

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: P638764

Luminaire Tested: GWS-SA4F-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28367 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

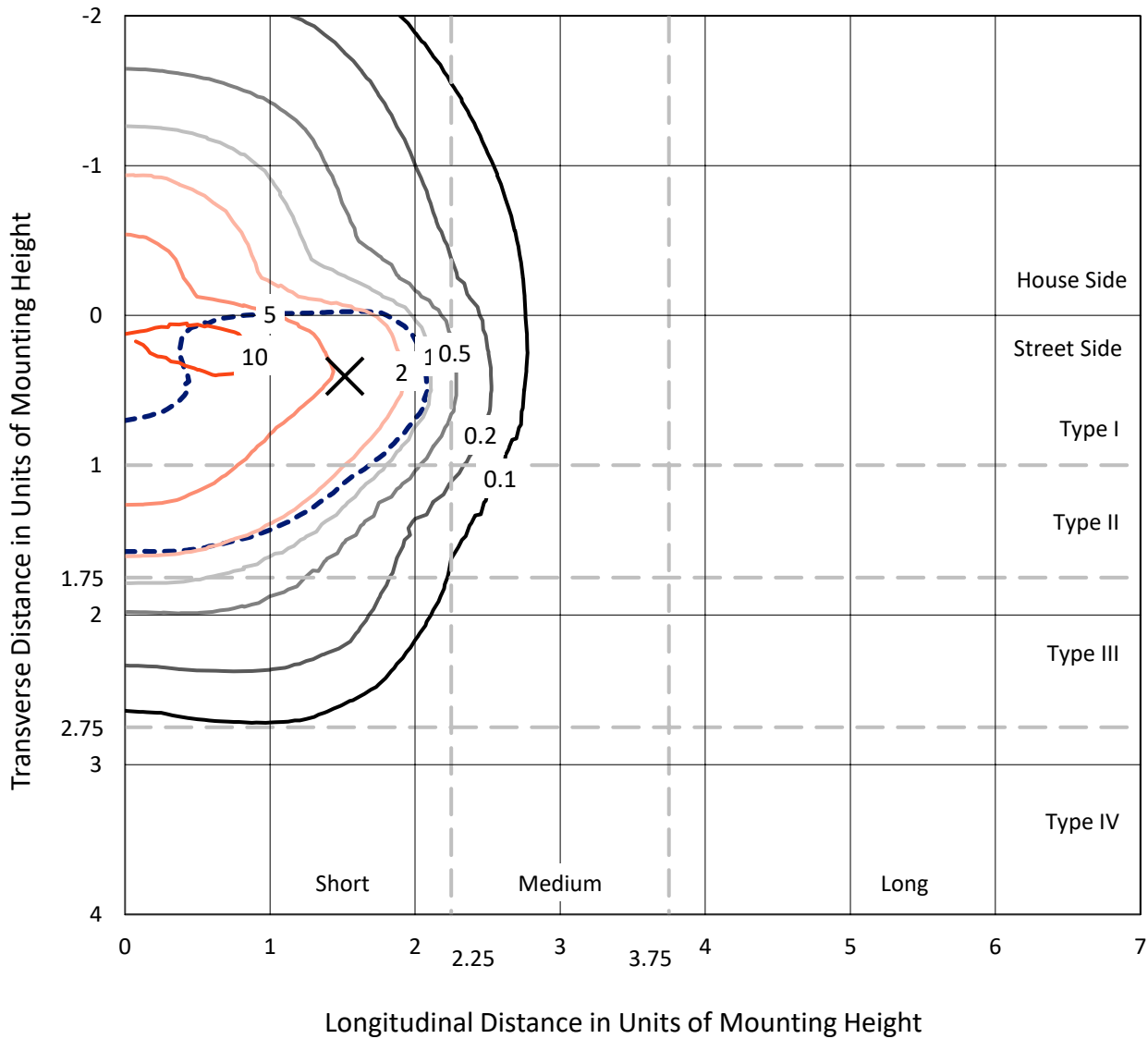
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638764
 CATALOG NUMBER: GWS-SA4F-740-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

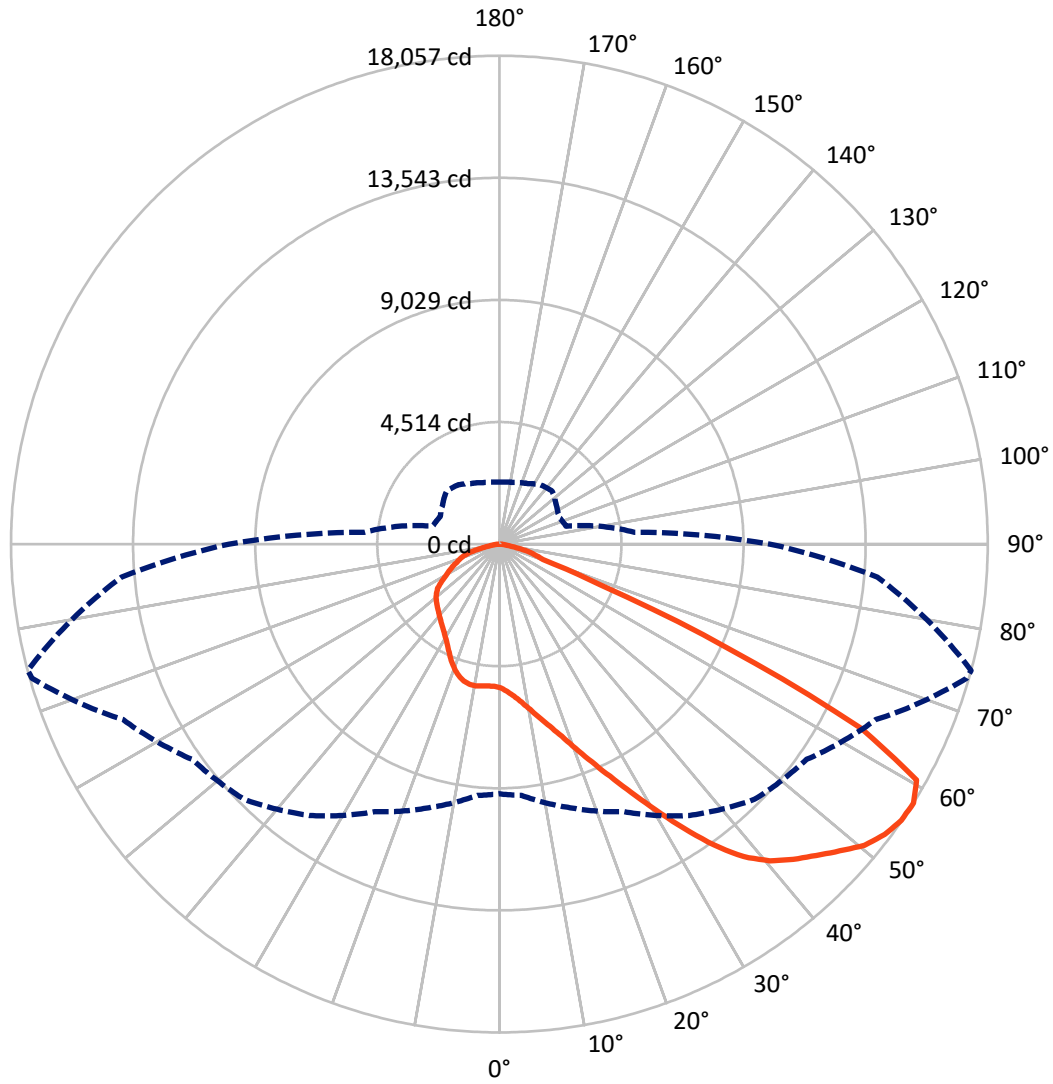
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

REPORT NUMBER: P638764
CATALOG NUMBER: GWS-SA4F-740-U-T2-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638764
 CATALOG NUMBER: GWS-SA4F-740-U-T2-W-GRSWH

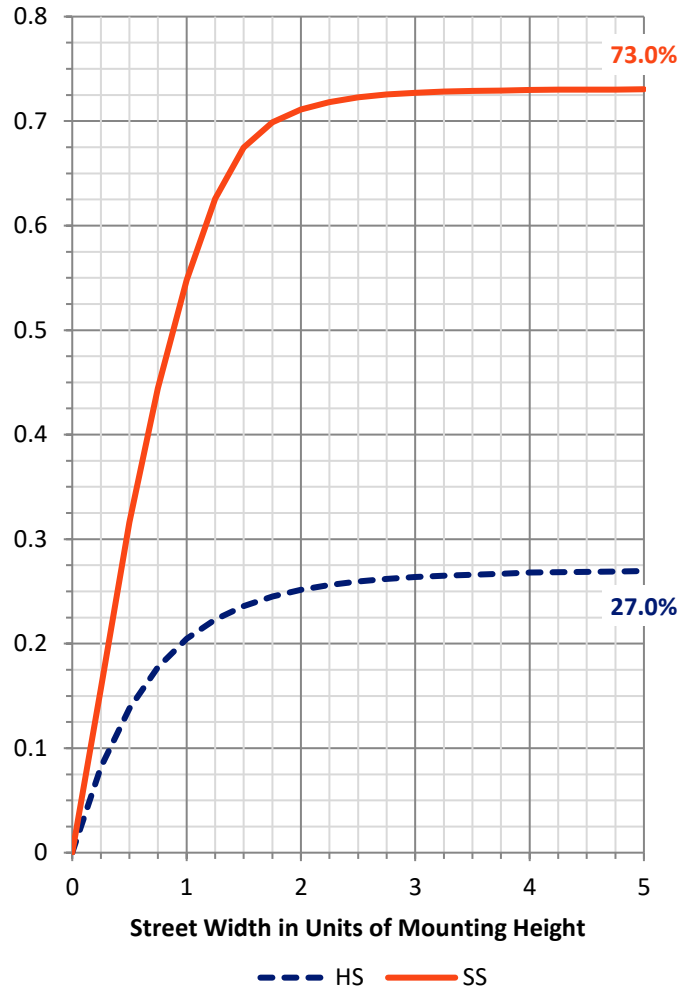
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7673.8	0.0	7673.8
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	20693.2	0.0	20693.2
	% Fixture	72.9	0.0	72.9
Total	Lumens	28367.0	0.0	28367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.6	1.9
10°-20°	1692.6	6.0
20°-30°	3001.7	10.6
30°-40°	4595.1	16.2
40°-50°	6398.3	22.6
50°-60°	7331.2	25.8
60°-70°	3766.9	13.3
70°-80°	948.3	3.3
80°-90°	101.4	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°	28367.0	100.0
0°-180°	28367.0	100.0

Coefficient of Utilization



REPORT NUMBER: P638764

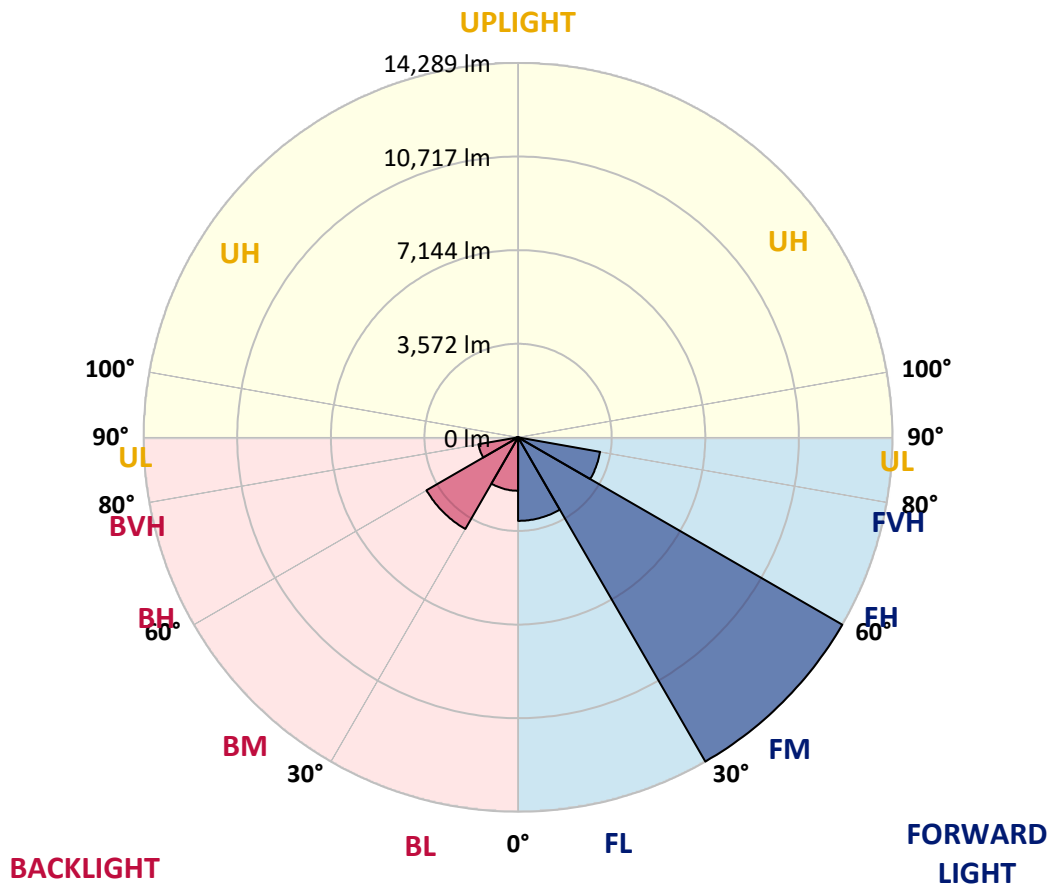
CATALOG NUMBER: GWS-SA4F-740-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3187.2	11.2			
FM (30°-60°)	14288.8	50.4			
FH (60°-80°)	3179.6	11.2			G2/5000
FVH (80°-90°)	37.5	0.1			G1/100
BL (0°-30°)	2038.7	7.2	B3/2500		
BM (30°-60°)	4035.7	14.2	B3/5000		
BH (60°-80°)	1535.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	63.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P638764

CATALOG NUMBER: GWS-SA4F-740-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5
2.5°	5707.6	5722.2	5707.6	5732.0	5683.2	5661.3	5607.6	5527.1	5463.7	5453.9	5383.2
5°	6151.5	6183.2	6163.7	6154.0	6088.1	6039.3	5958.8	5797.8	5666.1	5646.6	5507.6
7.5°	6436.9	6458.9	6458.9	6466.2	6441.8	6385.7	6300.3	6110.1	5924.7	5895.4	5685.6
10°	6532.0	6549.1	6580.8	6641.8	6690.6	6707.6	6651.5	6468.6	6241.8	6212.5	5919.8
12.5°	6554.0	6573.5	6622.3	6734.5	6868.6	6990.6	7000.3	6866.2	6612.5	6580.8	6190.6
15°	6595.4	6615.0	6680.8	6819.8	7017.4	7251.6	7395.5	7302.8	7022.3	6988.2	6497.9
17.5°	6590.6	6612.5	6710.1	6895.5	7161.3	7500.4	7778.4	7817.5	7527.2	7468.7	6846.7
20°	6578.4	6597.9	6702.8	6929.6	7258.9	7724.8	8227.2	8429.7	8117.5	8063.8	7254.0
22.5°	6675.9	6697.9	6778.4	6966.2	7310.1	7898.0	8641.9	9129.7	8817.5	8741.9	7722.3
25°	6895.5	6927.2	6976.0	7105.2	7402.8	8051.6	9066.3	9922.4	9602.9	9512.7	8232.1
27.5°	7234.5	7273.5	7341.8	7402.8	7610.1	8246.7	9488.3	10810.3	10490.8	10395.6	8771.2
30°	7649.2	7700.4	7788.2	7829.7	7971.1	8534.6	9946.8	11725.0	11539.6	11407.9	9378.5
32.5°	8222.4	8293.1	8376.0	8388.2	8473.6	8971.2	10400.5	12632.3	12629.9	12537.2	10068.8
35°	8968.7	9044.4	9061.4	9078.5	9120.0	9571.2	10949.3	13459.2	13778.7	13671.4	10820.0
37.5°	9783.4	9893.2	9920.0	9844.4	9902.9	10293.2	11566.4	14122.7	14778.8	14664.1	11546.9
40°	10654.2	10698.1	10771.3	10651.7	10724.9	11120.1	12171.3	14547.1	15525.2	15403.2	12120.1
42.5°	11278.6	11359.1	11468.9	11425.0	11466.4	11827.4	12595.7	14751.9	16056.9	15934.9	12532.3
45°	11956.7	11981.1	12051.8	12042.1	12066.5	12403.1	12900.6	14842.2	16532.5	16422.8	12883.6
47.5°	12547.0	12583.5	12629.9	12576.2	12522.6	12742.1	13149.4	14920.3	17081.3	16949.6	13251.9
50°	13115.3	13147.0	13203.1	13047.0	12847.0	12903.1	13271.4	15027.6	17596.0	17503.3	13542.1
52.5°	13220.2	13254.3	13517.7	13549.5	13293.3	13095.8	13486.0	15264.2	17898.4	17839.9	13647.0
55°	11900.6	11961.6	12486.0	13088.5	13720.2	13656.8	13830.0	15388.6	18018.0	18032.6	13834.8
57.5°	9237.0	9324.9	10090.7	10917.6	12246.9	13347.0	13873.9	15356.9	17976.5	18057.0	14027.5
60°	6058.8	6110.1	7017.4	7944.3	9322.4	10844.4	12417.7	14786.1	17608.2	17722.8	13978.7
62.5°	3658.7	3717.3	4446.6	5149.0	5961.3	6978.4	8422.4	11883.5	14759.3	15015.4	11195.7
65°	2553.8	2631.8	3270.9	3849.0	4129.5	3919.7	4266.1	6636.9	9195.6	9302.9	6841.8
67.5°	1851.3	1905.0	2429.4	3117.2	3427.0	2768.4	2109.9	2939.2	4005.1	4044.1	2822.1
70°	1212.3	1273.2	1748.9	2373.3	2797.7	2244.0	1578.1	1590.3	1685.4	1705.0	1639.1
72.5°	665.9	702.5	1080.5	1575.7	1653.7	1341.5	1231.8	1322.0	1387.9	1387.9	1404.9
75°	343.9	375.6	441.5	519.5	626.9	734.2	887.8	1022.0	1092.7	1097.6	1090.3
77.5°	175.6	187.8	236.6	256.1	280.5	326.8	424.4	543.9	607.3	631.7	626.9
80°	82.9	87.8	100.0	117.1	143.9	182.9	229.3	273.2	312.2	317.1	343.9
82.5°	43.9	48.8	53.7	63.4	78.1	97.6	134.2	161.0	185.4	190.3	212.2
85°	17.1	19.5	22.0	24.4	34.1	41.5	56.1	75.6	92.7	92.7	109.8
87.5°	0.0	0.0	0.0	0.0	2.4	4.9	9.8	12.2	17.1	17.1	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



REPORT NUMBER: P638764

CATALOG NUMBER: GWS-SA4F-740-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5
2.5°	5366.1	5295.4	5263.7	5212.5	5171.0	5124.6	5088.1	5061.2	5044.2	5034.4	5024.6
5°	5453.9	5346.6	5261.2	5158.8	5088.1	5019.8	4963.7	4924.6	4905.1	4890.5	4880.7
7.5°	5590.5	5446.6	5285.6	5127.1	5002.7	4892.9	4822.2	4780.7	4753.9	4744.1	4736.8
10°	5778.3	5578.3	5312.5	5061.2	4875.9	4756.3	4707.6	4688.0	4690.5	4685.6	4683.2
12.5°	5990.5	5717.4	5305.1	4944.1	4739.3	4668.5	4671.0	4702.7	4739.3	4749.0	4751.5
15°	6219.8	5853.9	5234.4	4792.9	4631.9	4639.3	4702.7	4778.3	4846.6	4873.4	4878.3
17.5°	6468.6	5968.6	5105.1	4627.1	4544.1	4622.2	4739.3	4863.7	4963.7	5007.6	5019.8
20°	6746.7	6066.2	4922.2	4463.6	4461.2	4590.5	4761.2	4924.6	5051.5	5110.0	5119.8
22.5°	7041.8	6127.1	4697.8	4312.4	4375.8	4549.0	4744.1	4914.9	5049.0	5107.6	5119.8
25°	7339.4	6146.6	4451.4	4173.4	4288.0	4483.1	4661.2	4797.8	4924.6	4975.9	4985.6
27.5°	7617.5	6090.5	4217.3	4053.9	4207.5	4385.6	4505.1	4578.3	4666.1	4705.1	4712.4
30°	7900.4	5978.3	4019.7	3958.7	4117.3	4251.4	4305.1	4310.0	4344.1	4344.1	4349.0
32.5°	8185.8	5812.5	3846.5	3866.0	4005.1	4092.9	4100.2	4044.1	4002.6	3934.3	3931.9
35°	8515.1	5644.2	3705.1	3761.2	3873.4	3927.0	3905.1	3797.7	3697.7	3585.5	3580.7
37.5°	8819.9	5471.0	3585.5	3653.8	3724.6	3763.6	3712.4	3583.1	3500.2	3385.5	3368.5
40°	9071.2	5314.9	3470.9	3541.6	3575.8	3609.9	3527.0	3422.1	3434.3	3370.9	3368.5
42.5°	9217.5	5163.7	3363.6	3417.2	3439.2	3463.6	3390.4	3312.4	3378.2	3329.4	3331.9
45°	9324.9	5032.0	3266.0	3285.5	3339.2	3375.8	3307.5	3219.7	3234.3	3046.5	3002.6
47.5°	9446.8	4958.8	3173.3	3153.8	3248.9	3312.4	3207.5	3080.6	2992.8	2807.5	2790.4
50°	9576.1	4932.0	3075.8	3022.1	3136.7	3197.7	3075.8	2917.2	2802.6	2702.6	2692.8
52.5°	9620.0	4929.5	2953.8	2863.6	2978.2	3063.6	2961.1	2800.1	2663.5	2566.0	2561.1
55°	9793.2	5000.2	2797.7	2646.5	2753.8	2929.4	2853.8	2622.1	2512.3	2468.4	2463.5
57.5°	9995.6	5012.4	2551.3	2409.9	2558.7	2766.0	2670.9	2470.9	2351.3	2297.7	2292.8
60°	9912.7	4712.4	2287.9	2229.4	2392.8	2612.3	2524.5	2351.3	2212.3	2161.1	2156.2
62.5°	7554.0	3327.0	2095.2	2073.3	2214.7	2390.4	2373.3	2192.8	2061.1	2024.5	2019.6
65°	4544.1	2336.7	1909.9	1907.4	2007.4	2175.7	2197.7	2051.3	1912.3	1861.1	1861.1
67.5°	2246.5	1787.9	1700.1	1687.9	1751.3	1870.8	1963.5	1844.0	1726.9	1678.1	1670.8
70°	1587.9	1575.7	1546.4	1512.3	1524.5	1573.2	1612.3	1512.3	1387.9	1339.1	1329.3
72.5°	1373.2	1375.7	1356.2	1329.3	1319.6	1285.4	1251.3	1178.1	1102.5	1051.3	1056.1
75°	1065.9	1070.8	1083.0	1073.2	1046.4	1009.8	973.2	880.5	819.6	770.8	761.0
77.5°	622.0	646.4	685.4	675.6	680.5	629.3	614.7	524.4	468.3	434.2	426.9
80°	351.2	365.9	382.9	395.1	380.5	358.6	326.8	278.1	261.0	236.6	231.7
82.5°	212.2	226.8	234.2	243.9	239.0	209.8	185.4	153.7	139.0	126.8	124.4
85°	107.3	117.1	124.4	129.3	114.6	95.1	85.4	68.3	58.5	51.2	51.2
87.5°	26.8	29.3	34.1	29.3	26.8	12.2	9.8	2.4	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)