

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: P638717

Luminaire Tested: GWS-SA4F-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638717
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28642.2 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

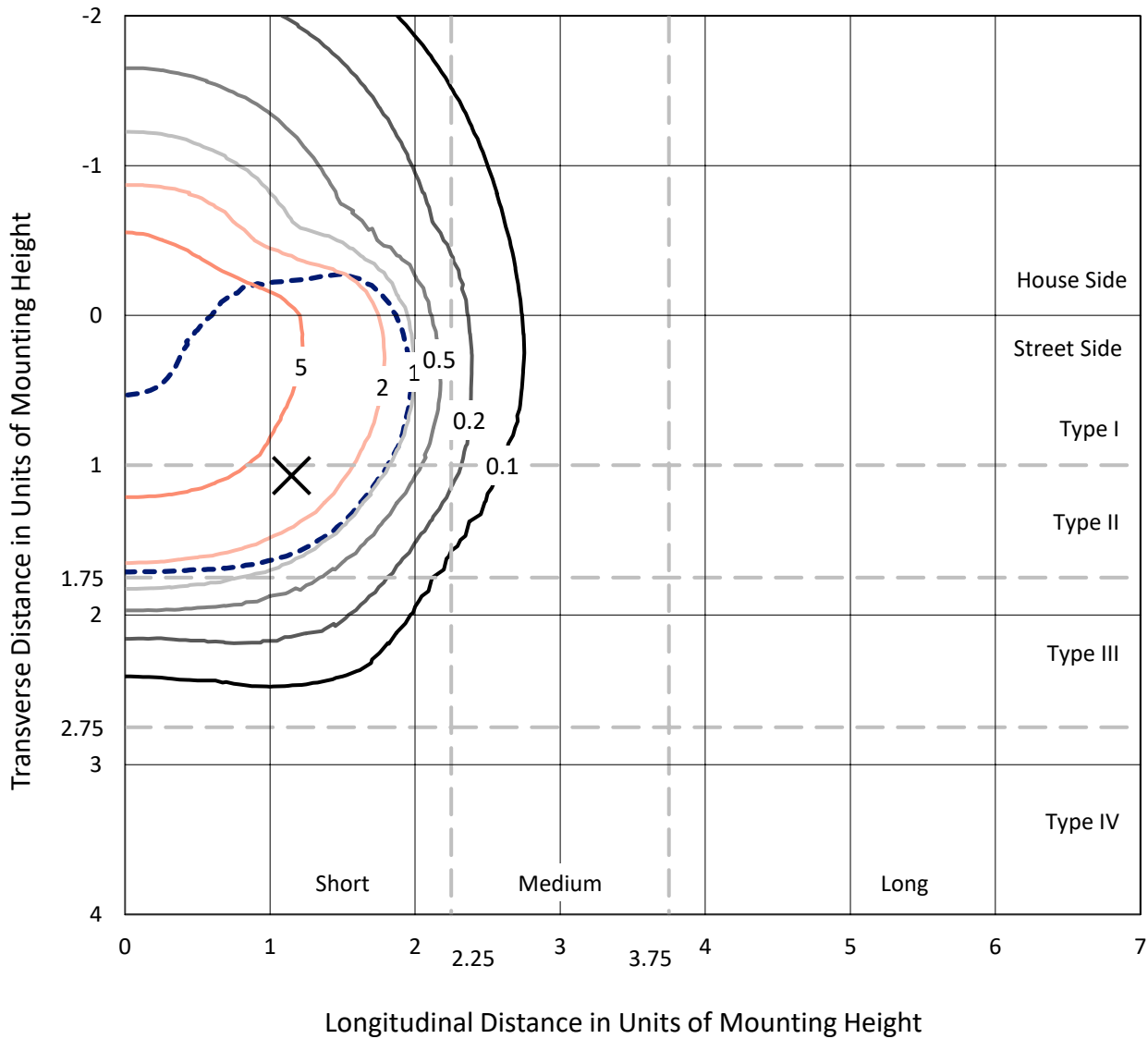
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

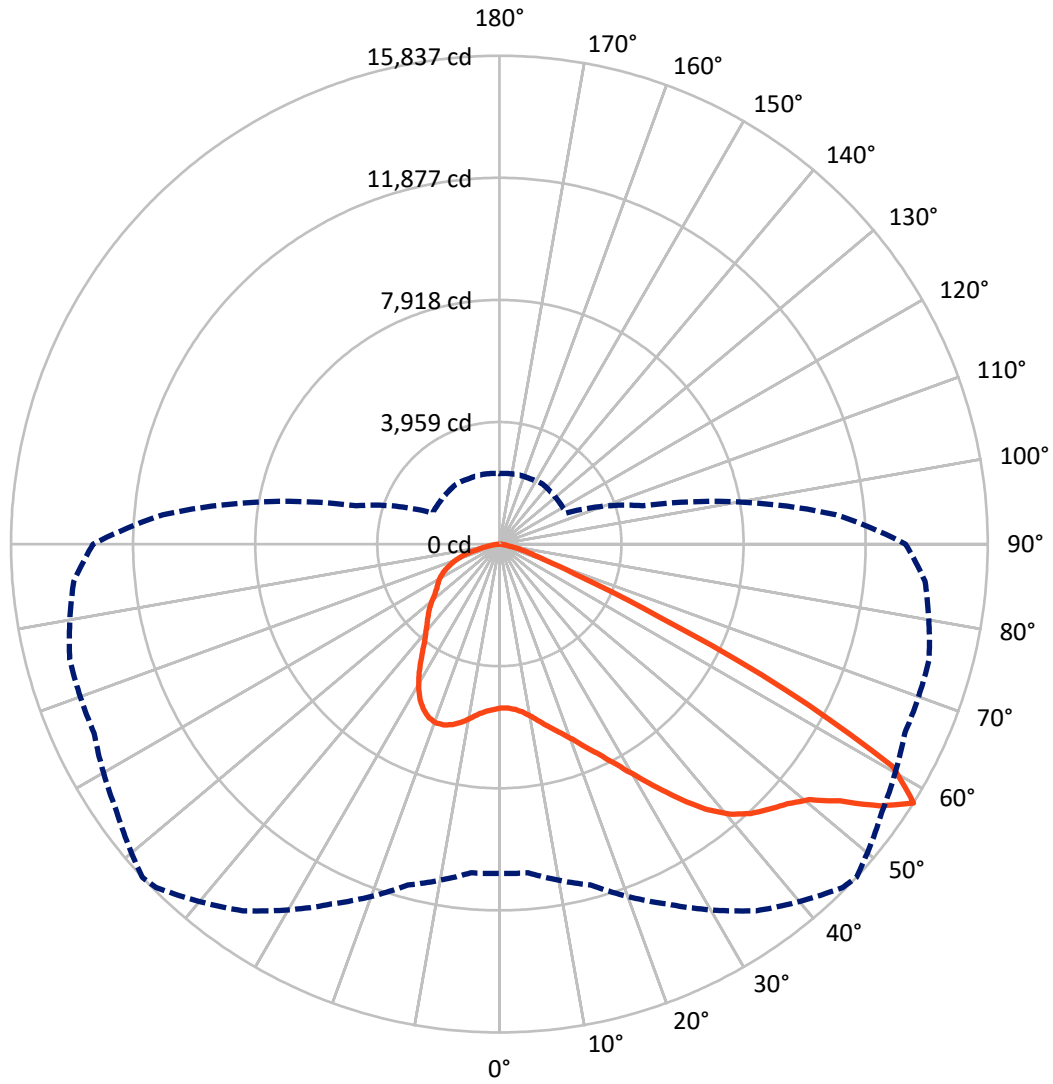
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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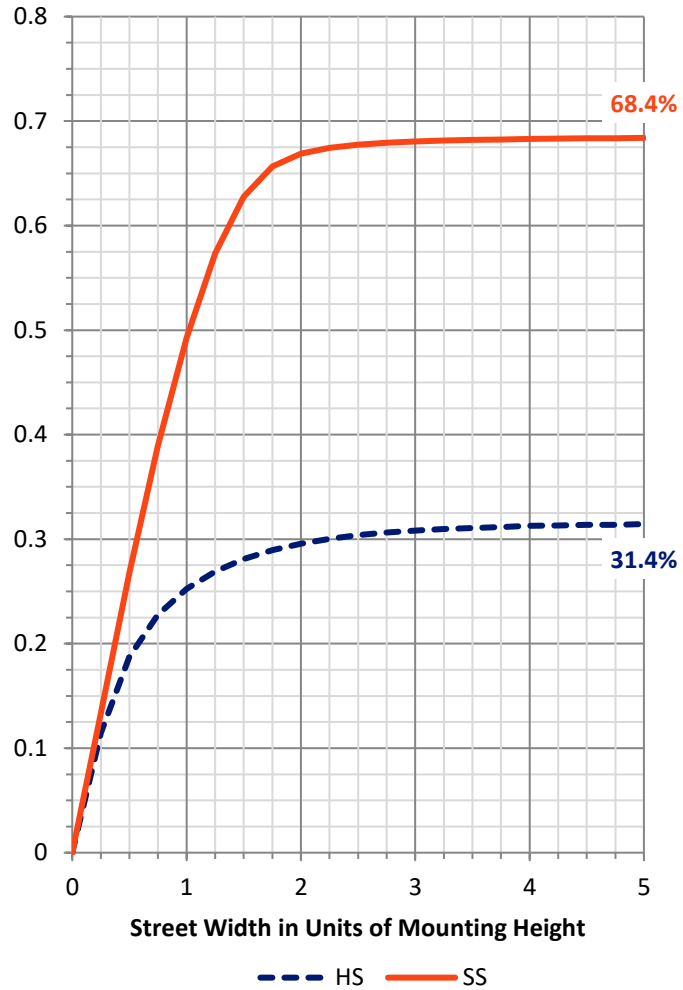
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9065.2	0.0	9065.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	19577.0	0.0	19577.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	28642.2	0.0	28642.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.9	1.8
10°-20°	1723.2	6.0
20°-30°	3102.7	10.8
30°-40°	4686.3	16.4
40°-50°	6310.7	22.0
50°-60°	7583.1	26.5
60°-70°	3693.1	12.9
70°-80°	909.8	3.2
80°-90°	109.4	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°	28642.2	100.0
0°-180°	28642.2	100.0

Coefficient of Utilization



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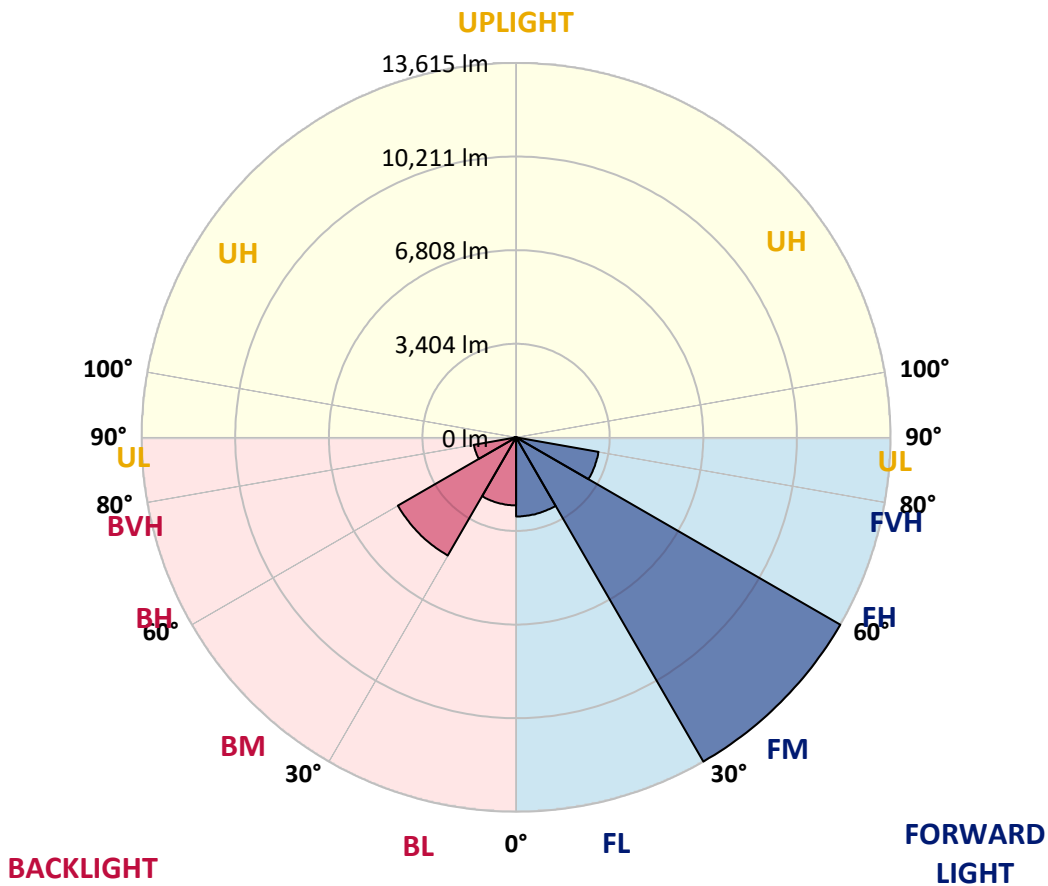
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2877.0	10.0			
FM (30°-60°)	13615.1	47.5			
FH (60°-80°)	3043.8	10.6			G2/5000
FVH (80°-90°)	41.1	0.1			G1/100
BL (0°-30°)	2472.8	8.6	B3/2500		
BM (30°-60°)	4965.0	17.3	B3/5000		
BH (60°-80°)	1559.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	68.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5311.7	5311.7	5311.7	5311.7	5311.7	5311.7	5311.7	5311.7	5311.7	5311.7	5311.7
2.5°	5302.1	5299.7	5299.7	5314.1	5314.1	5319.0	5326.2	5333.4	5335.8	5323.8	5297.3
5°	5359.9	5359.9	5359.9	5371.9	5371.9	5376.7	5386.3	5388.7	5386.3	5367.1	5340.6
7.5°	5451.3	5451.3	5453.7	5468.1	5480.1	5487.4	5504.2	5501.8	5494.6	5463.3	5429.6
10°	5600.4	5607.6	5614.9	5631.7	5655.7	5672.6	5684.6	5684.6	5675.0	5626.9	5583.6
12.5°	5812.1	5821.7	5829.0	5843.4	5862.6	5891.5	5918.0	5918.0	5905.9	5845.8	5780.8
15°	6059.9	6069.5	6067.1	6071.9	6108.0	6148.9	6170.6	6185.0	6189.8	6105.6	6004.6
17.5°	6343.8	6353.4	6343.8	6329.3	6334.2	6399.1	6437.6	6490.5	6521.8	6408.7	6247.5
20°	6601.2	6591.6	6591.6	6601.2	6615.6	6695.0	6752.7	6839.3	6877.8	6740.7	6490.5
22.5°	6873.0	6894.7	6885.1	6885.1	6942.8	7075.1	7144.9	7257.9	7298.8	7120.8	6784.0
25°	7224.3	7243.5	7238.7	7243.5	7310.9	7498.5	7568.3	7777.6	7818.5	7563.5	7108.8
27.5°	7609.2	7640.4	7654.9	7650.1	7758.3	8003.7	8090.3	8381.4	8456.0	8059.0	7455.2
30°	8109.5	8143.2	8155.2	8150.4	8277.9	8612.3	8711.0	9042.9	9148.8	8646.0	7895.4
32.5°	8689.3	8723.0	8759.1	8773.5	8937.1	9278.7	9420.6	9764.6	9916.2	9324.4	8427.1
35°	9264.3	9293.1	9362.9	9476.0	9699.7	10048.5	10173.6	10512.8	10659.6	10029.3	9069.4
37.5°	9899.4	9918.6	9978.8	10135.1	10457.5	10789.5	10914.6	11239.3	11256.2	10710.1	9795.9
40°	10594.6	10594.6	10582.6	10736.5	11073.3	11407.7	11516.0	11703.6	11605.0	11234.5	10503.2
42.5°	11184.0	11174.4	11184.0	11328.3	11578.5	11850.4	11944.2	11908.1	11783.0	11636.3	11143.1
45°	11715.7	11722.9	11809.5	11920.1	12050.0	12211.2	12266.6	12062.1	11949.0	11958.6	11655.5
47.5°	12076.5	12083.7	12285.8	12471.0	12550.4	12600.9	12576.9	12293.0	12235.3	12343.5	12050.0
50°	12124.6	12163.1	12511.9	12892.0	13089.3	13096.5	13029.2	12682.7	12665.9	12788.6	12261.7
52.5°	12134.2	12172.7	12608.2	13293.8	13806.2	13914.4	13837.5	13476.6	13301.0	13178.3	12521.6
55°	12098.2	12141.5	12622.6	13563.2	14544.7	14977.8	14985.0	14475.0	13914.4	13832.6	13262.5
57.5°	10681.2	10698.1	11443.8	12877.6	14515.9	15742.8	15836.6	15143.7	14503.8	14426.9	13856.7
60°	7440.8	7508.1	8318.8	10212.1	12194.4	14357.1	14660.2	14458.1	14029.9	13469.4	11888.9
62.5°	3726.4	3784.1	4597.3	6387.1	8410.3	10118.3	10443.0	10657.2	10758.2	10156.8	8095.1
65°	1604.6	1647.9	2153.1	3336.7	4760.8	5586.0	5699.1	5956.5	6586.7	5877.1	4361.5
67.5°	1072.9	1101.8	1359.2	2035.2	2805.0	2857.9	2841.1	2896.4	3033.6	2504.3	1970.3
70°	822.7	846.8	1020.0	1491.5	2016.0	1724.9	1633.5	1481.9	1609.4	1640.7	1597.4
72.5°	596.6	615.9	745.8	1017.6	1263.0	1101.8	1087.4	1164.3	1337.6	1385.7	1359.2
75°	384.9	394.5	473.9	558.1	651.9	707.3	736.1	875.7	1051.3	1087.4	1056.1
77.5°	257.4	264.6	310.3	358.4	370.5	372.9	382.5	445.1	565.3	632.7	625.5
80°	134.7	134.7	151.6	151.6	173.2	206.9	216.5	257.4	312.7	346.4	348.8
82.5°	52.9	55.3	65.0	72.2	86.6	105.8	113.1	134.7	163.6	187.6	209.3
85°	21.7	24.1	26.5	31.3	38.5	48.1	50.5	57.7	77.0	96.2	108.3
87.5°	0.0	0.0	2.4	2.4	4.8	7.2	7.2	9.6	12.0	21.7	28.9
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°	5311.7	5311.7	5311.7	5311.7	5311.7	5311.7	5311.7	5311.7	5311.7	5311.7	5311.7
2.5°	5328.6	5297.3	5328.6	5338.2	5364.7	5374.3	5357.4	5355.0	5355.0	5331.0	5323.8
5°	5364.7	5335.8	5367.1	5381.5	5420.0	5444.0	5448.9	5468.1	5480.1	5470.5	5468.1
7.5°	5453.7	5417.6	5451.3	5472.9	5523.4	5561.9	5578.8	5622.1	5653.3	5648.5	5646.1
10°	5610.0	5561.9	5600.4	5636.5	5691.8	5737.5	5739.9	5764.0	5795.3	5785.7	5780.8
12.5°	5790.5	5744.8	5788.1	5824.1	5889.1	5908.3	5877.1	5867.4	5872.3	5860.2	5850.6
15°	6011.8	5946.8	5985.3	6026.2	6062.3	6040.7	5973.3	5946.8	5944.4	5927.6	5918.0
17.5°	6233.1	6151.3	6180.2	6201.8	6185.0	6117.6	6033.4	5987.7	5966.1	5932.4	5922.8
20°	6452.0	6348.6	6343.8	6326.9	6250.0	6127.3	6014.2	5922.8	5867.4	5821.7	5804.9
22.5°	6702.2	6557.9	6485.7	6408.7	6240.3	6040.7	5869.9	5739.9	5650.9	5593.2	5574.0
25°	6971.7	6767.2	6618.0	6464.1	6144.1	5855.4	5617.3	5439.2	5333.4	5270.8	5249.2
27.5°	7238.7	6957.2	6733.5	6471.3	5951.6	5588.4	5268.4	5027.9	4922.0	4871.5	4854.7
30°	7599.5	7209.8	6870.6	6377.5	5699.1	5217.9	4818.6	4575.6	4505.8	4469.7	4455.3
32.5°	8015.7	7529.8	7053.4	6180.2	5376.7	4784.9	4363.9	4195.5	4147.4	4077.6	4075.2
35°	8564.2	7986.9	7226.7	5889.1	4970.1	4320.6	4015.1	3894.8	3808.2	3697.5	3687.9
37.5°	9204.1	8557.0	7320.5	5518.6	4496.2	3938.1	3755.3	3620.5	3481.0	3334.3	3315.0
40°	9865.7	9223.4	7327.7	5080.8	4031.9	3685.5	3531.5	3355.9	3182.7	3019.1	2997.5
42.5°	10560.9	9844.0	7200.2	4575.6	3651.8	3466.6	3310.2	3088.9	2894.0	2783.4	2771.3
45°	11181.6	10344.4	6911.5	4043.9	3370.4	3283.8	3084.1	2845.9	2742.5	2663.1	2646.2
47.5°	11669.9	10676.4	6521.8	3567.6	3141.8	3096.1	2836.3	2713.6	2634.2	2562.0	2545.2
50°	11910.5	10751.0	6014.2	3180.3	2930.1	2874.8	2696.8	2602.9	2550.0	2492.3	2477.8
52.5°	12208.8	10835.2	5576.4	2855.5	2723.2	2648.7	2581.3	2506.7	2468.2	2432.1	2420.1
55°	12894.4	11152.7	5345.4	2595.7	2526.0	2492.3	2482.7	2420.1	2408.1	2384.0	2362.4
57.5°	13173.5	10948.2	4799.3	2384.0	2369.6	2374.4	2398.5	2340.7	2328.7	2299.8	2285.4
60°	10594.6	8275.5	3250.1	2201.2	2239.7	2271.0	2295.0	2237.3	2220.4	2215.6	2196.4
62.5°	6788.8	5090.4	2268.6	2030.4	2088.1	2126.6	2141.1	2085.7	2073.7	2112.2	2114.6
65°	3533.9	2773.7	1840.3	1847.6	1895.7	1953.4	1982.3	1963.0	1958.2	1999.1	2001.5
67.5°	1804.3	1696.0	1604.6	1631.0	1669.5	1744.1	1811.5	1895.7	1924.5	1929.4	1931.8
70°	1537.2	1489.1	1443.4	1460.2	1501.1	1542.0	1607.0	1647.9	1599.8	1587.7	1582.9
72.5°	1308.7	1272.6	1251.0	1270.2	1291.8	1284.6	1265.4	1284.6	1291.8	1294.3	1296.7
75°	1017.6	991.1	974.3	976.7	976.7	950.2	914.2	892.5	868.4	849.2	849.2
77.5°	623.1	627.9	644.7	642.3	639.9	630.3	594.2	575.0	517.2	500.4	500.4
80°	356.0	363.3	380.1	384.9	384.9	372.9	336.8	315.1	288.7	276.7	274.2
82.5°	216.5	226.1	235.8	240.6	243.0	228.5	197.3	180.4	166.0	154.0	154.0
85°	113.1	117.9	127.5	129.9	122.7	108.3	91.4	84.2	69.8	67.4	67.4
87.5°	31.3	33.7	38.5	31.3	28.9	21.7	12.0	9.6	4.8	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)