

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: P640206

Luminaire Tested: GWS-SA5D-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25976.9 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

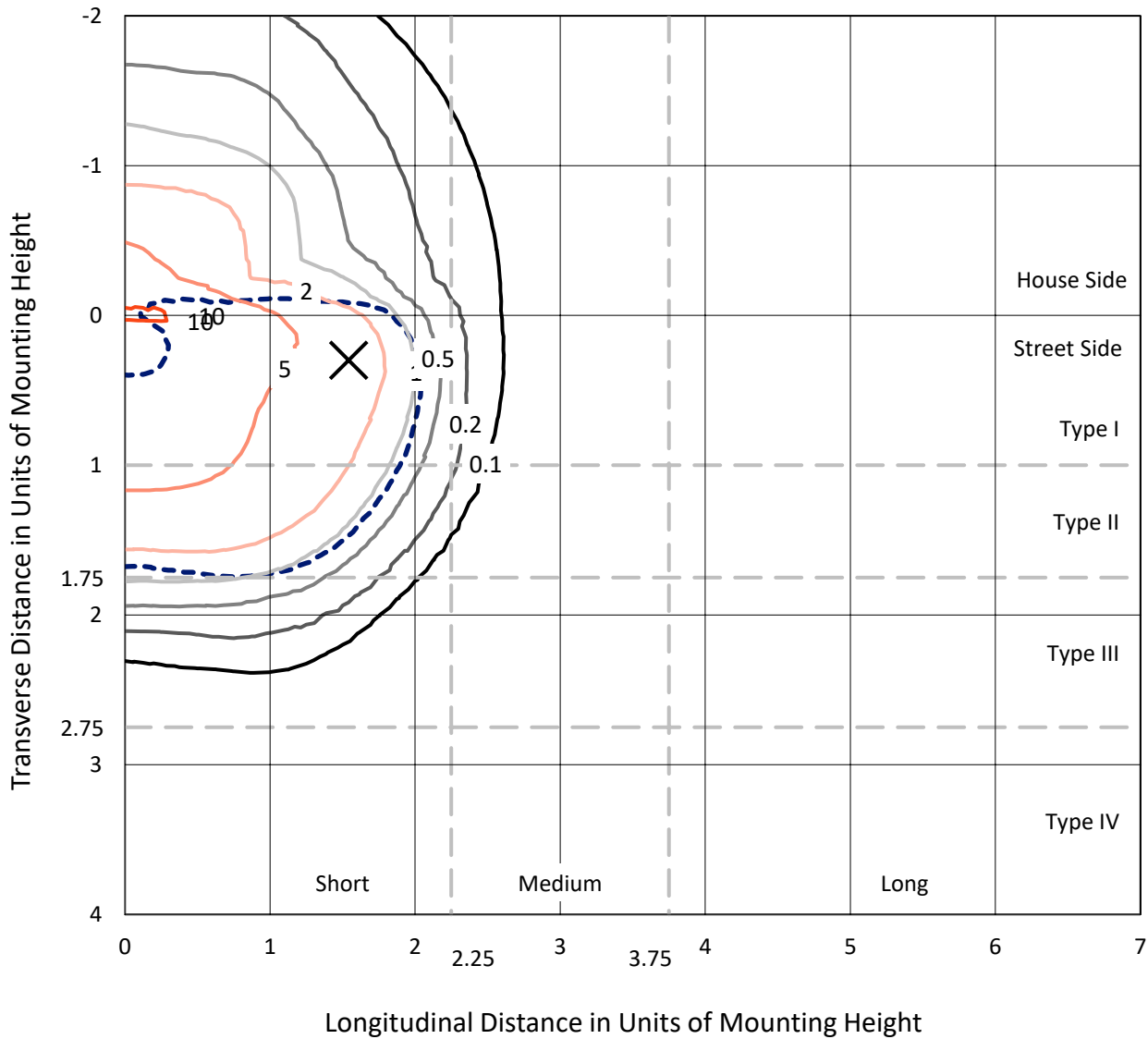
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

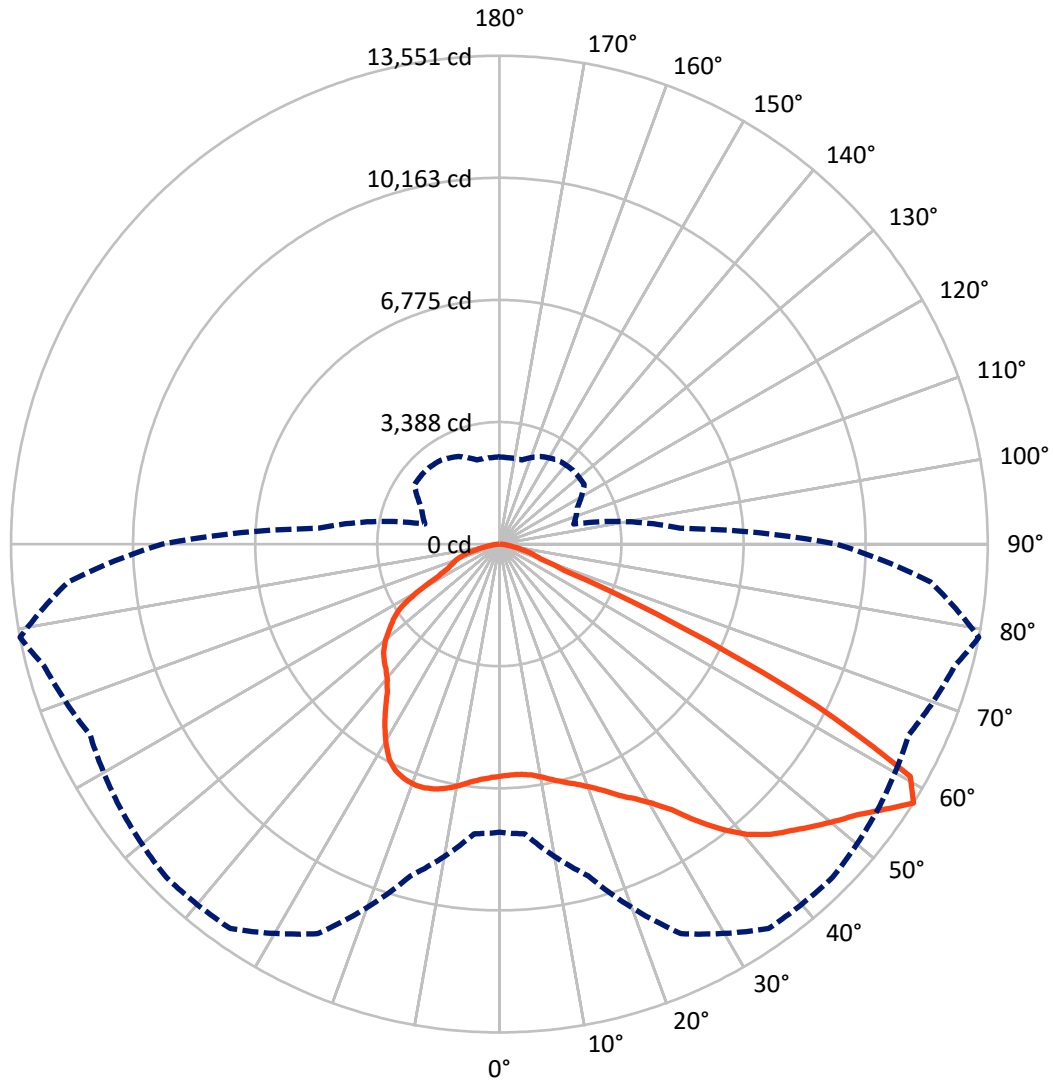
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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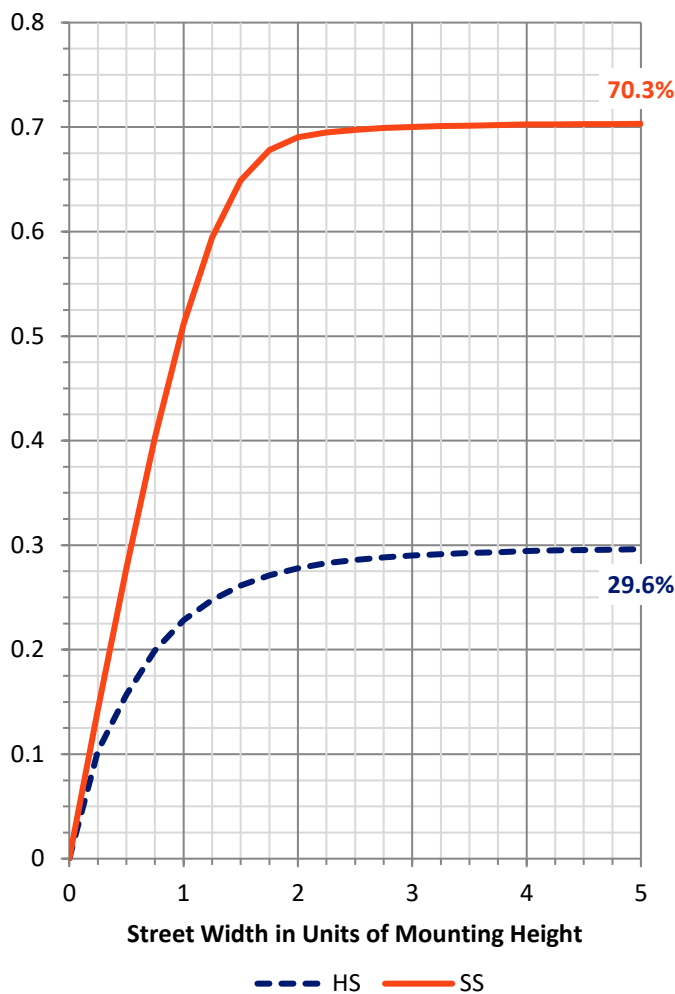
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7721.7	0.0	7721.7
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	18255.2	0.0	18255.2
	% Fixture	70.3	0.0	70.3
Total	Lumens	25976.9	0.0	25976.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.2	2.3
10°-20°	1656.8	6.4
20°-30°	2808.3	10.8
30°-40°	4298.5	16.5
40°-50°	5731.7	22.1
50°-60°	6619.7	25.5
60°-70°	3439.8	13.2
70°-80°	731.2	2.8
80°-90°	94.7	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°	25976.9	100.0
0°-180°	25976.9	100.0

Coefficient of Utilization



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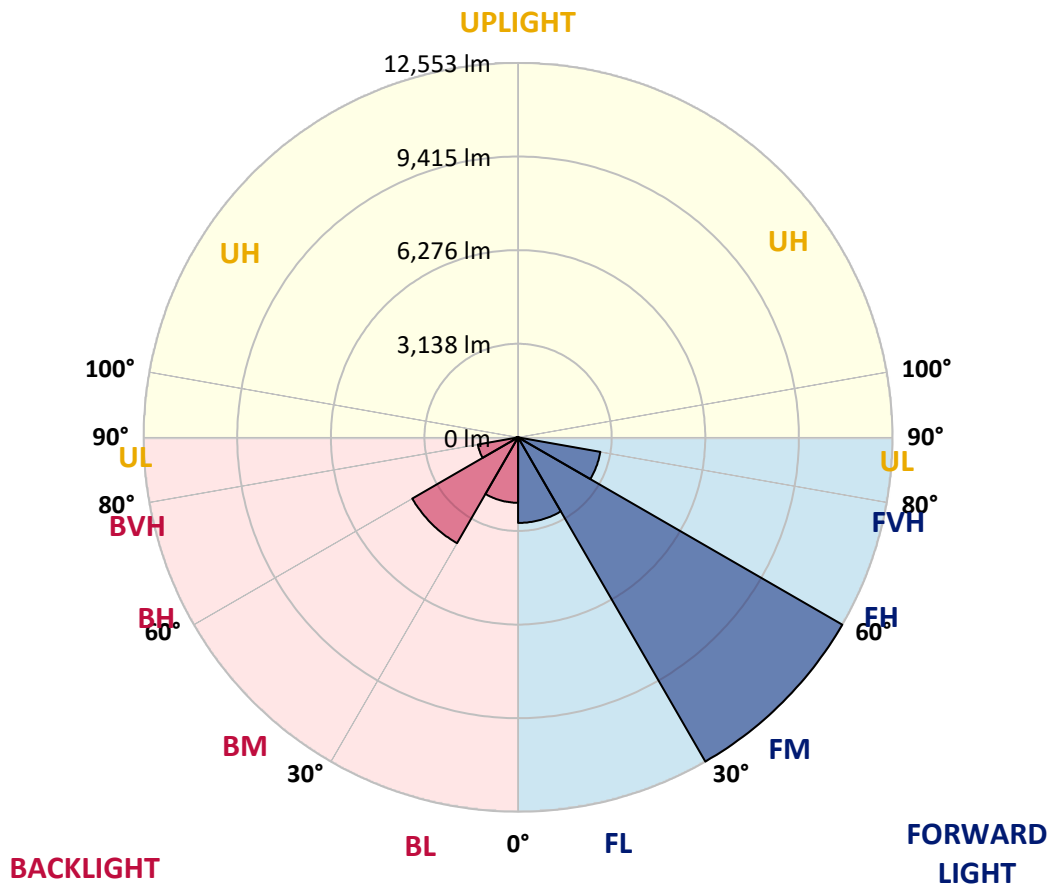
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2868.4	11.0			
FM (30°-60°)	12552.8	48.3			
FH (60°-80°)	2801.0	10.8			G2/5000
FVH (80°-90°)	33.0	0.1			G1/100
BL (0°-30°)	2192.9	8.4	B3/2500		
BM (30°-60°)	4097.1	15.8	B3/5000		
BH (60°-80°)	1370.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	61.7	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°	55°	65°	75°	79°	85°
0°	6437.7	6437.7	6437.7	6437.7	6437.7	6437.7	6437.7	6437.7	6437.7	6437.7	6437.7
2.5°	6144.6	6131.8	6136.1	6153.1	6216.8	6263.5	6312.4	6357.0	6399.4	6412.2	6422.8
5°	5925.8	5902.4	5908.8	5936.4	6010.8	6089.3	6176.4	6282.6	6384.6	6418.6	6463.2
7.5°	5770.8	5766.5	5777.1	5819.6	5898.2	5972.5	6085.1	6235.9	6412.2	6469.5	6548.1
10°	5564.7	5556.2	5598.7	5685.8	5815.4	5934.3	6068.1	6246.5	6492.9	6577.9	6698.9
12.5°	5401.2	5396.9	5441.5	5562.6	5728.3	5917.3	6102.1	6301.7	6601.2	6718.0	6866.7
15°	5496.8	5477.7	5479.8	5564.7	5713.4	5936.4	6187.1	6401.6	6709.5	6858.2	7049.4
17.5°	5775.0	5741.0	5715.5	5730.4	5815.4	6046.9	6316.6	6535.4	6834.9	7009.0	7242.7
20°	6159.4	6140.3	6070.2	6023.5	6042.6	6246.5	6520.5	6724.4	6998.4	7193.8	7444.4
22.5°	6675.6	6628.8	6533.3	6458.9	6401.6	6560.9	6813.6	6989.9	7225.7	7429.6	7690.8
25°	7314.9	7246.9	7096.1	6979.3	6856.1	7019.6	7244.8	7378.6	7537.9	7726.9	7975.4
27.5°	7966.9	7909.6	7741.8	7584.6	7431.7	7533.6	7801.2	7877.7	7860.7	7998.8	8211.2
30°	8661.4	8589.2	8429.9	8260.0	8062.5	8128.3	8368.3	8406.6	8226.0	8340.7	8485.2
32.5°	9394.2	9324.1	9186.1	8988.5	8765.5	8791.0	8856.8	8893.0	8720.9	8786.8	8897.2
35°	10139.7	10073.9	9933.7	9738.3	9574.7	9419.7	9254.0	9398.5	9298.6	9426.1	9417.6
37.5°	10821.5	10755.7	10668.6	10517.8	10237.4	9931.6	9549.3	9727.7	9882.7	10044.1	10016.5
40°	11282.4	11237.8	11259.0	11235.7	10874.6	10269.3	9693.7	9889.1	10311.8	10587.9	10573.0
42.5°	11679.6	11635.0	11758.2	11847.4	11422.6	10581.5	9763.8	9950.7	10585.7	11016.9	10995.7
45°	11855.9	11843.1	12047.0	12329.5	11923.8	10912.8	9944.3	10078.1	10793.9	11346.1	11265.4
47.5°	11645.6	11690.2	12091.6	12569.5	12340.1	11305.8	10313.9	10347.9	11065.8	11702.9	11475.7
50°	11227.2	11324.9	11866.5	12575.9	12643.8	11749.7	10825.7	10740.8	11431.1	12083.1	11586.1
52.5°	10617.6	10719.5	11603.1	12527.0	12818.0	12263.7	11507.5	11386.5	11892.0	12463.3	11605.2
55°	9217.9	9356.0	10999.9	12416.6	12987.9	12730.9	12276.4	12030.0	12486.7	12985.8	11794.3
57.5°	7996.7	8068.9	9530.1	11925.9	13021.9	13075.0	12824.4	12531.3	13077.1	13550.8	12006.7
60°	5868.5	5885.5	7200.2	9867.8	11979.0	12875.4	12779.8	12344.4	12796.8	13098.4	11033.9
62.5°	3315.5	3317.6	4366.8	6586.4	8948.2	10494.4	10553.9	10169.4	9789.3	9878.5	7680.2
65°	1244.6	1361.4	1994.4	3236.9	5159.1	6195.5	6441.9	6531.1	5898.2	5505.3	4118.3
67.5°	832.6	860.2	1163.9	1665.2	2296.0	2650.7	2965.0	2973.5	2174.9	1939.2	1622.7
70°	635.1	662.7	915.4	1191.5	1163.9	1074.7	1161.8	1129.9	1168.2	1200.0	1234.0
72.5°	473.6	501.3	709.4	841.1	698.8	688.2	779.5	866.6	947.3	981.3	1034.4
75°	314.3	335.6	477.9	450.3	386.6	456.6	569.2	656.3	703.0	743.4	783.7
77.5°	199.7	214.5	254.9	206.0	214.5	267.6	331.3	409.9	454.5	494.9	516.1
80°	91.3	89.2	87.1	97.7	121.1	157.2	199.7	246.4	280.4	297.4	310.1
82.5°	36.1	40.4	44.6	53.1	65.8	85.0	112.6	144.4	172.0	176.3	186.9
85°	14.9	17.0	19.1	23.4	29.7	38.2	46.7	65.8	82.8	89.2	95.6
87.5°	0.0	0.0	0.0	0.0	2.1	4.2	6.4	10.6	19.1	21.2	23.4
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°	6437.7	6437.7	6437.7	6437.7	6437.7	6437.7	6437.7	6437.7	6437.7	6437.7	6437.7
2.5°	6480.2	6452.5	6499.3	6531.1	6560.9	6529.0	6518.4	6490.8	6486.5	6486.5	6501.4
5°	6539.6	6520.5	6569.4	6588.5	6586.4	6516.3	6473.8	6418.6	6390.9	6390.9	6395.2
7.5°	6645.8	6635.2	6662.8	6633.1	6565.1	6422.8	6282.6	6165.8	6087.2	6046.9	6059.6
10°	6822.1	6809.4	6786.0	6675.6	6480.2	6184.9	5898.2	5685.8	5558.4	5486.1	5490.4
12.5°	6994.1	6972.9	6890.1	6645.8	6244.4	5775.0	5399.1	5161.2	5021.0	4936.0	4916.9
15°	7183.2	7128.0	6949.5	6492.9	5860.0	5273.8	4880.8	4623.8	4473.0	4422.1	4419.9
17.5°	7363.7	7266.0	6943.2	6221.0	5399.1	4749.1	4354.1	4194.8	4169.3	4192.7	4199.0
20°	7546.4	7389.2	6873.1	5845.1	4851.1	4226.6	4022.8	4088.6	4184.2	4247.9	4262.8
22.5°	7735.4	7491.2	6713.8	5360.8	4273.4	3874.1	3959.0	4103.5	4222.4	4307.4	4315.9
25°	7947.8	7586.7	6475.9	4768.3	3810.4	3776.4	3944.2	4097.1	4224.5	4322.2	4339.2
27.5°	8068.9	7588.9	6142.4	4158.7	3598.0	3738.1	3908.1	4052.5	4179.9	4286.1	4305.2
30°	8187.8	7531.5	5613.6	3663.8	3536.4	3693.5	3846.5	3980.3	4101.3	4205.4	4228.8
32.5°	8355.6	7478.4	5004.0	3379.2	3500.3	3651.1	3776.4	3895.3	3988.8	4035.5	4048.2
35°	8563.7	7410.4	4356.2	3256.0	3476.9	3617.1	3727.5	3791.2	3670.2	3644.7	3672.3
37.5°	8854.7	7346.7	3710.5	3202.9	3462.0	3604.3	3702.0	3538.5	3389.8	3330.3	3351.6
40°	9169.1	7310.6	3273.0	3160.4	3468.4	3617.1	3595.8	3353.7	3139.2	3013.9	3009.6
42.5°	9436.7	7255.4	2992.6	3132.8	3485.4	3665.9	3451.4	3190.2	2871.6	2797.2	2799.4
45°	9617.2	7115.2	2844.0	3103.1	3500.3	3676.5	3383.4	2965.0	2737.8	2691.0	2688.9
47.5°	9691.6	6860.3	2748.4	3056.4	3498.1	3589.5	3245.4	2871.6	2644.3	2631.6	2640.1
50°	9642.7	6441.9	2650.7	2965.0	3447.2	3498.1	3086.1	2788.7	2580.6	2650.7	2701.7
52.5°	9462.2	5900.3	2533.9	2839.7	3355.8	3394.1	3005.4	2737.8	2533.9	2627.3	2667.7
55°	9415.4	5460.7	2385.2	2676.2	3219.9	3209.3	2920.4	2712.3	2502.0	2465.9	2472.3
57.5°	9353.9	5031.6	2138.8	2383.1	2875.8	2892.8	2839.7	2682.5	2419.2	2408.6	2419.2
60°	8126.2	3857.1	1907.3	2056.0	2361.8	2453.2	2748.4	2627.3	2285.4	2240.8	2238.6
62.5°	5307.7	2336.3	1697.0	1792.6	1924.3	2030.5	2506.3	2468.0	2138.8	2111.2	2130.3
65°	2854.6	1665.2	1544.1	1601.5	1673.7	1754.4	2077.2	2198.3	1932.8	1835.1	1837.2
67.5°	1459.2	1416.7	1429.4	1469.8	1525.0	1565.3	1675.8	1782.0	1648.2	1565.3	1563.2
70°	1248.9	1282.9	1302.0	1325.3	1361.4	1355.1	1365.7	1384.8	1374.2	1333.8	1331.7
72.5°	1064.1	1117.2	1121.4	1125.7	1138.4	1108.7	1089.6	1057.7	1059.8	1066.2	1068.3
75°	809.2	860.2	872.9	866.6	879.3	841.1	815.6	783.7	745.5	739.1	743.4
77.5°	526.7	567.1	586.2	582.0	588.3	558.6	545.9	511.9	467.3	450.3	450.3
80°	318.6	342.0	356.8	361.1	367.4	346.2	325.0	295.2	276.1	257.0	257.0
82.5°	193.3	208.1	218.8	218.8	225.1	201.8	184.8	163.5	155.0	138.1	138.1
85°	97.7	108.3	112.6	110.4	106.2	87.1	80.7	70.1	65.8	57.3	57.3
87.5°	23.4	29.7	29.7	21.2	21.2	10.6	6.4	2.1	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)