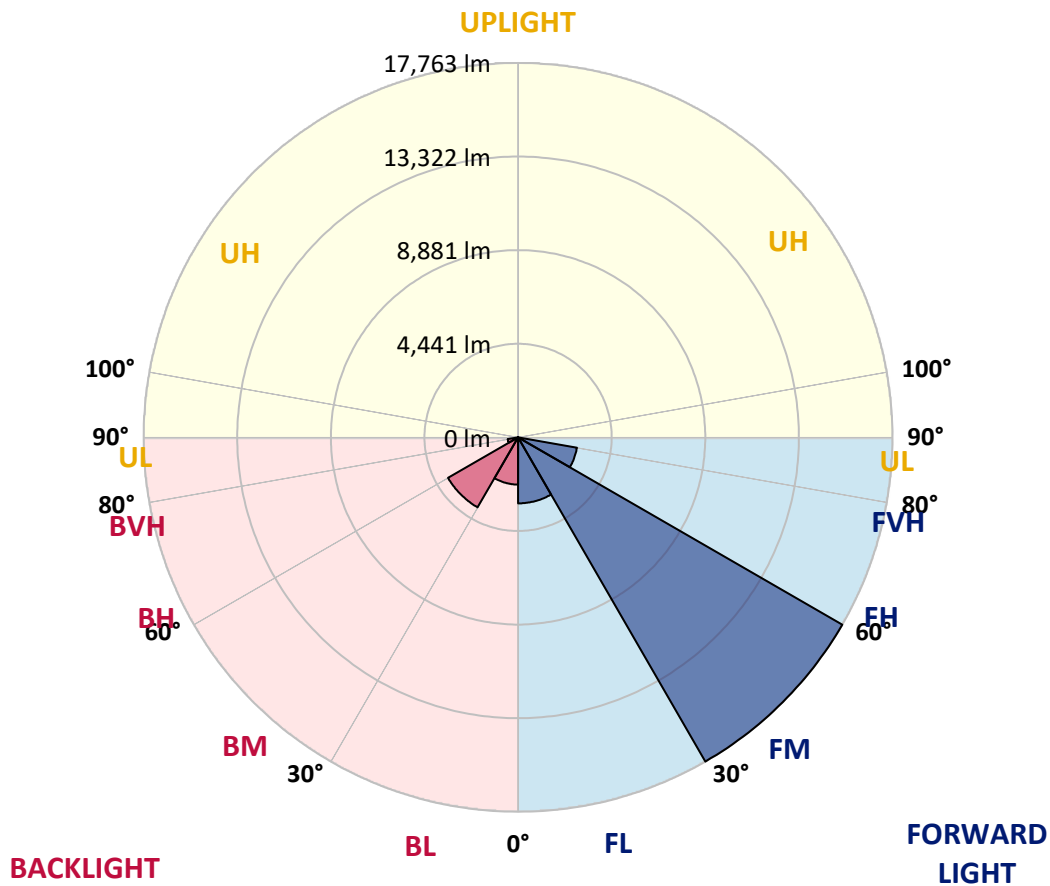
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3132.7	10.3			
FM (30°-60°)	17762.8	58.6			
FH (60°-80°)	2836.6	9.4			G2/5000
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	2238.5	7.4	B3/2500		
BM (30°-60°)	3836.0	12.7	B3/5000		
BH (60°-80°)	500.0	1.6	B1/500		G1/500
BVH (80°-90°)	1.9	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°	45°	47°	55°	65°	75°	85°
0°	5074.3	5074.3	5074.3	5074.3	5074.3	5074.3	5074.3	5074.3	5074.3	5074.3	5074.3
2.5°	5127.1	5123.6	5120.1	5141.2	5134.2	5130.6	5137.7	5137.7	5137.7	5116.6	5074.3
5°	5250.3	5250.3	5246.8	5267.9	5250.3	5239.7	5243.2	5243.2	5229.2	5190.5	5137.7
7.5°	5443.8	5436.8	5429.7	5450.9	5433.3	5429.7	5436.8	5415.7	5391.0	5327.7	5253.8
10°	5721.8	5721.8	5711.3	5732.4	5718.3	5711.3	5711.3	5697.2	5651.4	5552.9	5443.8
12.5°	6105.4	6087.8	6063.2	6045.6	6038.5	6035.0	6038.5	6017.4	5968.1	5841.5	5690.1
15°	6524.1	6510.1	6471.4	6443.2	6404.5	6397.5	6418.6	6401.0	6351.7	6179.3	5964.6
17.5°	7052.0	7069.6	6971.0	6911.2	6798.6	6791.6	6798.6	6826.8	6791.6	6569.9	6256.7
20°	7502.4	7516.5	7442.6	7400.4	7298.3	7252.6	7266.6	7312.4	7273.7	7013.3	6576.9
22.5°	7984.5	8002.1	7924.7	7836.7	7791.0	7791.0	7843.7	7907.1	7854.3	7513.0	6942.9
25°	8561.6	8575.7	8512.3	8396.2	8315.3	8417.3	8494.7	8663.7	8575.7	8111.2	7375.7
27.5°	9223.2	9226.7	9135.2	9015.6	8973.3	9163.4	9240.8	9501.2	9466.0	8783.3	7833.2
30°	9930.5	9934.0	9912.9	9832.0	9793.2	10043.1	10148.7	10525.2	10500.6	9617.3	8456.0
32.5°	10665.9	10665.9	10704.7	10697.6	10743.4	11151.6	11320.5	11749.8	11725.1	10637.8	9230.2
35°	11404.9	11408.4	11475.3	11644.2	11834.2	12376.2	12597.8	13118.7	13062.3	11858.9	10219.0
37.5°	12246.0	12210.8	12302.3	12555.6	12977.9	13604.3	13815.4	14311.6	14248.2	13108.1	11510.5
40°	13259.4	13196.1	13196.1	13491.7	13970.2	14691.6	14871.1	15117.4	14902.8	14118.0	12777.3
42.5°	14378.4	14318.6	14241.2	14501.6	14902.8	15465.8	15613.6	15546.7	15370.8	15071.7	14220.1
45°	15511.5	15420.0	15472.8	15631.2	15863.4	16130.9	16187.2	15877.5	15796.6	15881.0	15413.0
47.5°	16373.7	16310.3	16440.5	16662.2	16852.3	16891.0	16852.3	16422.9	16415.9	16715.0	16240.0
50°	16662.2	16669.3	17028.2	17513.8	17820.0	17851.6	17798.9	17306.2	17239.3	17327.3	16686.9
52.5°	16690.4	16718.5	17242.9	18168.3	19002.3	19382.4	19340.2	18808.8	18154.3	18059.3	17362.5
55°	16011.2	16176.6	16908.6	18259.8	20033.4	21247.4	21388.2	20371.2	19400.0	19319.0	18815.8
57.5°	12798.4	13136.2	14019.5	15944.4	18882.7	21441.0	21806.9	21075.0	20135.4	19790.6	18425.2
60°	7650.2	8069.0	8917.0	11278.2	14371.4	17622.9	18252.8	18354.9	17922.0	16926.2	14135.6
62.5°	3283.2	3248.0	4293.1	6101.9	8547.5	11200.8	11485.9	11929.2	12305.8	11264.2	8579.2
65°	1126.1	1224.6	1703.2	2751.8	4279.0	5201.0	5454.4	5852.0	6386.9	5271.4	3142.4
67.5°	696.8	739.0	981.8	1625.8	2308.4	2273.2	2160.6	2097.3	2041.0	1397.0	862.1
70°	506.7	541.9	689.7	1119.0	1551.9	1090.9	946.6	767.1	851.6	784.7	612.3
72.5°	341.3	369.5	475.1	679.2	795.3	531.4	492.7	559.5	675.6	644.0	499.7
75°	204.1	221.7	271.0	330.8	323.7	274.5	278.0	394.1	517.3	482.1	355.4
77.5°	140.8	147.8	179.5	214.7	158.4	84.5	77.4	109.1	175.9	175.9	119.6
80°	35.2	45.7	45.7	28.2	24.6	21.1	21.1	31.7	49.3	35.2	17.6
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	7.0	7.0	7.0	7.0
85°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	7.0	7.0	7.0
87.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	7.0	7.0
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°	5074.3	5074.3	5074.3	5074.3	5074.3	5074.3	5074.3	5074.3	5074.3	5074.3	5074.3
2.5°	5099.0	5056.7	5084.9	5077.8	5099.0	5106.0	5074.3	5067.3	5070.8	5028.6	5014.5
5°	5148.2	5099.0	5113.0	5099.0	5123.6	5144.7	5134.2	5148.2	5165.8	5134.2	5120.1
7.5°	5253.8	5204.5	5201.0	5179.9	5215.1	5229.2	5225.6	5264.4	5299.5	5278.4	5257.3
10°	5436.8	5369.9	5362.9	5345.3	5355.8	5366.4	5327.7	5334.7	5366.4	5341.8	5331.2
12.5°	5662.0	5581.1	5563.5	5521.2	5521.2	5468.5	5384.0	5366.4	5391.0	5373.4	5355.8
15°	5904.8	5795.7	5767.6	5693.7	5623.3	5524.8	5436.8	5415.7	5433.3	5412.1	5398.1
17.5°	6175.8	6052.6	5961.1	5830.9	5676.1	5559.9	5461.4	5415.7	5387.5	5345.3	5341.8
20°	6443.2	6281.3	6126.5	5918.9	5714.8	5538.8	5377.0	5257.3	5155.3	5091.9	5067.3
22.5°	6752.9	6513.6	6263.7	5971.7	5679.6	5412.1	5127.1	4923.0	4747.1	4687.2	4659.1
25°	7083.6	6774.0	6401.0	6020.9	5559.9	5130.6	4743.5	4440.9	4208.7	4131.2	4099.6
27.5°	7449.6	7023.8	6541.7	6010.4	5313.6	4729.5	4215.7	3839.2	3610.4	3540.1	3564.7
30°	7914.1	7347.6	6717.7	5901.3	4944.1	4166.4	3564.7	3248.0	3075.6	3008.7	3012.2
32.5°	8533.5	7812.1	6974.6	5669.0	4469.1	3526.0	2998.1	2765.9	2649.8	2561.8	2554.8
35°	9420.2	8519.4	7213.9	5296.0	3892.0	2955.9	2572.4	2389.4	2227.5	2125.4	2143.0
37.5°	10483.0	9409.7	7344.1	4792.8	3244.5	2512.5	2252.1	2065.6	1882.6	1731.3	1748.9
40°	11742.7	10574.4	7333.5	4131.2	2653.3	2209.9	1984.7	1766.5	1537.8	1400.5	1414.6
42.5°	13146.8	11675.9	7104.8	3431.0	2199.3	1963.6	1727.8	1453.3	1231.6	1147.2	1150.7
45°	14364.4	12569.7	6703.6	2706.1	1851.0	1724.3	1460.4	1178.8	1080.3	1020.5	1017.0
47.5°	15265.2	13224.2	6130.0	2129.0	1569.5	1506.1	1200.0	1055.7	978.3	929.0	922.0
50°	15768.4	13453.0	5496.6	1668.0	1326.6	1277.4	1073.3	957.2	904.4	872.7	865.7
52.5°	16444.1	13727.4	5042.7	1316.1	1112.0	1045.1	988.8	890.3	855.1	830.5	819.9
55°	17513.8	14258.8	4648.5	1045.1	925.5	911.4	932.5	851.6	830.5	791.8	777.7
57.5°	16507.4	12809.0	3610.4	809.4	781.2	834.0	900.9	812.9	760.1	724.9	710.8
60°	11616.1	8515.9	1815.8	651.0	696.8	781.2	848.1	735.5	682.7	689.7	682.7
62.5°	6404.5	4261.5	816.4	545.4	605.3	689.7	724.9	636.9	601.7	661.6	672.1
65°	2093.8	1449.8	471.5	422.3	478.6	563.0	626.4	605.3	598.2	668.6	689.7
67.5°	644.0	478.6	320.2	302.6	330.8	415.2	527.8	654.5	703.8	724.9	735.5
70°	482.1	376.5	274.5	256.9	271.0	316.7	446.9	545.4	513.8	517.3	510.2
72.5°	387.1	299.1	235.8	225.2	225.2	218.2	235.8	295.6	334.3	351.9	351.9
75°	271.0	211.1	179.5	165.4	130.2	105.6	95.0	95.0	84.5	80.9	77.4
77.5°	91.5	77.4	70.4	56.3	38.7	31.7	28.2	24.6	17.6	10.6	7.0
80°	14.1	10.6	7.0	7.0	7.0	3.5	3.5	3.5	0.0	0.0	0.0
82.5°	7.0	7.0	7.0	7.0	7.0	3.5	3.5	0.0	0.0	0.0	0.0
85°	7.0	7.0	7.0	7.0	7.0	3.5	3.5	0.0	0.0	0.0	0.0
87.5°	7.0	7.0	7.0	7.0	3.5	3.5	3.5	0.0	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)