

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: P640177

Luminaire Tested: GWS-SA5D-735-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

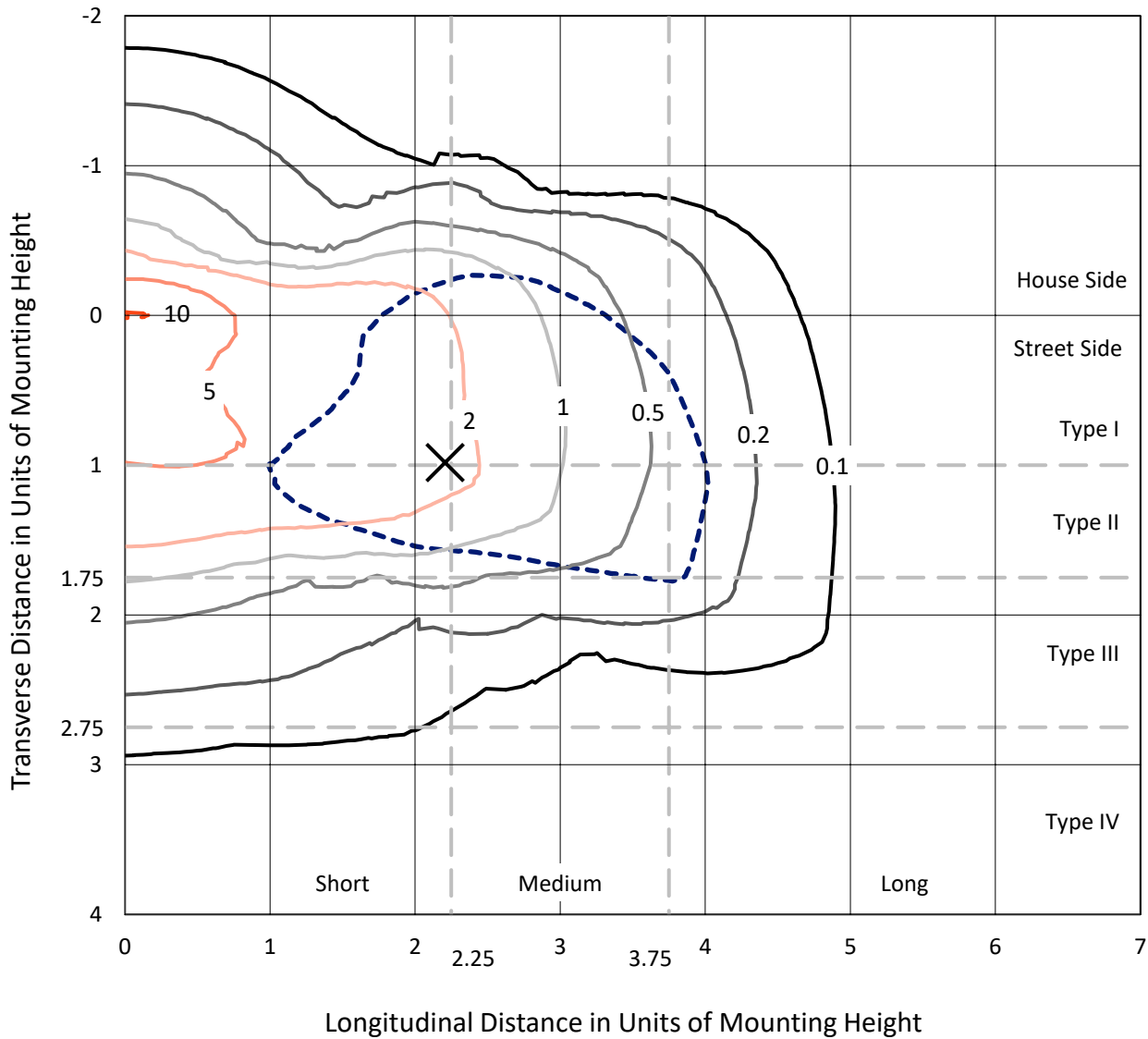
Lumens per Lamp: N/A  
Luminaire Lumens: 29116.2 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

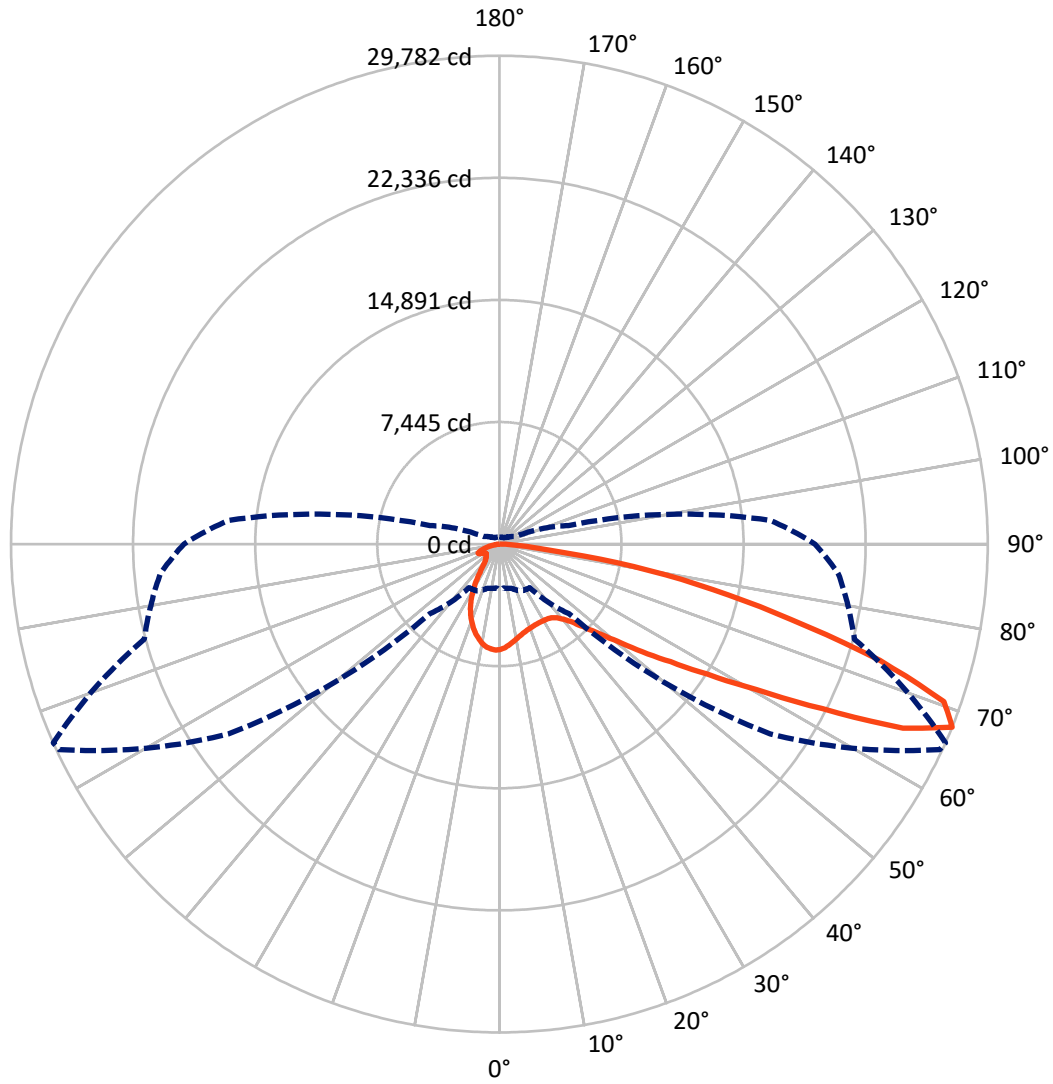
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5908.4	0.0	5908.4
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	23207.9	0.0	23207.9
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	29116.2	0.0	29116.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.6	1.9
10°-20°	1387.7	4.8
20°-30°	1907.4	6.6
30°-40°	2607.8	9.0
40°-50°	3951.5	13.6
50°-60°	6142.7	21.1
60°-70°	7478.6	25.7
70°-80°	4555.6	15.6
80°-90°	520.4	1.8
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°	29116.2	100.0
0°-180°	29116.2	100.0

**Coefficient of Utilization**



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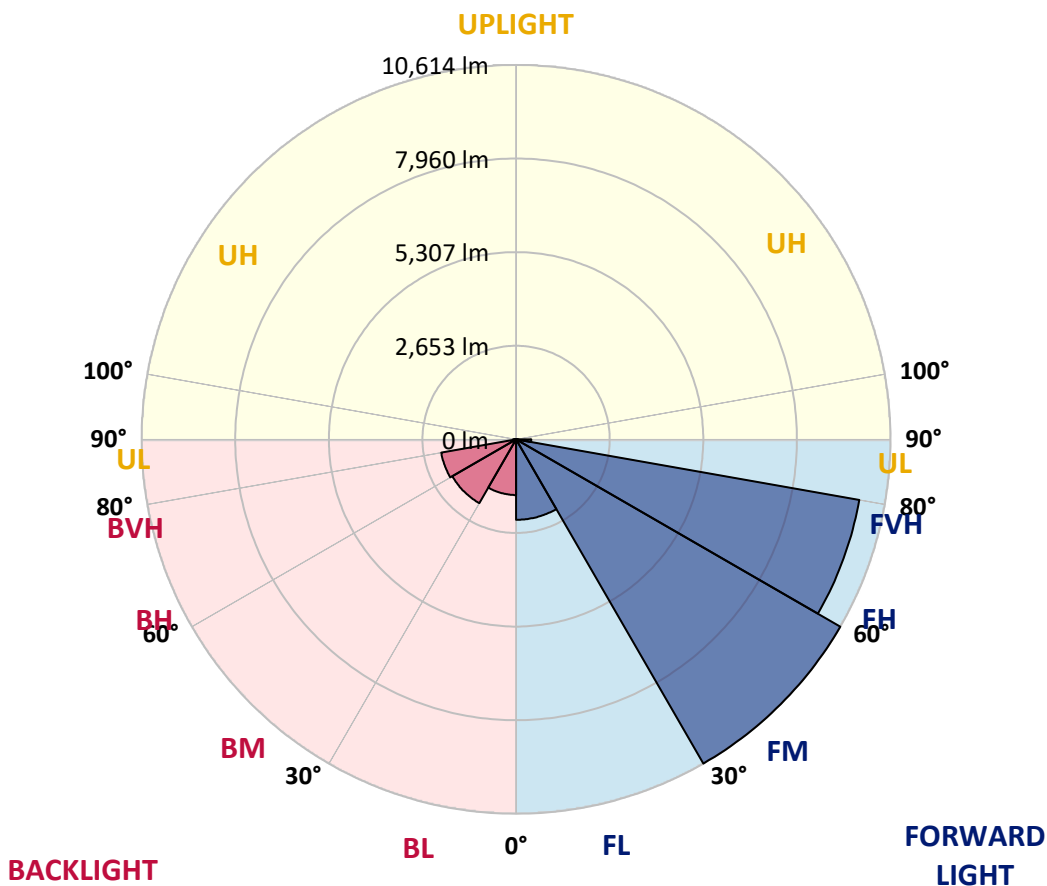
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2281.4	7.8			
FM (30°-60°)	10614.0	36.5			
FH (60°-80°)	9879.9	33.9			G4/12000
FVH (80°-90°)	432.6	1.5			G3/500
BL (0°-30°)	1578.4	5.4	B3/2500		
BM (30°-60°)	2087.9	7.2	B2/2500		
BH (60°-80°)	2154.3	7.4	B3/2500		G3/2500
BVH (80°-90°)	87.7	0.3			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°	6433.9	6433.9	6433.9	6433.9	6433.9	6433.9	6433.9	6433.9	6433.9	6433.9	6433.9
2.5°	6026.0	6047.3	6034.5	6115.2	6119.5	6221.4	6278.8	6327.6	6331.9	6395.6	6438.1
5°	5614.0	5626.7	5626.7	5703.2	5754.1	5890.1	6021.8	6162.0	6172.6	6325.5	6442.3
7.5°	5280.5	5293.2	5284.7	5386.7	5452.5	5603.3	5771.1	5985.7	6006.9	6253.3	6457.2
10°	5019.2	5015.0	5036.2	5129.7	5214.6	5395.2	5582.1	5826.4	5858.2	6170.5	6474.2
12.5°	4840.8	4845.0	4857.8	4955.5	5046.8	5225.2	5418.5	5684.1	5718.0	6074.9	6465.7
15°	4755.8	4747.3	4758.0	4847.2	4934.2	5091.4	5291.1	5565.1	5599.1	5989.9	6467.8
17.5°	4736.7	4730.3	4728.2	4791.9	4857.8	5004.3	5195.5	5473.8	5509.9	5934.7	6480.6
20°	4796.2	4787.7	4764.3	4791.9	4819.5	4942.7	5127.5	5407.9	5448.3	5898.6	6506.1
22.5°	4959.7	4944.9	4908.8	4874.8	4838.7	4913.0	5085.1	5359.1	5399.4	5875.2	6531.6
25°	5208.3	5195.5	5157.3	5080.8	4949.1	4936.4	5076.6	5337.8	5378.2	5858.2	6542.2
27.5°	5550.2	5531.1	5492.9	5382.4	5167.9	5023.5	5108.4	5335.7	5373.9	5839.1	6531.6
30°	5955.9	5943.2	5921.9	5788.1	5501.4	5208.3	5180.6	5352.7	5382.4	5828.5	6510.3
32.5°	6368.0	6355.3	6372.3	6308.5	5955.9	5514.1	5337.8	5399.4	5420.7	5826.4	6491.2
35°	6731.2	6746.1	6869.3	6879.9	6533.7	5928.3	5586.3	5507.8	5512.0	5868.8	6499.7
37.5°	7111.4	7168.8	7330.2	7468.3	7179.4	6476.3	5955.9	5711.7	5707.4	5977.2	6552.8
40°	7614.8	7640.3	7846.4	8105.5	7925.0	7228.3	6480.6	6045.1	6015.4	6198.1	6695.1
42.5°	8105.5	8167.1	8496.3	8793.7	8734.2	8075.8	7141.2	6544.3	6491.2	6588.9	6988.2
45°	8730.0	8789.5	9159.1	9541.4	9649.7	9033.7	7986.6	7253.8	7200.6	7177.3	7525.6
47.5°	9354.5	9416.1	9747.4	10299.7	10679.9	10231.7	9086.8	8190.5	8103.4	8012.0	8337.0
50°	9775.0	9847.3	10163.7	10826.5	11718.6	11727.1	10391.0	9418.2	9307.7	9163.3	9479.8
52.5°	9760.2	9806.9	10108.5	10873.2	12466.3	13445.5	12137.0	10981.5	10892.3	10577.9	10854.1
55°	8993.4	9063.5	9367.2	10323.1	12547.0	15074.6	14702.9	12825.2	12665.9	12103.0	12406.8
57.5°	7453.4	7512.9	7818.8	8997.6	11831.2	15909.4	17961.3	15174.5	14955.7	13764.1	14114.5
60°	5626.7	5554.5	5698.9	6731.2	10119.1	15930.6	20837.3	18360.6	17995.2	15539.8	15832.9
62.5°	4222.7	4150.5	4182.3	4473.3	6860.8	14643.4	22477.1	22719.2	22116.0	17544.9	17487.6
65°	3336.9	3296.6	3387.9	3587.6	3999.7	11151.4	22489.8	27432.6	27052.3	19868.7	19184.7
67.5°	2718.8	2693.3	2786.8	3156.4	3243.5	5992.0	20166.1	29633.1	29781.8	22413.3	20758.7
70°	2189.9	2151.7	2298.3	2784.7	3016.2	3625.8	14445.9	28511.6	28751.6	23929.9	20314.7
72.5°	1512.3	1514.5	1588.8	2255.8	2912.1	3130.9	8171.4	23740.9	24261.3	22555.7	17859.3
75°	1019.6	1028.1	1049.3	1489.0	2682.7	3037.4	4354.4	17974.0	18341.5	18643.1	14762.4
77.5°	616.0	620.2	669.1	900.6	1850.1	2835.7	2950.4	13029.1	13318.0	12290.0	9150.6
80°	356.8	371.7	416.3	603.2	1249.0	2130.5	2283.4	7988.7	8315.8	5463.1	2907.9
82.5°	157.2	167.8	227.3	350.5	728.6	1811.8	1782.1	3156.4	3109.7	1523.0	1008.9
85°	27.6	34.0	48.9	110.5	267.6	955.8	1382.8	1393.4	1310.6	577.8	418.4
87.5°	0.0	0.0	0.0	0.0	0.0	6.4	208.2	373.8	371.7	163.6	144.4
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°	6433.9	6433.9	6433.9	6433.9	6433.9	6433.9	6433.9	6433.9	6433.9	6433.9	6433.9
2.5°	6465.7	6408.4	6459.3	6465.7	6455.1	6446.6	6382.9	6327.6	6321.3	6261.8	6261.8
5°	6489.1	6436.0	6461.5	6412.6	6336.1	6257.6	6121.6	6028.2	5985.7	5909.2	5909.2
7.5°	6520.9	6465.7	6436.0	6314.9	6136.5	5964.4	5745.7	5563.0	5488.6	5380.3	5376.1
10°	6550.7	6480.6	6378.6	6142.9	5858.2	5584.2	5265.6	5006.5	4830.2	4700.6	4700.6
12.5°	6548.6	6457.2	6255.4	5907.1	5514.1	5116.9	4692.1	4301.3	4067.6	3865.8	3853.1
15°	6544.3	6419.0	6098.2	5633.1	5112.7	4562.5	3984.8	3475.0	3128.8	2931.2	2914.2
17.5°	6540.1	6370.1	5921.9	5320.8	4624.1	3874.3	3111.8	2559.5	2270.6	2149.6	2153.8
20°	6540.1	6314.9	5732.9	4961.9	4061.3	3050.2	2283.4	1881.9	1809.7	1816.1	1822.5
22.5°	6520.9	6246.9	5522.6	4571.0	3434.6	2243.0	1684.4	1548.5	1586.7	1646.2	1654.7
25°	6476.3	6134.4	5278.4	4137.7	2689.1	1633.4	1374.3	1348.8	1418.9	1493.2	1514.5
27.5°	6406.2	6004.8	5004.3	3630.1	1979.6	1312.7	1208.6	1206.5	1261.7	1316.9	1336.0
30°	6331.9	5860.4	4715.5	3065.1	1433.8	1142.8	1102.4	1102.4	1130.0	1164.0	1159.8
32.5°	6244.8	5713.8	4405.4	2476.7	1168.2	1047.2	1034.4	1028.1	1032.3	1045.0	1045.0
35°	6170.5	5584.2	4086.7	1854.3	1047.2	994.1	981.3	966.5	960.1	951.6	955.8
37.5°	6142.9	5482.3	3757.5	1397.6	987.7	955.8	934.6	913.4	898.5	894.2	892.1
40°	6187.5	5439.8	3428.3	1151.3	945.2	915.5	892.1	864.5	851.8	851.8	851.8
42.5°	6361.6	5471.6	3092.7	1040.8	915.5	881.5	847.5	822.0	817.8	822.0	824.1
45°	6680.2	5594.8	2744.3	985.6	890.0	847.5	807.2	788.0	788.0	792.3	792.3
47.5°	7249.5	5917.7	2400.2	951.6	864.5	819.9	777.4	758.3	756.2	760.4	760.4
50°	8235.1	6499.7	2090.1	928.2	845.4	798.7	756.2	730.7	724.3	722.2	722.2
52.5°	9477.7	7508.6	1892.6	911.2	822.0	775.3	732.8	698.8	686.1	679.7	679.7
55°	10979.4	8853.2	1892.6	898.5	792.3	747.7	698.8	664.8	645.7	637.2	637.2
57.5°	12680.8	10418.6	2219.7	887.9	768.9	715.8	662.7	628.7	607.5	594.7	594.7
60°	14411.9	12073.3	3028.9	873.0	747.7	675.5	622.4	590.5	562.9	548.0	545.9
62.5°	16206.8	13895.8	4095.2	881.5	732.8	637.2	579.9	543.8	520.4	505.5	503.4
65°	17850.8	15631.1	5027.7	947.3	734.9	603.2	531.0	499.2	480.0	460.9	458.8
67.5°	19246.3	16589.1	4373.5	1081.2	779.5	562.9	482.2	450.3	433.3	420.6	418.4
70°	18269.3	15127.7	2480.9	1164.0	841.1	520.4	426.9	405.7	388.7	380.2	378.1
72.5°	15622.6	12808.2	1658.9	1028.1	766.8	465.2	376.0	359.0	346.2	335.6	333.5
75°	12655.3	10157.4	1268.1	843.3	596.9	378.1	322.9	310.1	297.4	286.8	284.6
77.5°	7487.4	5868.8	934.6	667.0	420.6	295.2	267.6	257.0	244.3	235.8	233.6
80°	2389.6	2039.1	592.6	458.8	278.3	227.3	206.0	197.5	184.8	174.2	172.1
82.5°	911.2	788.0	314.4	233.6	184.8	155.1	138.1	129.6	121.1	110.5	108.3
85°	403.6	378.1	174.2	125.3	99.8	76.5	68.0	63.7	53.1	44.6	42.5
87.5°	142.3	142.3	74.3	36.1	21.2	10.6	6.4	2.1	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)