

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: P638742

Luminaire Tested: GWS-SA4F-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29993.9 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

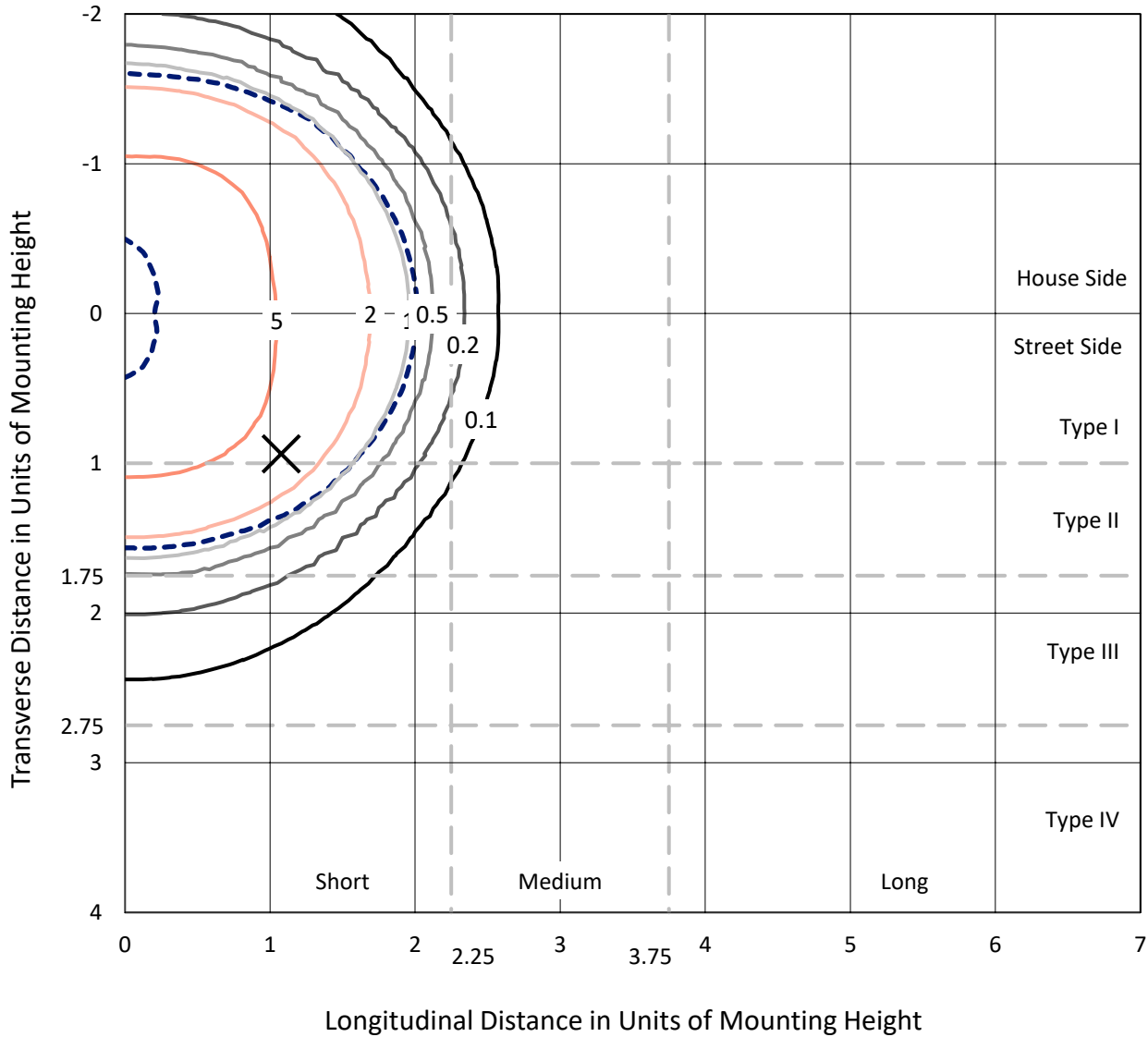
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

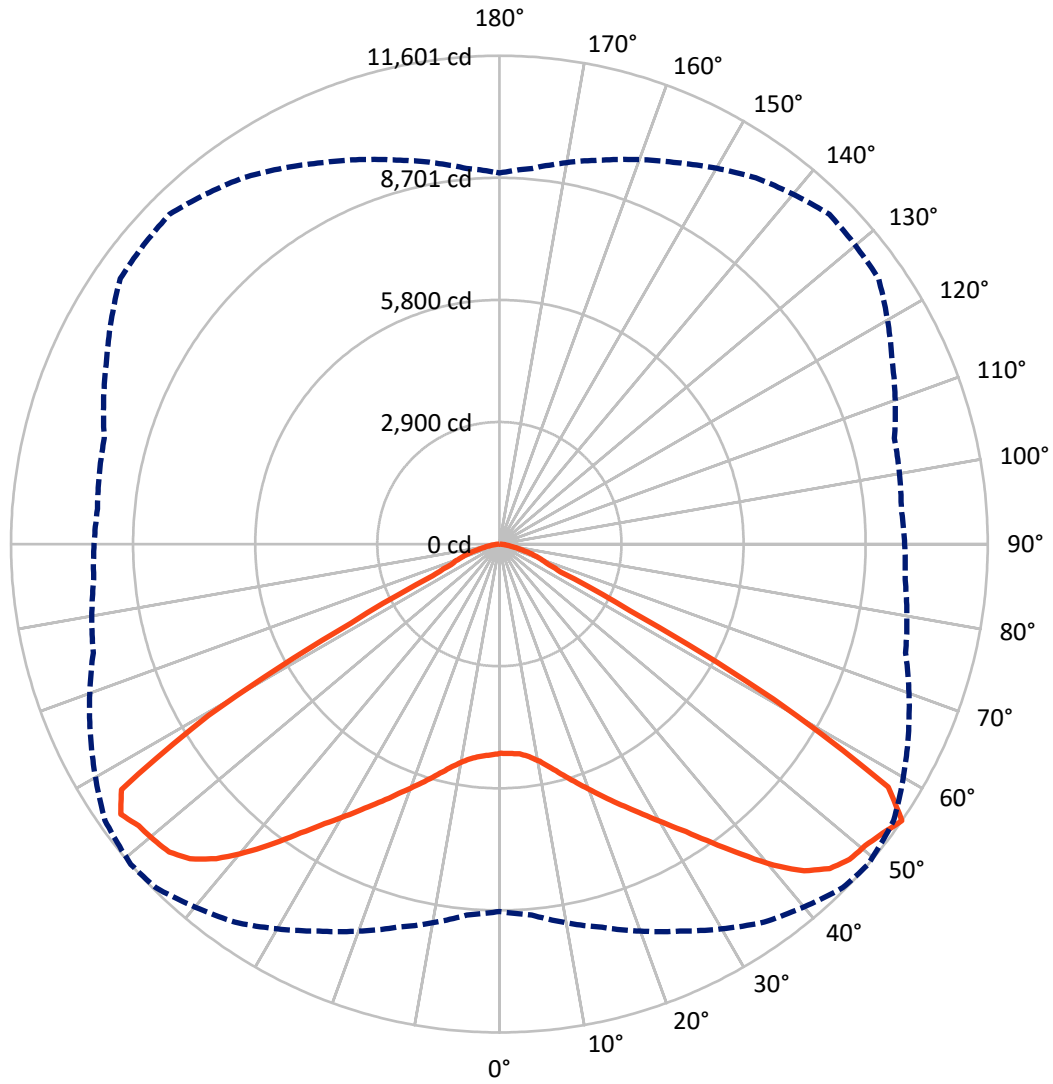
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14849.8	0.0	14849.8
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	15144.1	0.0	15144.1
	% Fixture	50.5	0.0	50.5
Total	Lumens	29993.9	0.0	29993.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.7	1.6
10°-20°	1598.7	5.3
20°-30°	3045.1	10.2
30°-40°	5162.1	17.2
40°-50°	7768.6	25.9
50°-60°	8503.5	28.4
60°-70°	2688.9	9.0
70°-80°	645.3	2.2
80°-90°	96.8	0.3
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°	29993.9	100.0
0°-180°	29993.9	100.0

Coefficient of Utilization



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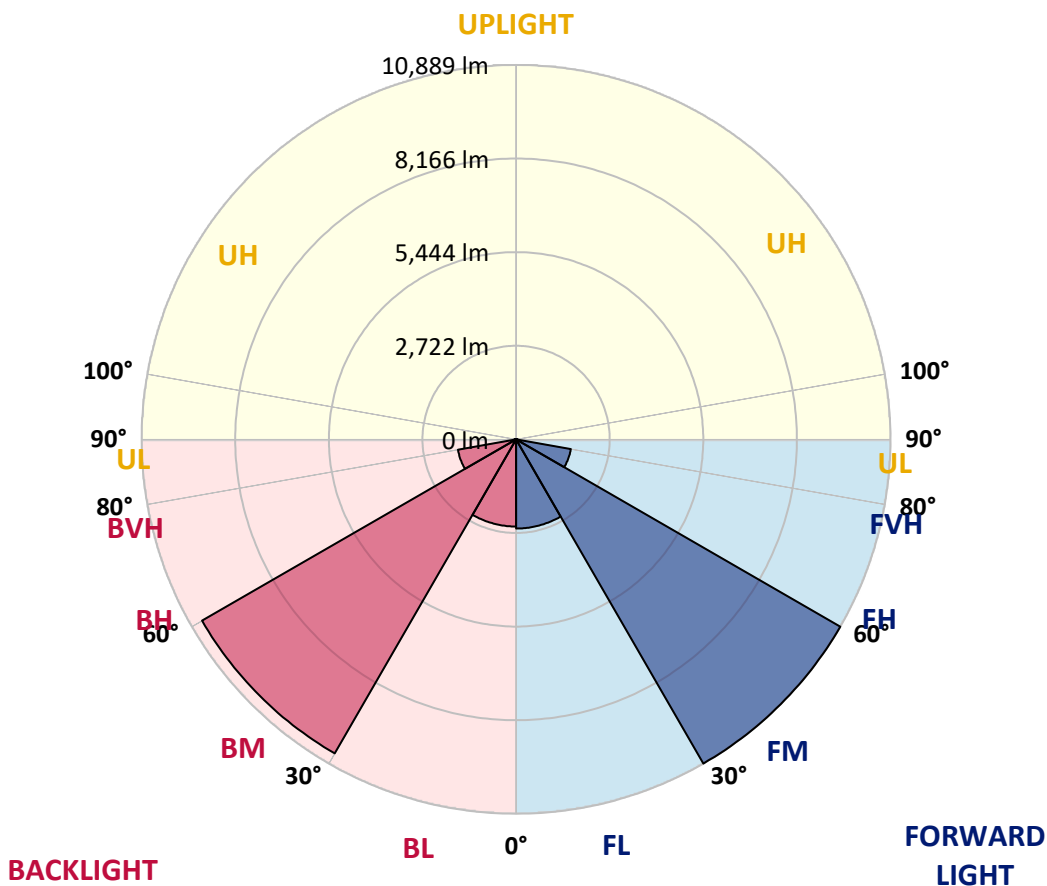
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2593.2	8.6			
FM (30°-60°)	10888.6	36.3			
FH (60°-80°)	1617.4	5.4			G1/1800
FVH (80°-90°)	44.8	0.1			G1/100
BL (0°-30°)	2535.3	8.5	B4/5000		
BM (30°-60°)	10545.7	35.2	B5		
BH (60°-80°)	1716.8	5.7	B3/2500		G1/1800
BVH (80°-90°)	52.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	4968.7	4968.7	4968.7	4968.7	4968.7	4968.7	4968.7	4968.7	4968.7	4968.7	4968.7
2.5°	4895.5	4900.4	4910.1	4927.2	4944.3	4968.7	4978.4	4990.6	4988.2	5002.8	5002.8
5°	4871.1	4878.4	4893.1	4917.4	4946.7	4993.1	5005.3	5034.5	5063.8	5100.4	5112.6
7.5°	4900.4	4910.1	4927.2	4966.2	5010.1	5071.1	5095.5	5144.3	5200.4	5266.3	5293.1
10°	4956.5	4968.7	4997.9	5061.4	5132.1	5224.8	5246.7	5307.7	5398.0	5488.2	5541.9
12.5°	5019.9	5039.4	5093.1	5193.1	5298.0	5419.9	5454.1	5529.7	5627.3	5744.3	5817.5
15°	5093.1	5110.1	5193.1	5334.6	5498.0	5659.0	5698.0	5771.2	5880.9	5995.6	6098.0
17.5°	5246.7	5276.0	5373.6	5537.0	5727.3	5917.5	5961.4	6044.4	6132.2	6222.4	6320.0
20°	5456.5	5480.9	5605.3	5807.8	6032.2	6205.4	6249.3	6322.4	6363.9	6410.2	6493.2
22.5°	5666.3	5700.4	5841.9	6081.0	6344.4	6532.2	6566.4	6634.7	6605.4	6590.7	6644.4
25°	5927.3	5973.6	6112.7	6373.7	6642.0	6873.7	6900.5	6959.1	6910.3	6834.7	6832.2
27.5°	6251.7	6293.2	6437.1	6705.4	6971.3	7212.7	7264.0	7342.0	7234.7	7142.0	7076.1
30°	6637.1	6663.9	6822.5	7107.9	7381.1	7610.3	7676.2	7754.2	7673.8	7520.1	7454.2
32.5°	7085.9	7122.5	7305.4	7605.5	7849.4	8078.7	8144.5	8242.1	8154.3	7981.1	7898.2
35°	7625.0	7661.6	7854.3	8181.1	8429.9	8666.5	8712.9	8793.4	8683.6	8483.6	8417.7
37.5°	8210.4	8256.7	8500.6	8810.4	9071.4	9347.1	9349.5	9373.9	9217.8	8969.0	8895.8
40°	8869.0	8929.9	9173.9	9495.8	9810.5	10034.9	10032.5	9964.2	9700.7	9315.3	9203.1
42.5°	9520.2	9569.0	9815.4	10147.1	10461.8	10674.0	10610.6	10444.7	10064.2	9539.8	9391.0
45°	9991.0	10027.6	10286.1	10659.3	10978.9	11110.6	10996.0	10795.9	10281.3	9681.2	9461.7
47.5°	10213.0	10261.8	10522.8	10893.5	11254.5	11330.1	11193.5	11005.7	10408.1	9812.9	9517.8
50°	10093.5	10156.9	10452.0	10795.9	11203.3	11359.4	11261.8	11074.0	10542.3	9942.2	9617.8
52.5°	9783.7	9844.7	10217.9	10635.0	11096.0	11405.7	11403.3	11249.6	10695.9	9978.8	9622.7
55°	8725.1	8844.6	9425.1	10144.7	10964.3	11542.3	11600.9	11437.5	10720.3	9988.6	9673.9
57.5°	5678.5	5888.3	6439.5	7376.2	9020.2	10498.4	10893.5	10932.5	10544.7	9947.1	9683.7
60°	2370.9	2539.2	2975.8	3597.8	4956.5	6715.1	7481.1	8249.4	9176.3	9512.9	9593.4
62.5°	1473.3	1487.9	1531.8	1673.3	2127.0	2985.6	3478.3	4197.9	5576.0	6749.3	7290.8
65°	1329.4	1336.7	1346.4	1336.7	1358.6	1463.5	1595.2	1846.5	2407.5	2990.5	3683.2
67.5°	1170.8	1180.6	1187.9	1180.6	1187.9	1192.8	1207.4	1229.4	1331.8	1414.7	1478.2
70°	946.4	961.0	973.2	968.4	997.6	997.6	1012.3	1029.3	1080.6	1141.6	1185.5
72.5°	722.0	709.8	724.4	729.3	756.2	770.8	792.7	812.3	870.8	907.4	963.5
75°	468.3	456.1	478.1	490.3	526.9	546.4	565.9	585.4	626.9	651.3	704.9
77.5°	253.7	251.2	273.2	290.3	329.3	353.7	368.3	383.0	417.1	424.4	458.6
80°	146.4	146.4	161.0	173.2	197.6	224.4	239.0	251.2	275.6	282.9	297.6
82.5°	80.5	80.5	87.8	95.1	114.6	129.3	141.5	151.2	173.2	180.5	187.8
85°	39.0	36.6	41.5	46.3	53.7	61.0	68.3	73.2	90.3	95.1	104.9
87.5°	4.9	4.9	4.9	7.3	9.8	14.6	17.1	17.1	26.8	31.7	36.6
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°	4968.7	4968.7	4968.7	4968.7	4968.7	4968.7	4968.7	4968.7	4968.7	4968.7	4968.7
2.5°	5017.5	4985.7	5005.3	5012.6	5012.6	5005.3	4973.5	4963.8	4949.2	4927.2	4927.2
5°	5129.7	5105.3	5110.1	5097.9	5068.7	5032.1	4973.5	4944.3	4919.9	4893.1	4890.6
7.5°	5322.4	5290.6	5285.8	5239.4	5161.4	5083.3	4995.5	4941.8	4905.3	4871.1	4868.7
10°	5573.6	5544.3	5507.7	5415.0	5300.4	5185.8	5066.2	4993.1	4939.4	4890.6	4888.2
12.5°	5854.1	5820.0	5751.7	5615.1	5471.1	5358.9	5222.3	5110.1	5029.7	4963.8	4951.6
15°	6159.0	6110.2	5993.1	5832.2	5690.7	5571.2	5424.8	5263.8	5141.9	5037.0	5024.8
17.5°	6393.2	6329.8	6202.9	6051.7	5934.6	5815.1	5624.8	5422.4	5246.7	5115.0	5095.5
20°	6554.2	6502.9	6359.0	6246.8	6178.5	6073.6	5851.7	5622.4	5424.8	5258.9	5249.2
22.5°	6702.9	6642.0	6500.5	6434.6	6434.6	6363.9	6151.7	5880.9	5649.2	5456.5	5432.1
25°	6871.3	6805.4	6698.1	6690.8	6724.9	6693.2	6437.1	6146.8	5876.1	5659.0	5619.9
27.5°	7105.4	7032.2	6968.8	7012.7	7061.5	7027.4	6742.0	6405.4	6120.0	5900.4	5866.3
30°	7478.6	7388.4	7329.8	7383.5	7478.6	7378.6	7068.8	6712.7	6424.9	6183.4	6166.3
32.5°	7912.8	7810.4	7749.4	7834.7	7920.1	7764.0	7456.7	7115.2	6812.7	6559.0	6529.8
35°	8434.8	8305.5	8215.3	8329.9	8417.7	8264.0	7959.1	7634.7	7298.1	7034.7	6995.7
37.5°	8898.2	8742.1	8681.1	8842.1	8959.2	8859.2	8527.5	8222.6	7854.3	7566.4	7549.4
40°	9234.9	9081.2	9037.3	9303.1	9508.0	9483.6	9186.1	8837.3	8490.9	8159.2	8127.4
42.5°	9381.2	9273.9	9283.6	9642.2	9959.3	10115.4	9849.5	9476.3	9142.2	8798.2	8776.3
45°	9412.9	9347.1	9425.1	9873.9	10291.0	10610.6	10383.7	10071.5	9693.4	9361.7	9351.9
47.5°	9447.1	9410.5	9530.0	10005.6	10500.8	10871.6	10744.7	10422.7	10039.8	9715.4	9691.0
50°	9527.6	9512.9	9647.1	10098.3	10600.8	10942.3	10798.4	10478.8	10086.1	9766.6	9708.1
52.5°	9551.9	9527.6	9720.3	10242.2	10766.7	10939.9	10630.1	10213.0	9817.8	9461.7	9400.7
55°	9627.6	9583.7	9715.4	10295.9	10996.0	11081.3	10620.3	9995.9	9444.6	8959.2	8815.3
57.5°	9647.1	9598.3	9683.7	10208.1	10747.2	10671.5	9334.9	8066.5	7027.4	6488.3	6549.3
60°	9542.2	9556.8	9410.5	9351.9	8620.2	7610.3	5715.1	4568.6	3588.1	3173.4	3263.7
62.5°	7264.0	7324.9	6824.9	5934.6	4563.8	3617.3	2392.9	1858.7	1573.3	1500.1	1512.3
65°	3666.1	3749.1	3229.5	2670.9	1985.5	1605.0	1387.9	1344.0	1329.4	1312.3	1312.3
67.5°	1451.3	1475.7	1456.2	1363.5	1268.4	1234.2	1224.5	1219.6	1202.5	1192.8	1195.2
70°	1165.9	1185.5	1156.2	1097.6	1058.6	1056.2	1051.3	1041.5	1029.3	1029.3	1036.7
72.5°	951.3	970.8	929.3	892.8	863.5	841.5	829.3	822.0	804.9	804.9	812.3
75°	700.1	712.2	678.1	673.2	641.5	619.6	600.0	590.3	568.3	558.6	565.9
77.5°	465.9	463.4	446.4	446.4	434.2	407.3	385.4	363.4	334.2	314.7	319.5
80°	302.5	302.5	295.1	295.1	282.9	261.0	234.2	212.2	195.1	180.5	180.5
82.5°	192.7	190.3	187.8	185.4	180.5	158.5	139.0	124.4	112.2	102.4	104.9
85°	107.3	107.3	102.4	102.4	92.7	80.5	70.7	61.0	53.7	51.2	51.2
87.5°	36.6	36.6	34.1	34.1	29.3	22.0	17.1	14.6	12.2	9.8	12.2
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)