

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: P638687

Luminaire Tested: GWS-SA4F-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638687
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29582.8 lumens
Efficiency: N/A
Efficacy: 131.3 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

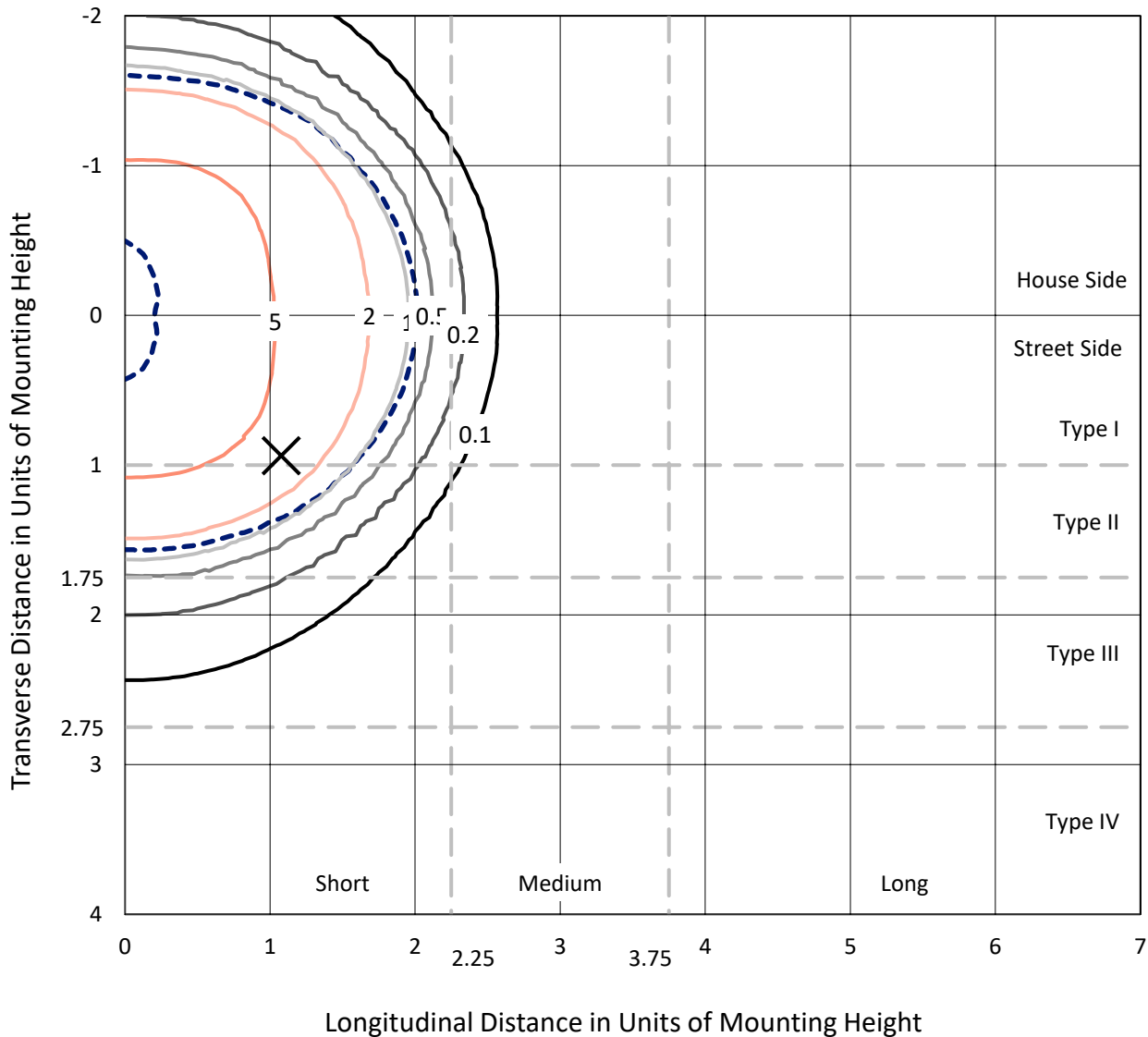


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Iso-Footcandle Lines of Horizontal Illumination

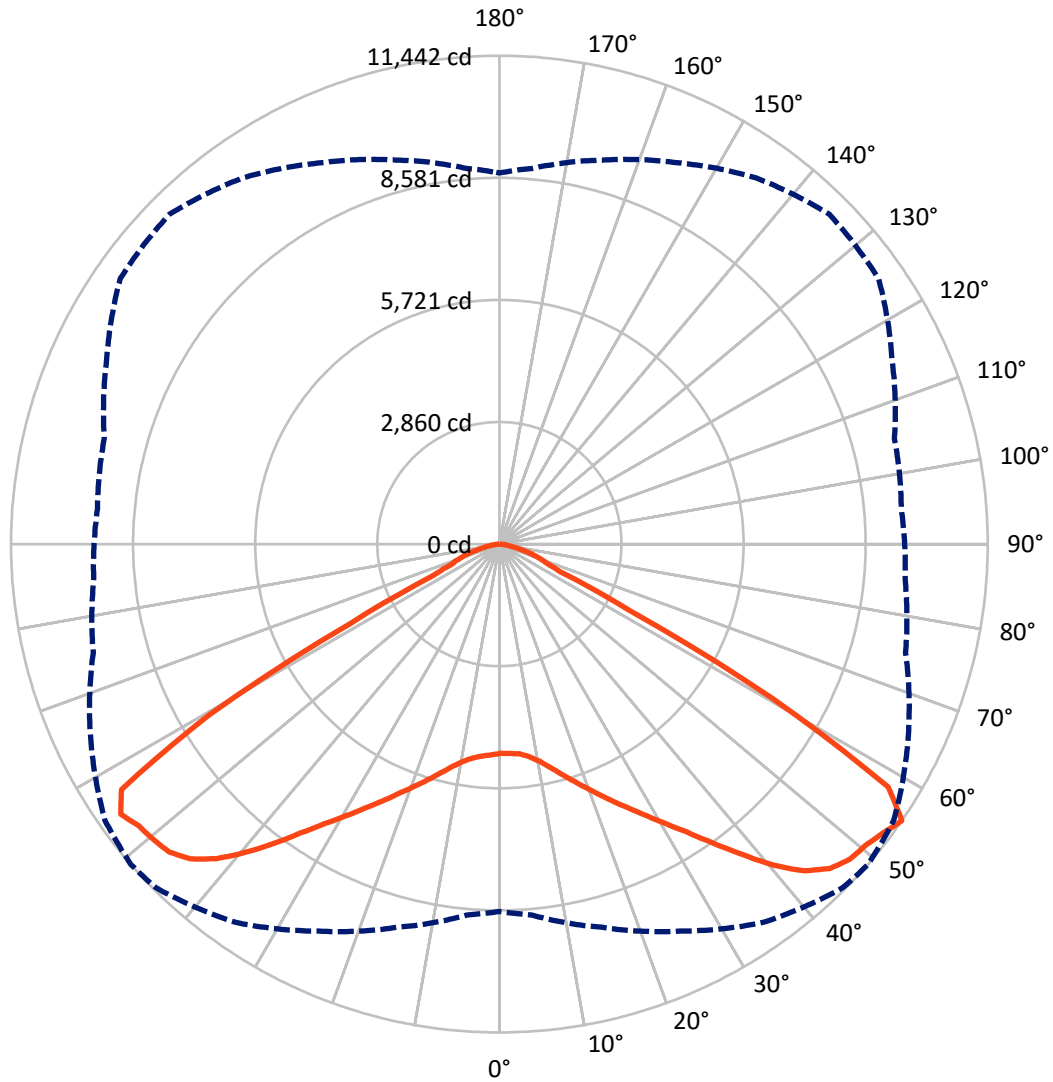
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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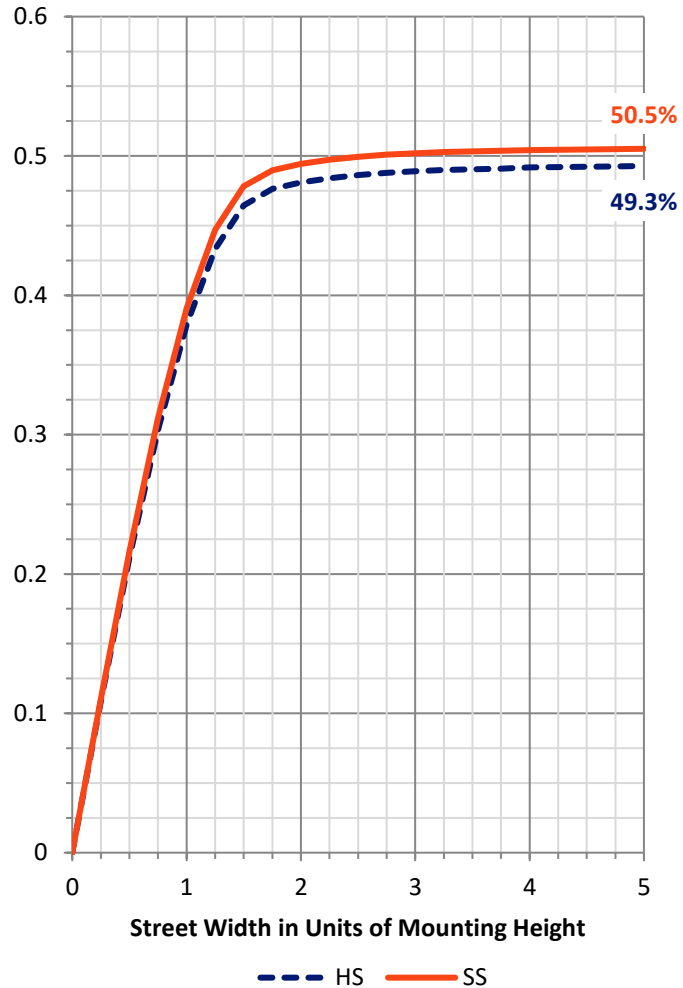
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14646.3	0.0	14646.3
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	14936.5	0.0	14936.5
	% Fixture	50.5	0.0	50.5
Total	Lumens	29582.8	0.0	29582.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.0	1.6
10°-20°	1576.8	5.3
20°-30°	3003.4	10.2
30°-40°	5091.4	17.2
40°-50°	7662.2	25.9
50°-60°	8387.0	28.4
60°-70°	2652.0	9.0
70°-80°	636.5	2.2
80°-90°	95.5	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°	29582.8	100.0
0°-180°	29582.8	100.0

Coefficient of Utilization



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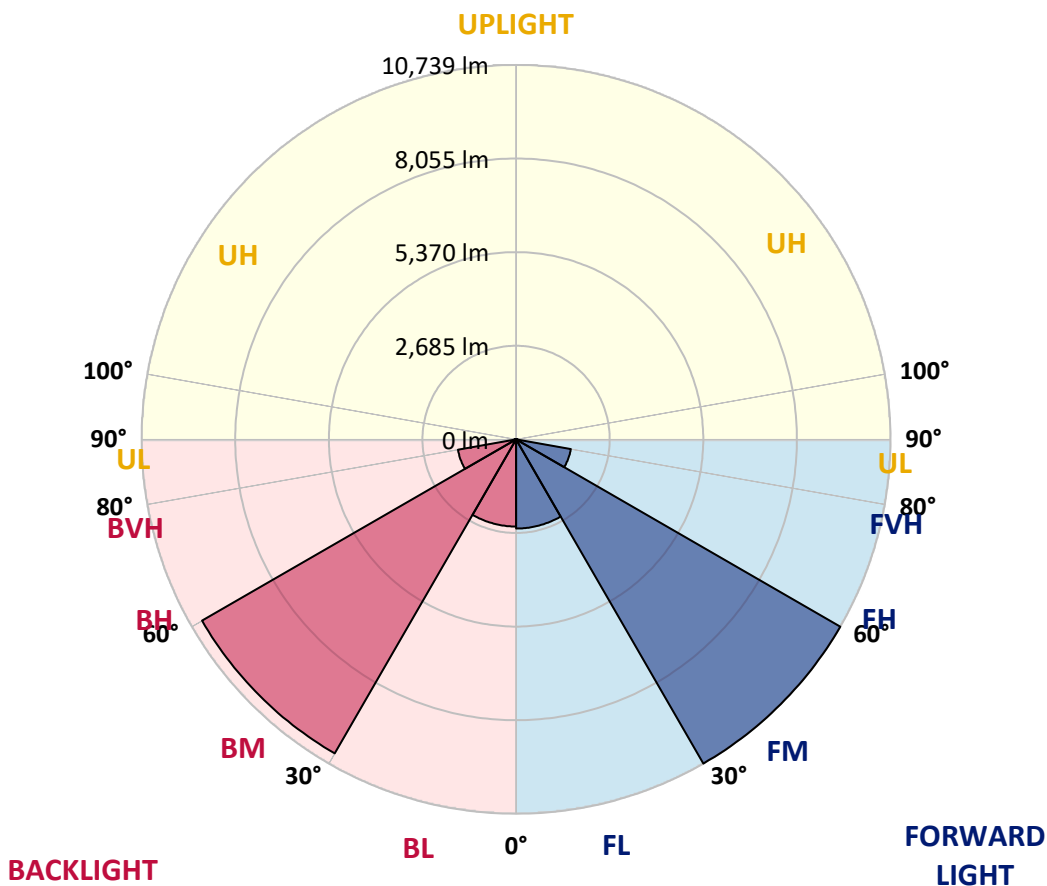
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2557.7	8.6			
FM (30°-60°)	10739.4	36.3			
FH (60°-80°)	1595.2	5.4			G1/1800
FVH (80°-90°)	44.2	0.1			G1/100
BL (0°-30°)	2500.6	8.5	B4/5000		
BM (30°-60°)	10401.2	35.2	B5		
BH (60°-80°)	1693.3	5.7	B3/2500		G1/1800
BVH (80°-90°)	51.3	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°	4900.6	4900.6	4900.6	4900.6	4900.6	4900.6	4900.6	4900.6	4900.6	4900.6	4900.6
2.5°	4828.4	4833.2	4842.8	4859.7	4876.5	4900.6	4910.2	4922.2	4919.8	4934.3	4934.3
5°	4804.3	4811.6	4826.0	4850.0	4878.9	4924.6	4936.7	4965.5	4994.4	5030.5	5042.5
7.5°	4833.2	4842.8	4859.7	4898.2	4941.5	5001.6	5025.7	5073.8	5129.1	5194.1	5220.5
10°	4888.5	4900.6	4929.4	4992.0	5061.8	5153.2	5174.8	5235.0	5324.0	5413.0	5465.9
12.5°	4951.1	4970.3	5023.3	5121.9	5225.4	5345.6	5379.3	5453.9	5550.1	5665.6	5737.8
15°	5023.3	5040.1	5121.9	5261.4	5422.6	5581.4	5619.9	5692.1	5800.3	5913.4	6014.4
17.5°	5174.8	5203.7	5299.9	5461.1	5648.8	5836.4	5879.7	5961.5	6048.1	6137.1	6233.4
20°	5381.7	5405.8	5528.5	5728.2	5949.5	6120.3	6163.6	6235.8	6276.7	6322.4	6404.2
22.5°	5588.6	5622.3	5761.8	5997.6	6257.4	6442.7	6476.4	6543.7	6514.8	6500.4	6553.3
25°	5846.0	5891.8	6028.9	6286.3	6550.9	6779.5	6805.9	6863.7	6815.6	6741.0	6738.6
27.5°	6166.0	6206.9	6348.8	6613.5	6875.7	7113.9	7164.4	7241.4	7135.5	7044.1	6979.2
30°	6546.1	6572.6	6729.0	7010.4	7279.9	7506.0	7571.0	7648.0	7568.6	7417.0	7352.1
32.5°	6988.8	7024.9	7205.3	7501.2	7741.8	7967.9	8032.9	8129.1	8042.5	7871.7	7789.9
35°	7520.5	7556.5	7746.6	8069.0	8314.4	8547.7	8593.4	8672.8	8564.6	8367.3	8302.3
37.5°	8097.8	8143.6	8384.1	8689.7	8947.1	9218.9	9221.3	9245.4	9091.4	8846.0	8773.9
40°	8747.4	8807.6	9048.1	9365.7	9676.0	9897.4	9895.0	9827.6	9567.8	9187.7	9077.0
42.5°	9389.8	9437.9	9680.9	10008.0	10318.4	10527.7	10465.1	10301.5	9926.2	9409.0	9262.2
45°	9854.1	9890.2	10145.2	10513.3	10828.4	10958.3	10845.2	10648.0	10140.4	9548.5	9332.0
47.5°	10073.0	10121.1	10378.5	10744.2	11100.3	11174.8	11040.1	10854.9	10265.5	9678.4	9387.3
50°	9955.1	10017.7	10308.8	10648.0	11049.7	11203.7	11107.5	10922.2	10397.8	9806.0	9486.0
52.5°	9649.6	9709.7	10077.8	10489.2	10943.9	11249.4	11247.0	11095.4	10549.3	9842.0	9490.8
55°	8605.5	8723.4	9295.9	10005.6	10814.0	11384.1	11441.9	11280.7	10573.4	9851.7	9541.3
57.5°	5600.7	5807.5	6351.3	7275.1	8896.6	10354.5	10744.2	10782.7	10400.2	9810.8	9550.9
60°	2338.4	2504.4	2935.0	3548.5	4888.5	6623.1	7378.5	8136.3	9050.5	9382.5	9461.9
62.5°	1453.1	1467.5	1510.8	1650.4	2097.8	2944.7	3430.6	4140.3	5499.6	6656.8	7190.9
65°	1311.1	1318.4	1328.0	1318.4	1340.0	1443.5	1573.4	1821.2	2374.5	2949.5	3632.7
67.5°	1154.8	1164.4	1171.6	1164.4	1171.6	1176.4	1190.9	1212.5	1313.6	1395.4	1457.9
70°	933.4	947.9	959.9	955.1	984.0	984.0	998.4	1015.2	1065.8	1125.9	1169.2
72.5°	712.1	700.1	714.5	719.3	745.8	760.2	781.9	801.1	858.9	894.9	950.3
75°	461.9	449.9	471.5	483.6	519.6	538.9	558.1	577.4	618.3	642.3	695.3
77.5°	250.2	247.8	269.4	286.3	324.8	348.8	363.3	377.7	411.4	418.6	452.3
80°	144.3	144.3	158.8	170.8	194.9	221.3	235.8	247.8	271.9	279.1	293.5
82.5°	79.4	79.4	86.6	93.8	113.1	127.5	139.5	149.2	170.8	178.0	185.2
85°	38.5	36.1	40.9	45.7	52.9	60.1	67.4	72.2	89.0	93.8	103.4
87.5°	4.8	4.8	4.8	7.2	9.6	14.4	16.8	16.8	26.5	31.3	36.1
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°	4900.6	4900.6	4900.6	4900.6	4900.6	4900.6	4900.6	4900.6	4900.6	4900.6	4900.6
2.5°	4948.7	4917.4	4936.7	4943.9	4943.9	4936.7	4905.4	4895.8	4881.3	4859.7	4859.7
5°	5059.4	5035.3	5040.1	5028.1	4999.2	4963.1	4905.4	4876.5	4852.5	4826.0	4823.6
7.5°	5249.4	5218.1	5213.3	5167.6	5090.6	5013.6	4927.0	4874.1	4838.0	4804.3	4801.9
10°	5497.2	5468.3	5432.2	5340.8	5227.8	5114.7	4996.8	4924.6	4871.7	4823.6	4821.2
12.5°	5773.9	5740.2	5672.8	5538.1	5396.2	5285.5	5150.8	5040.1	4960.7	4895.8	4883.7
15°	6074.6	6026.5	5911.0	5752.2	5612.7	5494.8	5350.5	5191.7	5071.4	4967.9	4955.9
17.5°	6305.5	6243.0	6117.9	5968.7	5853.3	5735.4	5547.7	5348.0	5174.8	5044.9	5025.7
20°	6464.3	6413.8	6271.9	6161.2	6093.8	5990.4	5771.5	5545.3	5350.5	5186.9	5177.2
22.5°	6611.1	6550.9	6411.4	6346.4	6346.4	6276.7	6067.4	5800.3	5571.8	5381.7	5357.7
25°	6777.1	6712.1	6606.3	6599.0	6632.7	6601.5	6348.8	6062.6	5795.5	5581.4	5542.9
27.5°	7008.0	6935.9	6873.3	6916.6	6964.7	6931.0	6649.6	6317.6	6036.1	5819.6	5785.9
30°	7376.1	7287.1	7229.4	7282.3	7376.1	7277.5	6971.9	6620.7	6336.8	6098.6	6081.8
32.5°	7804.3	7703.3	7643.2	7727.4	7811.6	7657.6	7354.5	7017.7	6719.3	6469.1	6440.3
35°	8319.2	8191.7	8102.7	8215.7	8302.3	8150.8	7850.1	7530.1	7198.1	6938.3	6899.8
37.5°	8776.3	8622.3	8562.2	8720.9	8836.4	8737.8	8410.6	8109.9	7746.6	7462.7	7445.9
40°	9108.3	8956.7	8913.4	9175.6	9377.7	9353.7	9060.2	8716.1	8374.5	8047.3	8016.1
42.5°	9252.6	9146.8	9156.4	9510.0	9822.8	9976.8	9714.5	9346.4	9016.9	8677.6	8656.0
45°	9283.9	9218.9	9295.9	9738.6	10150.0	10465.1	10241.4	9933.5	9560.6	9233.4	9223.8
47.5°	9317.6	9281.5	9399.4	9868.5	10356.9	10722.6	10597.5	10279.9	9902.2	9582.2	9558.2
50°	9397.0	9382.5	9514.9	9959.9	10455.5	10792.3	10650.4	10335.2	9947.9	9632.7	9575.0
52.5°	9421.0	9397.0	9587.0	10101.9	10619.1	10789.9	10484.4	10073.0	9683.3	9332.0	9271.9
55°	9495.6	9452.3	9582.2	10154.8	10845.2	10929.5	10474.8	9858.9	9315.2	8836.4	8694.5
57.5°	9514.9	9466.7	9550.9	10068.2	10599.9	10525.3	9206.9	7955.9	6931.0	6399.4	6459.5
60°	9411.4	9425.8	9281.5	9223.8	8502.0	7506.0	5636.7	4506.0	3538.9	3129.9	3218.9
62.5°	7164.4	7224.6	6731.4	5853.3	4501.2	3567.8	2360.1	1833.2	1551.7	1479.6	1491.6
65°	3615.9	3697.7	3185.3	2634.3	1958.3	1583.0	1368.9	1325.6	1311.1	1294.3	1294.3
67.5°	1431.4	1455.5	1436.2	1344.8	1251.0	1217.3	1207.7	1202.9	1186.0	1176.4	1178.8
70°	1150.0	1169.2	1140.3	1082.6	1044.1	1041.7	1036.9	1027.3	1015.2	1015.2	1022.5
72.5°	938.3	957.5	916.6	880.5	851.6	830.0	818.0	810.7	793.9	793.9	801.1
75°	690.5	702.5	668.8	664.0	632.7	611.1	591.8	582.2	560.5	550.9	558.1
77.5°	459.5	457.1	440.3	440.3	428.2	401.8	380.1	358.5	329.6	310.3	315.2
80°	298.3	298.3	291.1	291.1	279.1	257.4	231.0	209.3	192.5	178.0	178.0
82.5°	190.1	187.7	185.2	182.8	178.0	156.4	137.1	122.7	110.7	101.0	103.4
85°	105.9	105.9	101.0	101.0	91.4	79.4	69.8	60.1	52.9	50.5	50.5
87.5°	36.1	36.1	33.7	33.7	28.9	21.7	16.8	14.4	12.0	9.6	12.0
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)