

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: P638772

Luminaire Tested: GWS-SA4F-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 29040.2 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

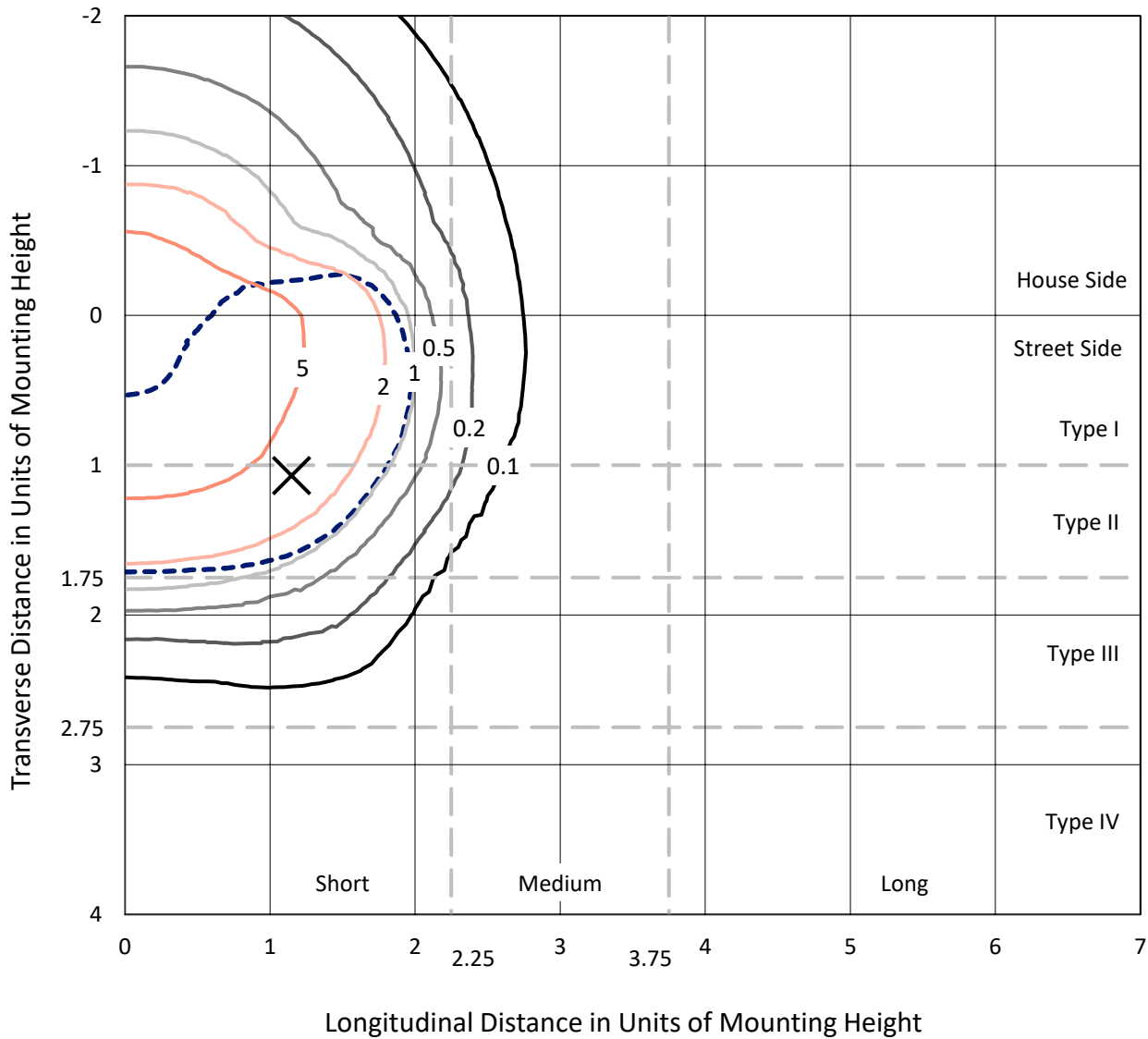
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

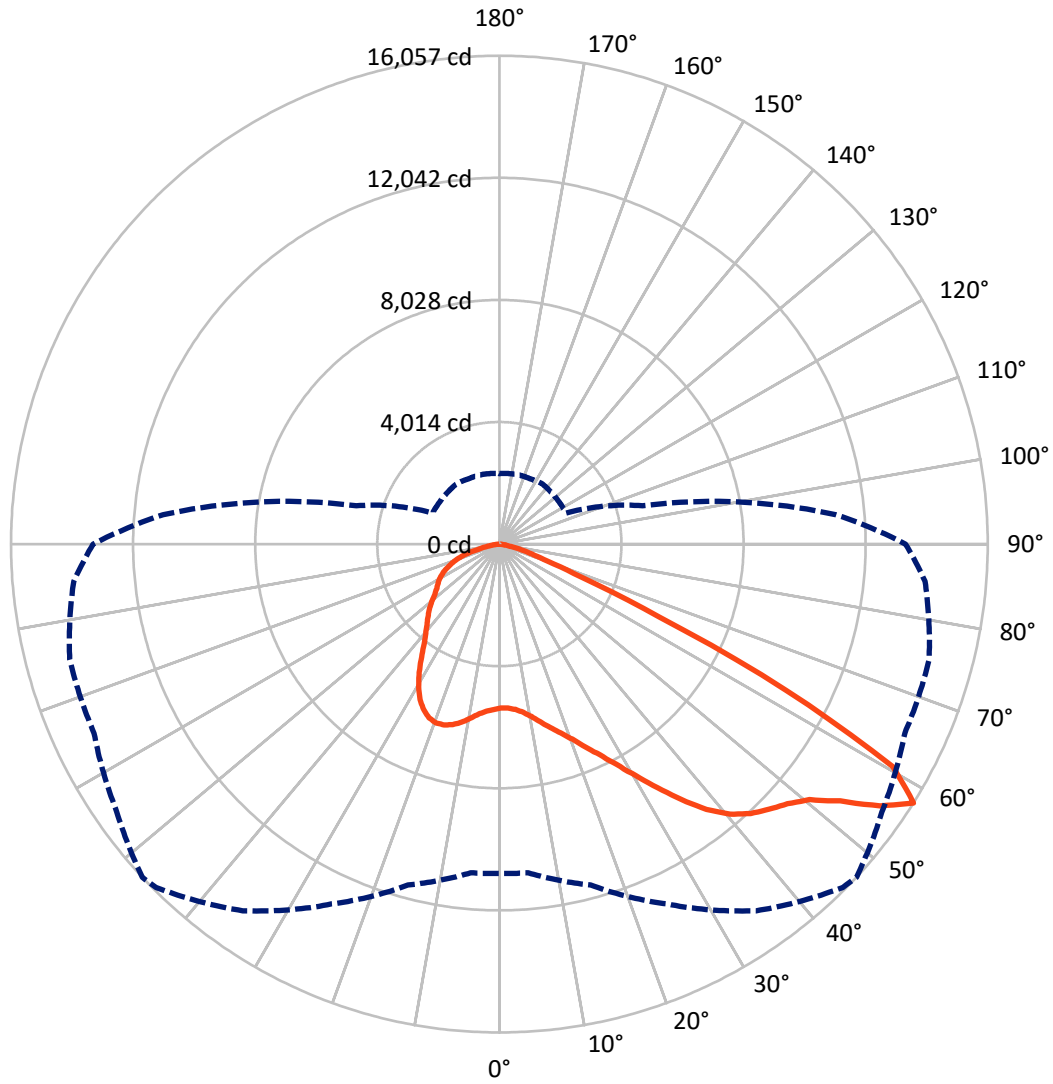
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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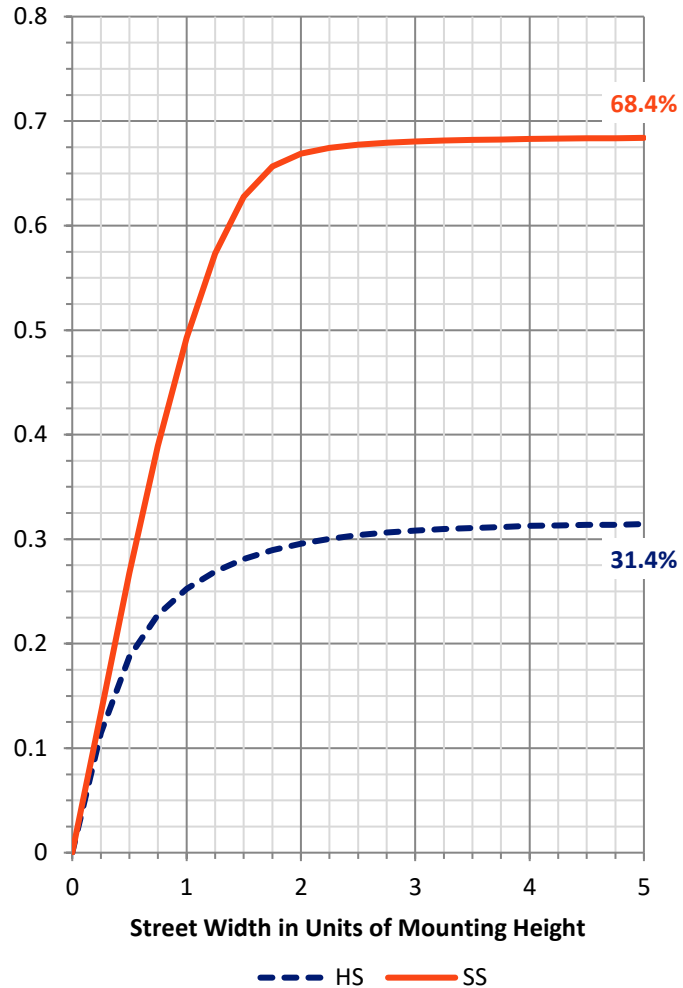
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9191.1	0.0	9191.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	19849.0	0.0	19849.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	29040.2	0.0	29040.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.2	1.8
10°-20°	1747.1	6.0
20°-30°	3145.8	10.8
30°-40°	4751.4	16.4
40°-50°	6398.4	22.0
50°-60°	7688.5	26.5
60°-70°	3744.4	12.9
70°-80°	922.5	3.2
80°-90°	110.9	0.4
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°	29040.2	100.0
0°-180°	29040.2	100.0

Coefficient of Utilization



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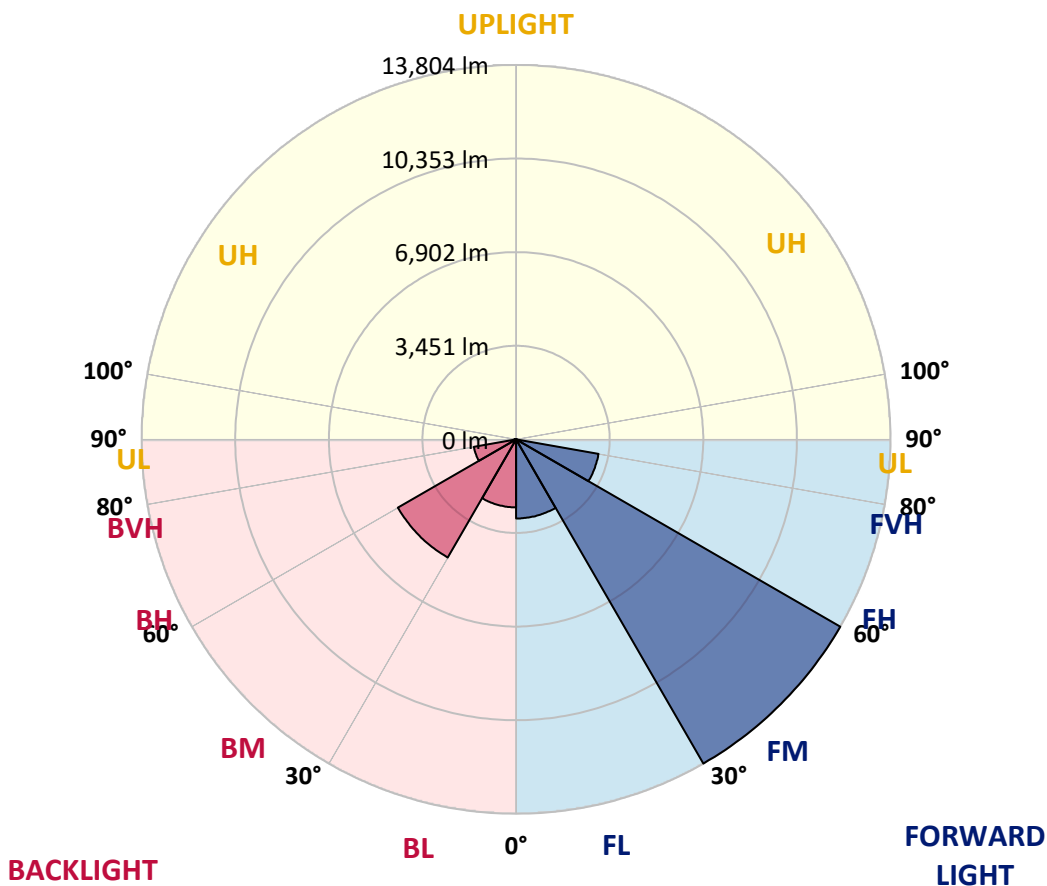
CATALOG NUMBER: GWS-SA4F-740-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2916.9	10.0			
FM (30°-60°)	13804.3	47.5			
FH (60°-80°)	3086.1	10.6			G2/5000
FVH (80°-90°)	41.7	0.1			G1/100
BL (0°-30°)	2507.2	8.6	B4/5000		
BM (30°-60°)	5034.0	17.3	B4/8500		
BH (60°-80°)	1580.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	69.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5
2.5°	5375.8	5373.4	5373.4	5388.0	5388.0	5392.9	5400.2	5407.5	5409.9	5397.7	5370.9
5°	5434.3	5434.3	5434.3	5446.5	5446.5	5451.4	5461.2	5463.6	5461.2	5441.6	5414.8
7.5°	5527.0	5527.0	5529.5	5544.1	5556.3	5563.6	5580.7	5578.2	5570.9	5539.2	5505.1
10°	5678.2	5685.6	5692.9	5709.9	5734.3	5751.4	5763.6	5763.6	5753.9	5705.1	5661.2
12.5°	5892.9	5902.6	5910.0	5924.6	5944.1	5973.4	6000.2	6000.2	5988.0	5927.0	5861.2
15°	6144.1	6153.9	6151.4	6156.3	6192.9	6234.4	6256.3	6270.9	6275.8	6190.5	6088.0
17.5°	6431.9	6441.7	6431.9	6417.3	6422.2	6488.0	6527.0	6580.7	6612.4	6497.8	6334.4
20°	6692.9	6683.2	6683.2	6692.9	6707.5	6788.0	6846.6	6934.4	6973.4	6834.4	6580.7
22.5°	6968.5	6990.5	6980.7	6980.7	7039.3	7173.4	7244.1	7358.8	7400.2	7219.8	6878.3
25°	7324.6	7344.1	7339.3	7344.1	7412.4	7602.7	7673.4	7885.6	7927.1	7668.6	7207.6
27.5°	7714.9	7746.6	7761.2	7756.4	7866.1	8114.9	8202.7	8497.8	8573.5	8171.0	7558.8
30°	8222.2	8256.4	8268.6	8263.7	8393.0	8732.0	8832.0	9168.6	9275.9	8766.1	8005.1
32.5°	8810.1	8844.2	8880.8	8895.4	9061.3	9407.6	9551.5	9900.3	10054.0	9454.0	8544.2
35°	9393.0	9422.3	9493.0	9607.6	9834.5	10188.1	10315.0	10658.9	10807.7	10168.6	9195.4
37.5°	10036.9	10056.4	10117.4	10276.0	10602.8	10939.4	11066.2	11395.5	11412.6	10858.9	9932.0
40°	10741.8	10741.8	10729.6	10885.7	11227.2	11566.2	11676.0	11866.3	11766.2	11390.6	10649.1
42.5°	11339.4	11329.6	11339.4	11485.8	11739.4	12015.0	12110.2	12073.6	11946.7	11798.0	11297.9
45°	11878.4	11885.8	11973.6	12085.8	12217.5	12380.9	12437.0	12229.7	12115.0	12124.8	11817.5
47.5°	12244.3	12251.6	12456.5	12644.3	12724.8	12776.0	12751.6	12463.8	12405.3	12515.1	12217.5
50°	12293.1	12332.1	12685.8	13071.2	13271.2	13278.5	13210.2	12859.0	12841.9	12966.3	12432.1
52.5°	12302.9	12341.9	12783.4	13478.5	13998.0	14107.8	14029.7	13663.9	13485.8	13361.4	12695.5
55°	12266.3	12310.2	12798.0	13751.7	14746.8	15185.9	15193.2	14676.1	14107.8	14024.9	13446.8
57.5°	10829.6	10846.7	11602.8	13056.5	14717.6	15961.5	16056.6	15354.2	14705.4	14627.3	14049.3
60°	7544.2	7612.5	8434.4	10354.0	12363.8	14556.6	14863.9	14659.0	14224.9	13656.6	12054.1
62.5°	3778.2	3836.7	4661.1	6475.8	8527.1	10258.9	10588.2	10805.2	10907.7	10297.9	8207.6
65°	1626.9	1670.8	2183.0	3383.0	4827.0	5663.6	5778.2	6039.2	6678.3	5958.7	4422.1
67.5°	1087.8	1117.1	1378.1	2063.5	2844.0	2897.7	2880.6	2936.7	3075.7	2539.1	1997.6
70°	834.2	858.6	1034.2	1512.2	2044.0	1748.8	1656.2	1502.5	1631.8	1663.5	1619.6
72.5°	604.9	624.4	756.1	1031.7	1280.5	1117.1	1102.5	1180.5	1356.1	1404.9	1378.1
75°	390.3	400.0	480.5	565.9	661.0	717.1	746.4	887.8	1065.9	1102.5	1070.8
77.5°	261.0	268.3	314.6	363.4	375.6	378.1	387.8	451.2	573.2	641.5	634.2
80°	136.6	136.6	153.7	153.7	175.6	209.8	219.5	261.0	317.1	351.2	353.7
82.5°	53.7	56.1	65.9	73.2	87.8	107.3	114.6	136.6	165.9	190.3	212.2
85°	22.0	24.4	26.8	31.7	39.0	48.8	51.2	58.5	78.1	97.6	109.8
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	7.3	9.8	12.2	22.0	29.3
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°	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5
2.5°	5402.6	5370.9	5402.6	5412.4	5439.2	5449.0	5431.9	5429.5	5429.5	5405.1	5397.7
5°	5439.2	5409.9	5441.6	5456.3	5495.3	5519.7	5524.6	5544.1	5556.3	5546.5	5544.1
7.5°	5529.5	5492.9	5527.0	5549.0	5600.2	5639.2	5656.3	5700.2	5731.9	5727.0	5724.6
10°	5688.0	5639.2	5678.2	5714.8	5770.9	5817.3	5819.7	5844.1	5875.8	5866.1	5861.2
12.5°	5870.9	5824.6	5868.5	5905.1	5970.9	5990.4	5958.7	5949.0	5953.9	5941.7	5931.9
15°	6095.3	6029.5	6068.5	6110.0	6146.5	6124.6	6056.3	6029.5	6027.0	6010.0	6000.2
17.5°	6319.7	6236.8	6266.1	6288.0	6270.9	6202.6	6117.3	6070.9	6049.0	6014.8	6005.1
20°	6541.7	6436.8	6431.9	6414.8	6336.8	6212.4	6097.8	6005.1	5949.0	5902.6	5885.6
22.5°	6795.4	6649.0	6575.8	6497.8	6327.0	6124.6	5951.4	5819.7	5729.5	5670.9	5651.4
25°	7068.5	6861.2	6710.0	6553.9	6229.5	5936.8	5695.3	5514.8	5407.5	5344.1	5322.1
27.5°	7339.3	7053.9	6827.1	6561.2	6034.3	5666.0	5341.6	5097.7	4990.4	4939.2	4922.1
30°	7705.1	7310.0	6966.1	6466.1	5778.2	5290.4	4885.5	4639.2	4568.4	4531.9	4517.2
32.5°	8127.1	7634.4	7151.5	6266.1	5451.4	4851.4	4424.5	4253.8	4205.0	4134.3	4131.8
35°	8683.2	8097.8	7327.1	5970.9	5039.2	4380.6	4070.9	3948.9	3861.1	3748.9	3739.2
37.5°	9332.0	8675.9	7422.2	5595.3	4558.7	3992.8	3807.4	3670.9	3529.4	3380.6	3361.1
40°	10002.8	9351.5	7429.5	5151.4	4087.9	3736.7	3580.6	3402.6	3226.9	3061.1	3039.1
42.5°	10707.7	9980.8	7300.2	4639.2	3702.6	3514.8	3356.2	3131.8	2934.2	2822.0	2809.9
45°	11337.0	10488.2	7007.6	4100.1	3417.2	3329.4	3126.9	2885.5	2780.6	2700.1	2683.0
47.5°	11832.1	10824.8	6612.4	3617.2	3185.5	3139.1	2875.7	2751.3	2670.8	2597.6	2580.6
50°	12076.0	10900.4	6097.8	3224.5	2970.8	2914.7	2734.2	2639.1	2585.5	2526.9	2512.3
52.5°	12378.5	10985.7	5653.8	2895.2	2761.1	2685.5	2617.2	2541.5	2502.5	2465.9	2453.7
55°	13073.6	11307.7	5419.7	2631.8	2561.1	2526.9	2517.2	2453.7	2441.5	2417.2	2395.2
57.5°	13356.5	11100.4	4866.0	2417.2	2402.5	2407.4	2431.8	2373.3	2361.1	2331.8	2317.2
60°	10741.8	8390.5	3295.2	2231.8	2270.8	2302.5	2326.9	2268.4	2251.3	2246.4	2226.9
62.5°	6883.2	5161.1	2300.1	2058.6	2117.1	2156.2	2170.8	2114.7	2102.5	2141.5	2144.0
65°	3583.0	2812.3	1865.9	1873.2	1922.0	1980.6	2009.8	1990.3	1985.4	2026.9	2029.3
67.5°	1829.3	1719.6	1626.9	1653.7	1692.7	1768.4	1836.6	1922.0	1951.3	1956.2	1958.6
70°	1558.6	1509.8	1463.5	1480.5	1522.0	1563.5	1629.3	1670.8	1622.0	1609.8	1604.9
72.5°	1326.9	1290.3	1268.3	1287.8	1309.8	1302.5	1283.0	1302.5	1309.8	1312.2	1314.7
75°	1031.7	1004.9	987.8	990.3	990.3	963.4	926.9	904.9	880.5	861.0	861.0
77.5°	631.7	636.6	653.7	651.2	648.8	639.0	602.5	582.9	524.4	507.3	507.3
80°	361.0	368.3	385.4	390.3	390.3	378.1	341.5	319.5	292.7	280.5	278.1
82.5°	219.5	229.3	239.0	243.9	246.3	231.7	200.0	182.9	168.3	156.1	156.1
85°	114.6	119.5	129.3	131.7	124.4	109.8	92.7	85.4	70.7	68.3	68.3
87.5°	31.7	34.1	39.0	31.7	29.3	22.0	12.2	9.8	4.9	2.4	2.4
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)