

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: P642651

Luminaire Tested: GWS-SA6D-735-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642651  
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-SA6D-735-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

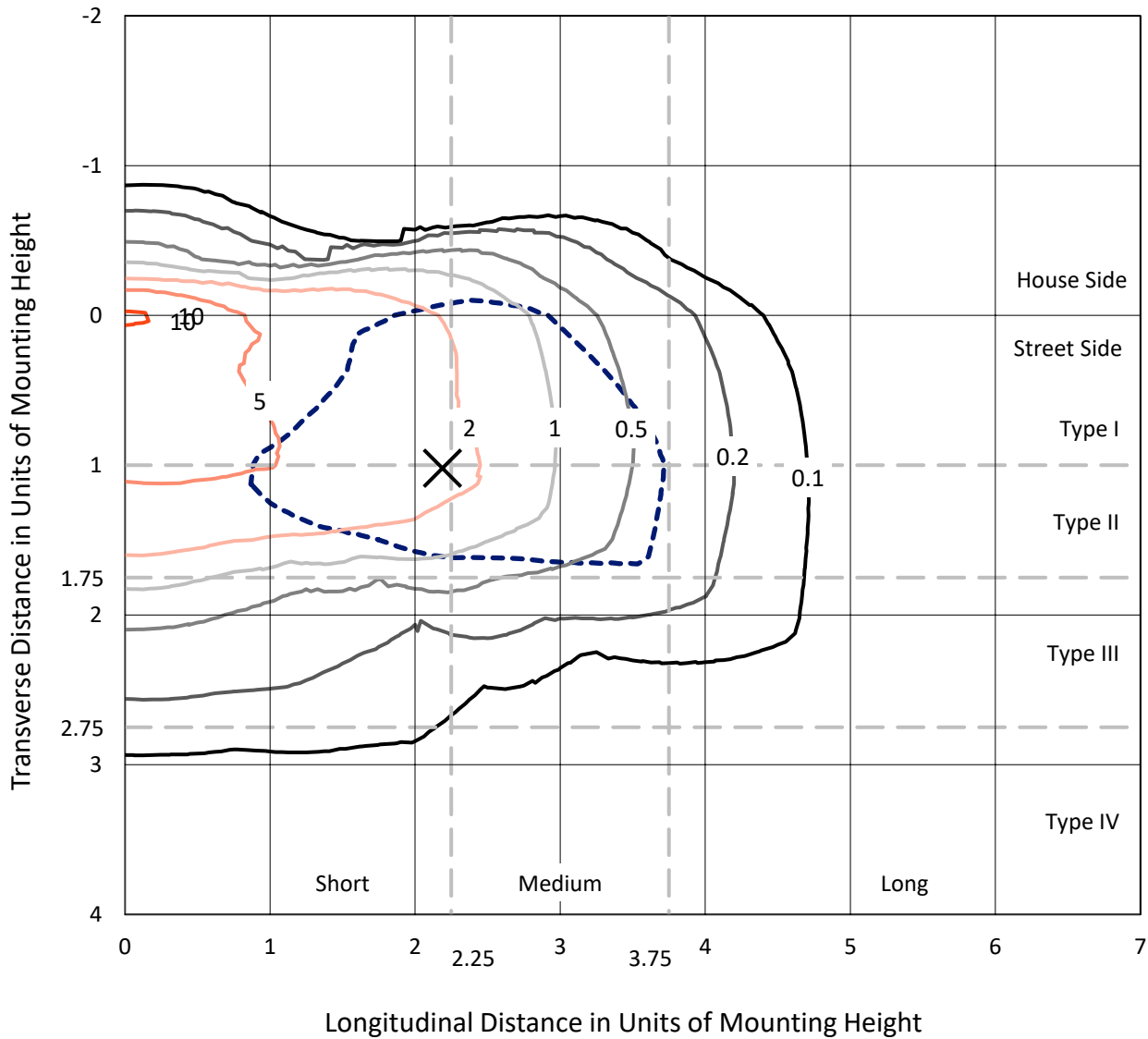
Lumens per Lamp: N/A  
Luminaire Lumens: 28007.2 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

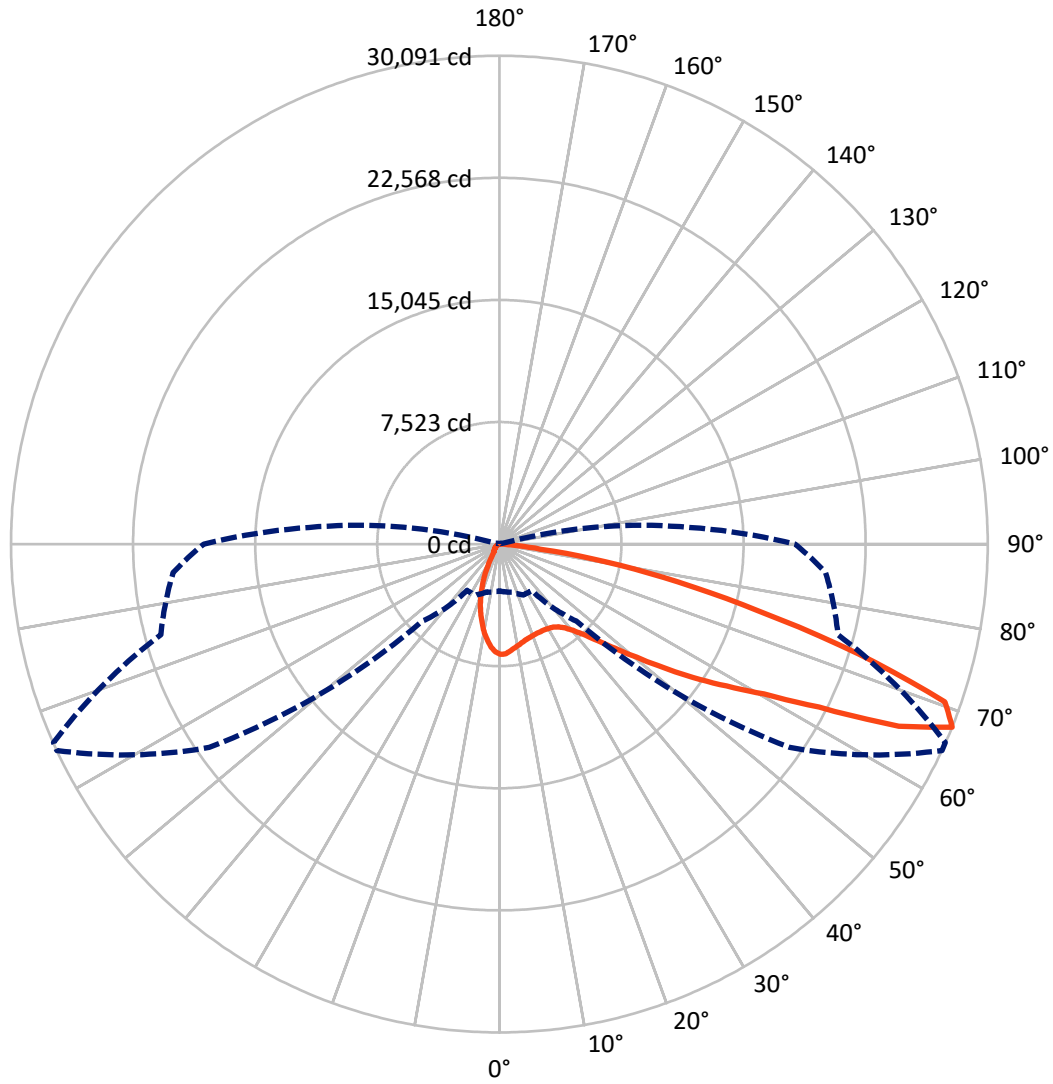
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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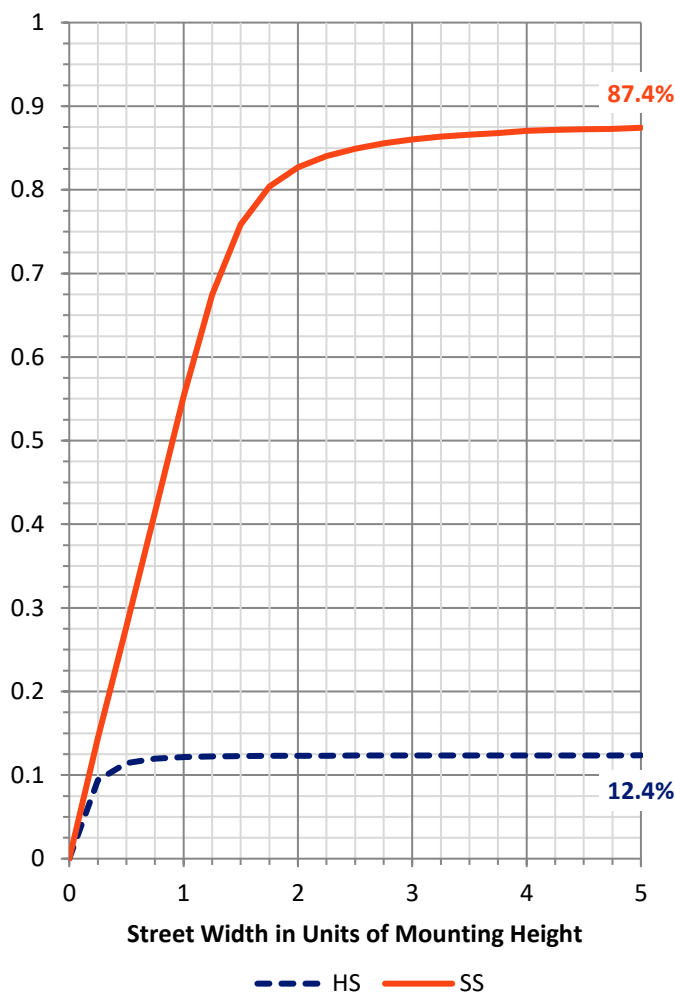
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3497.3	0.0	3497.3
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	24509.9	0.0	24509.9
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	28007.2	0.0	28007.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.2	2.0
10°-20°	1268.2	4.5
20°-30°	1812.2	6.5
30°-40°	2636.5	9.4
40°-50°	4129.2	14.7
50°-60°	6441.7	23.0
60°-70°	7075.9	25.3
70°-80°	3765.8	13.4
80°-90°	313.5	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°	28007.2	100.0
0°-180°	28007.2	100.0

**Coefficient of Utilization**



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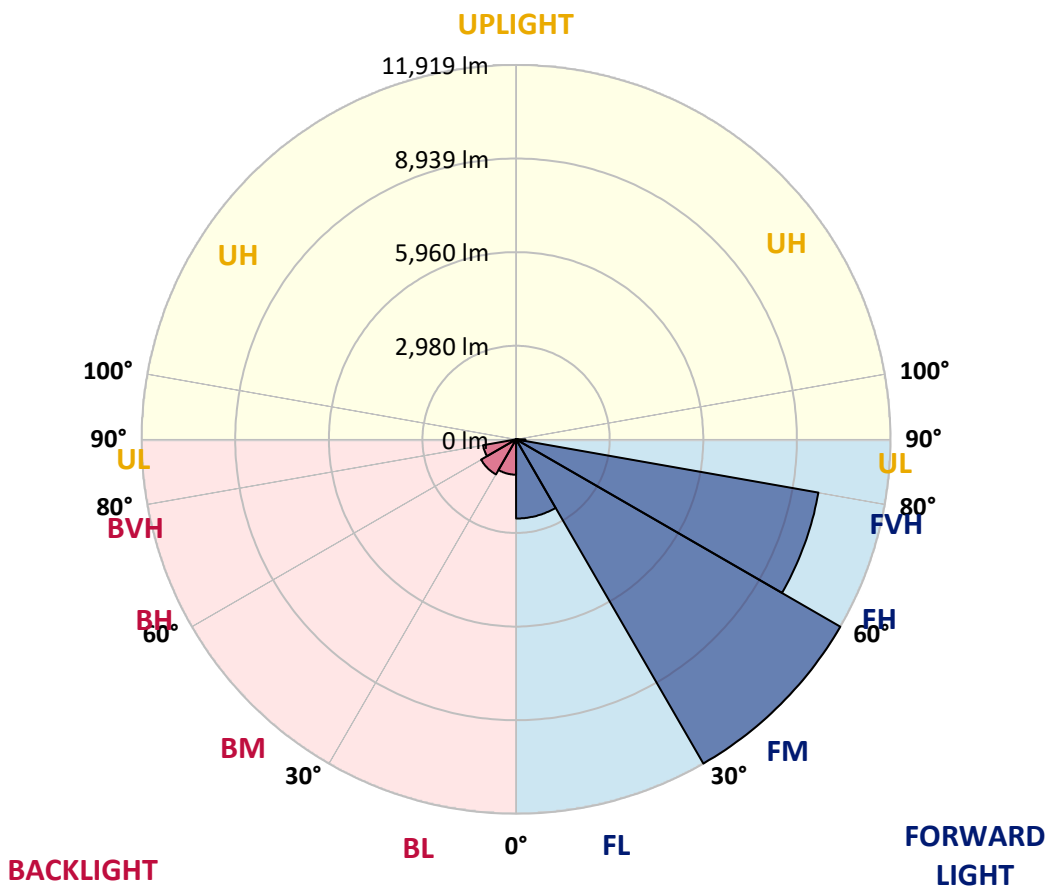
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2520.5	9.0			
FM (30°-60°)	11919.3	42.6			
FH (60°-80°)	9773.4	34.9			G4/12000
FVH (80°-90°)	296.7	1.1			G3/500
BL (0°-30°)	1124.1	4.0	B3/2500		
BM (30°-60°)	1288.2	4.6	B2/2500		
BH (60°-80°)	1068.2	3.8	B3/2500		G3/2500
BVH (80°-90°)	16.8	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°	6792.6	6792.6	6792.6	6792.6	6792.6	6792.6	6792.6	6792.6	6792.6	6792.6	6792.6
2.5°	6557.1	6577.4	6549.5	6617.9	6630.5	6706.5	6749.6	6780.0	6777.4	6815.4	6815.4
5°	6172.1	6192.4	6177.2	6250.6	6308.9	6427.9	6526.7	6640.7	6645.7	6762.2	6805.3
7.5°	5845.4	5847.9	5847.9	5939.1	6015.1	6162.0	6308.9	6483.6	6503.9	6683.7	6797.7
10°	5576.9	5584.5	5587.1	5690.9	5774.5	5951.8	6139.2	6349.4	6372.2	6615.3	6792.6
12.5°	5392.1	5394.6	5404.7	5513.6	5604.8	5789.7	5979.6	6220.2	6250.6	6536.8	6769.8
15°	5303.4	5298.4	5303.4	5394.6	5485.8	5663.1	5858.1	6116.4	6149.3	6471.0	6772.4
17.5°	5298.4	5290.8	5285.7	5354.1	5412.3	5569.3	5766.9	6048.0	6083.5	6440.6	6800.2
20°	5371.8	5366.7	5341.4	5371.8	5384.5	5513.6	5708.6	5994.8	6030.3	6435.5	6861.0
22.5°	5564.3	5551.6	5513.6	5485.8	5417.4	5493.4	5668.1	5956.8	5997.4	6448.2	6939.5
25°	5850.5	5845.4	5797.3	5728.9	5554.2	5523.8	5670.7	5956.8	5994.8	6463.4	7023.1
27.5°	6281.0	6250.6	6189.9	6070.8	5820.1	5642.8	5721.3	5972.0	6010.0	6483.6	7091.5
30°	6719.2	6716.6	6696.4	6574.8	6202.5	5870.7	5827.7	6012.6	6048.0	6501.4	7154.8
32.5°	7172.5	7180.1	7230.8	7137.1	6729.3	6210.1	6020.2	6096.1	6121.5	6536.8	7210.5
35°	7603.1	7618.3	7752.5	7785.4	7370.1	6724.2	6334.2	6263.3	6265.8	6615.3	7284.0
37.5°	8015.9	8066.6	8281.8	8441.4	8167.9	7347.3	6787.6	6547.0	6526.7	6772.4	7395.4
40°	8484.5	8580.7	8851.7	9122.7	9036.6	8170.4	7405.5	6982.6	6939.5	7061.1	7595.5
42.5°	9003.7	9107.5	9467.1	9847.0	9887.6	9165.7	8178.0	7618.3	7544.8	7547.4	7970.3
45°	9560.8	9700.1	10118.0	10665.1	10910.8	10275.1	9130.3	8476.9	8403.4	8294.5	8573.1
47.5°	10292.8	10414.4	10817.0	11447.7	11918.8	11465.4	10378.9	9581.1	9446.9	9287.3	9510.2
50°	10923.4	11029.8	11376.8	12167.0	13147.1	13000.2	11794.7	10961.4	10832.2	10561.2	10746.1
52.5°	11062.7	11146.3	11465.4	12354.4	14086.7	14937.7	13529.5	12630.4	12539.3	12037.8	12108.7
55°	10437.1	10563.8	10850.0	11837.7	14332.4	16832.1	15781.1	14512.2	14322.3	13521.9	13648.6
57.5°	8856.8	9082.2	9350.6	10634.7	13666.3	17840.1	18926.7	16505.4	16333.2	14950.4	14952.9
60°	6491.2	6673.6	6853.4	8028.6	12085.9	17771.8	21781.0	18744.3	18430.3	16117.9	16074.9
62.5°	4720.9	4814.6	4812.1	5230.0	8299.6	16601.7	23280.3	22117.8	21385.9	17366.5	17120.9
65°	3712.9	3710.4	3819.3	3956.0	4634.8	12815.3	23465.2	27043.9	26253.7	19040.6	18529.0
67.5°	2889.8	2945.5	3054.4	3457.1	3482.4	6706.5	21839.2	30090.7	30075.5	21596.1	20177.8
70°	2228.8	2304.7	2459.2	3046.8	3216.5	3753.4	16340.8	29125.7	29371.4	22738.3	19010.2
72.5°	1431.0	1425.9	1653.8	2461.8	3089.9	3127.9	9036.6	23136.0	23414.6	20595.7	15370.8
75°	800.3	805.4	934.6	1506.9	2879.6	2943.0	4475.2	16497.8	16718.2	16057.1	11809.9
77.5°	314.1	324.2	438.2	792.7	1899.5	2628.9	2659.3	11250.1	11283.1	9950.9	7243.4
80°	126.6	134.2	222.9	491.3	1157.4	1770.3	1899.5	6628.0	6493.8	3852.2	2107.2
82.5°	38.0	40.5	88.6	278.6	605.3	1258.7	1281.5	2542.8	2401.0	828.2	536.9
85°	2.5	2.5	20.3	86.1	215.3	316.6	853.5	828.2	734.5	207.7	238.1
87.5°	0.0	0.0	2.5	2.5	5.1	10.1	91.2	152.0	154.5	38.0	106.4
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°	6792.6	6792.6	6792.6	6792.6	6792.6	6792.6	6792.6	6792.6	6792.6	6792.6	6792.6
2.5°	6815.4	6724.2	6716.6	6645.7	6574.8	6486.2	6382.3	6306.4	6253.2	6159.5	6141.7
5°	6805.3	6683.7	6569.8	6367.1	6141.7	5898.6	5685.9	5488.3	5364.2	5280.6	5245.2
7.5°	6785.0	6630.5	6367.1	5984.7	5607.3	5181.8	4850.1	4546.1	4338.5	4216.9	4163.7
10°	6769.8	6562.2	6134.1	5554.2	4969.1	4381.5	3877.5	3426.7	3176.0	2978.4	2945.5
12.5°	6739.4	6463.4	5835.3	5050.1	4295.4	3515.3	2872.1	2319.9	1937.5	1765.3	1704.5
15°	6709.1	6359.5	5536.4	4518.3	3560.9	2598.5	1818.5	1286.6	1023.2	942.2	937.1
17.5°	6704.0	6265.8	5212.2	4014.3	2791.0	1702.0	1035.9	833.2	777.5	757.3	757.3
20°	6719.2	6187.3	4893.1	3434.3	2033.7	1035.9	772.5	721.8	688.9	671.2	671.2
22.5°	6734.4	6106.3	4586.7	2849.3	1349.9	757.3	681.3	638.2	600.2	580.0	569.9
25°	6744.5	6017.6	4247.3	2261.7	881.4	658.5	597.7	542.0	496.4	471.1	471.1
27.5°	6742.0	5911.3	3905.4	1686.8	683.8	585.0	511.6	453.3	407.8	379.9	382.4
30°	6721.7	5794.8	3550.8	1177.7	597.7	511.6	438.2	377.4	331.8	309.0	306.5
32.5°	6706.5	5670.7	3140.5	828.2	536.9	448.3	372.3	314.1	276.1	258.3	255.8
35°	6688.8	5549.1	2750.5	630.6	483.7	387.5	314.1	265.9	235.5	220.3	220.3
37.5°	6693.9	5422.5	2327.5	542.0	430.6	336.8	268.5	227.9	202.6	187.4	184.9
40°	6772.4	5346.5	1912.2	491.3	382.4	291.3	233.0	197.5	172.2	157.0	154.5
42.5°	6967.4	5349.0	1514.5	453.3	339.4	248.2	202.6	169.7	146.9	129.2	126.6
45°	7357.4	5455.4	1162.5	412.8	293.8	215.3	174.8	144.4	121.6	106.4	103.8
47.5°	7995.6	5772.0	881.4	377.4	255.8	187.4	149.4	121.6	101.3	88.6	86.1
50°	9011.2	6344.3	694.0	334.3	215.3	162.1	126.6	101.3	83.6	70.9	68.4
52.5°	10232.0	7202.9	595.2	296.3	184.9	141.8	108.9	83.6	68.4	58.3	55.7
55°	11635.1	8228.7	549.6	258.3	157.0	121.6	88.6	68.4	55.7	48.1	43.1
57.5°	12921.7	9153.1	547.1	220.3	134.2	103.8	73.4	58.3	48.1	38.0	35.5
60°	14175.4	9925.5	514.1	182.4	116.5	86.1	63.3	48.1	40.5	32.9	30.4
62.5°	15312.5	10553.6	430.6	146.9	98.8	70.9	53.2	43.1	35.5	27.9	27.9
65°	16741.0	11354.0	329.2	119.0	81.0	58.3	45.6	38.0	32.9	25.3	25.3
67.5°	18217.5	11776.9	235.5	98.8	65.8	50.7	40.5	35.5	27.9	22.8	22.8
70°	16500.4	9950.9	169.7	81.0	55.7	43.1	35.5	32.9	27.9	22.8	20.3
72.5°	12886.2	7175.1	126.6	63.3	48.1	40.5	32.9	30.4	25.3	20.3	20.3
75°	9555.8	4184.0	96.2	50.7	38.0	32.9	32.9	30.4	25.3	20.3	17.7
77.5°	5194.5	1458.8	73.4	40.5	30.4	25.3	27.9	27.9	22.8	17.7	15.2
80°	1375.2	400.2	50.7	30.4	25.3	20.3	20.3	25.3	20.3	15.2	15.2
82.5°	400.2	116.5	35.5	25.3	20.3	17.7	17.7	17.7	15.2	12.7	10.1
85°	195.0	43.1	25.3	20.3	17.7	15.2	12.7	12.7	10.1	7.6	7.6
87.5°	86.1	17.7	20.3	17.7	17.7	12.7	10.1	7.6	7.6	5.1	2.5
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)