

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: P639686

Luminaire Tested: GWS-SA5C-735-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23012.2 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

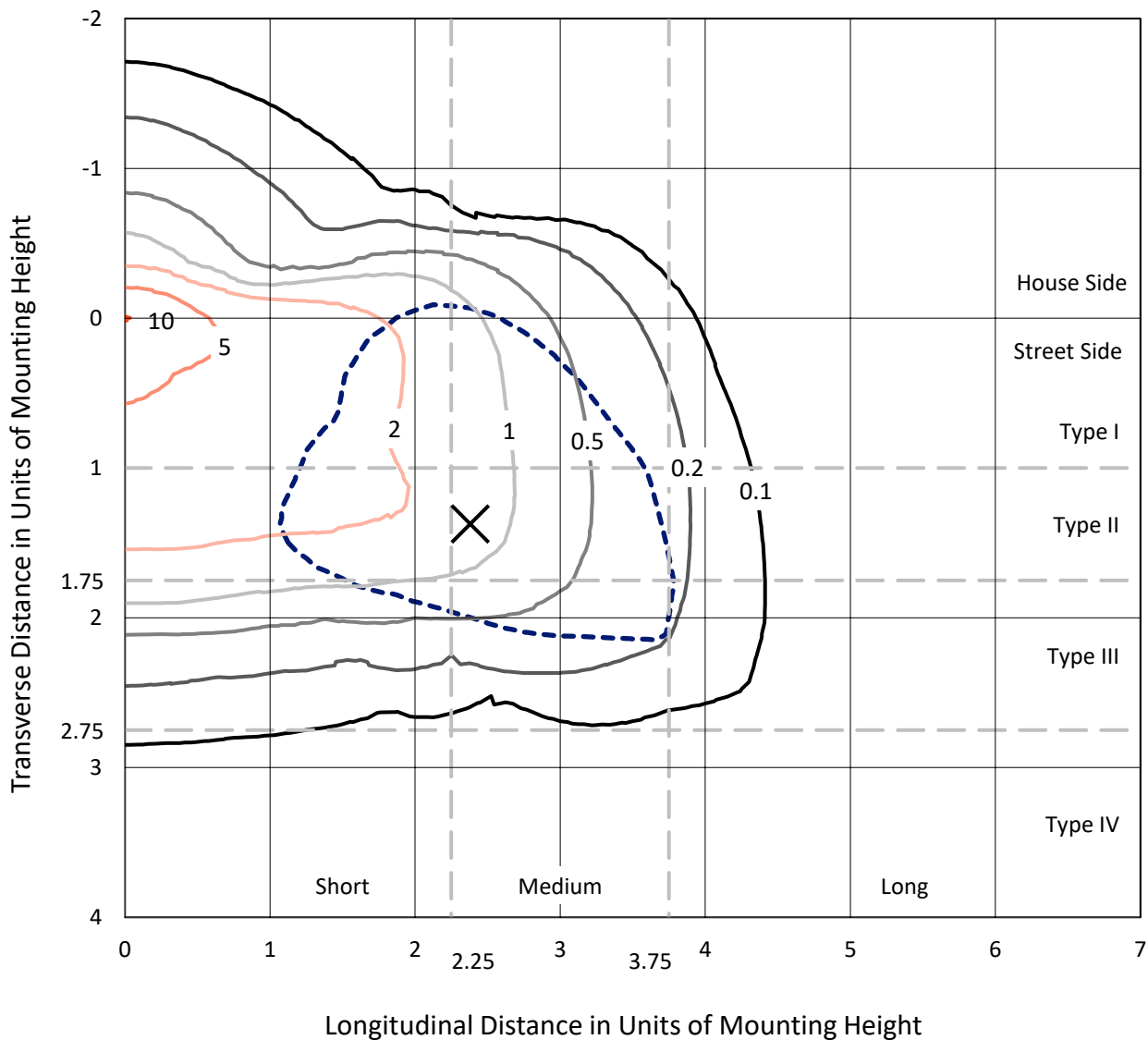
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

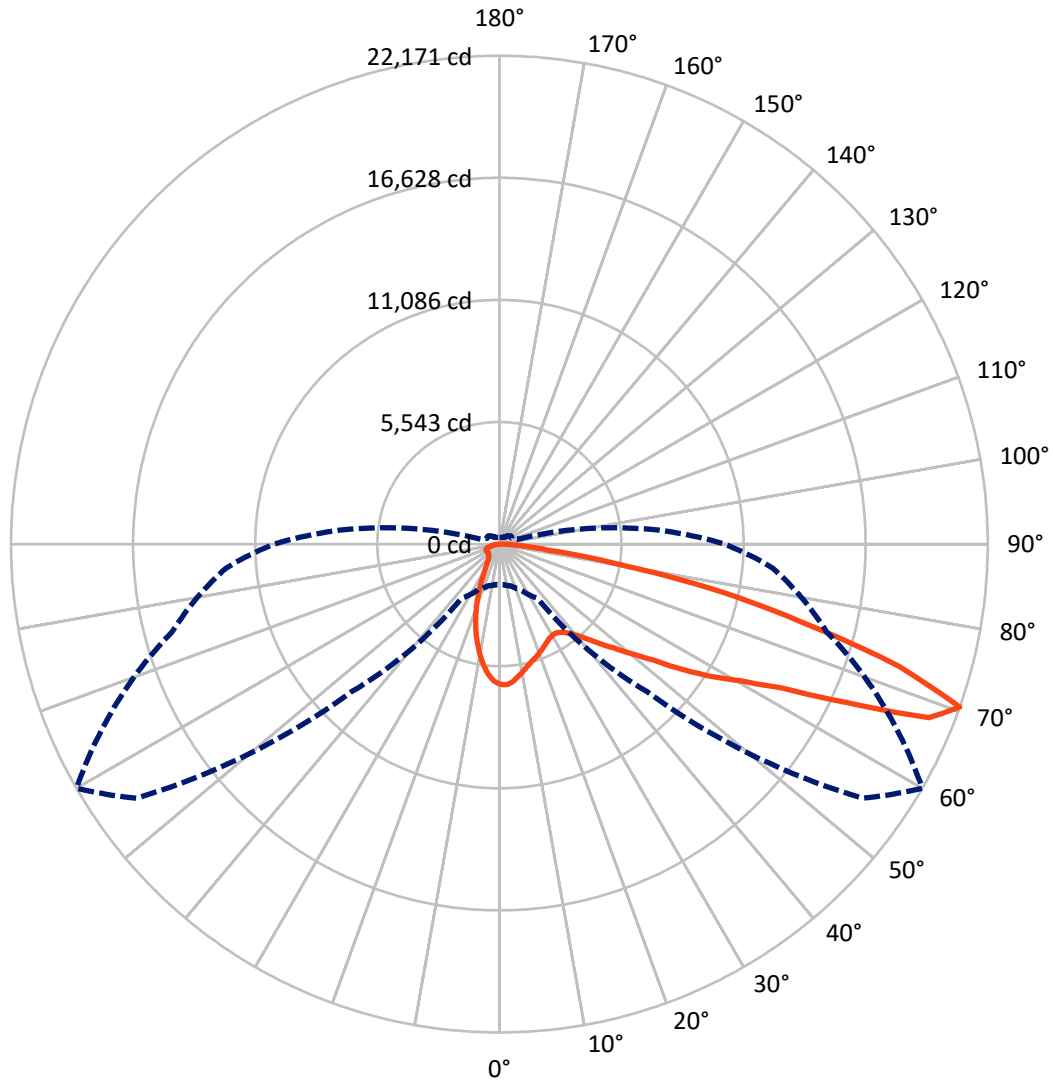
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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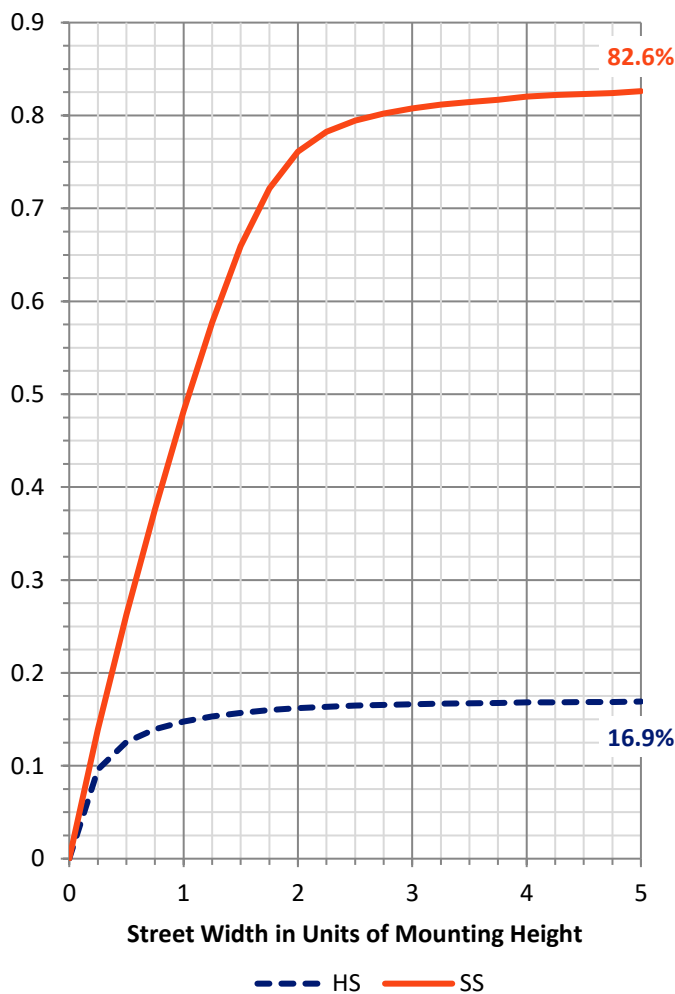
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3935.6	0.0	3935.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	19076.6	0.0	19076.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	23012.2	0.0	23012.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.9	2.4
10°-20°	1229.7	5.3
20°-30°	1574.8	6.8
30°-40°	2069.6	9.0
40°-50°	3002.7	13.0
50°-60°	4685.0	20.4
60°-70°	6133.5	26.7
70°-80°	3391.6	14.7
80°-90°	376.4	1.6
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°	23012.2	100.0
0°-180°	23012.2	100.0

Coefficient of Utilization



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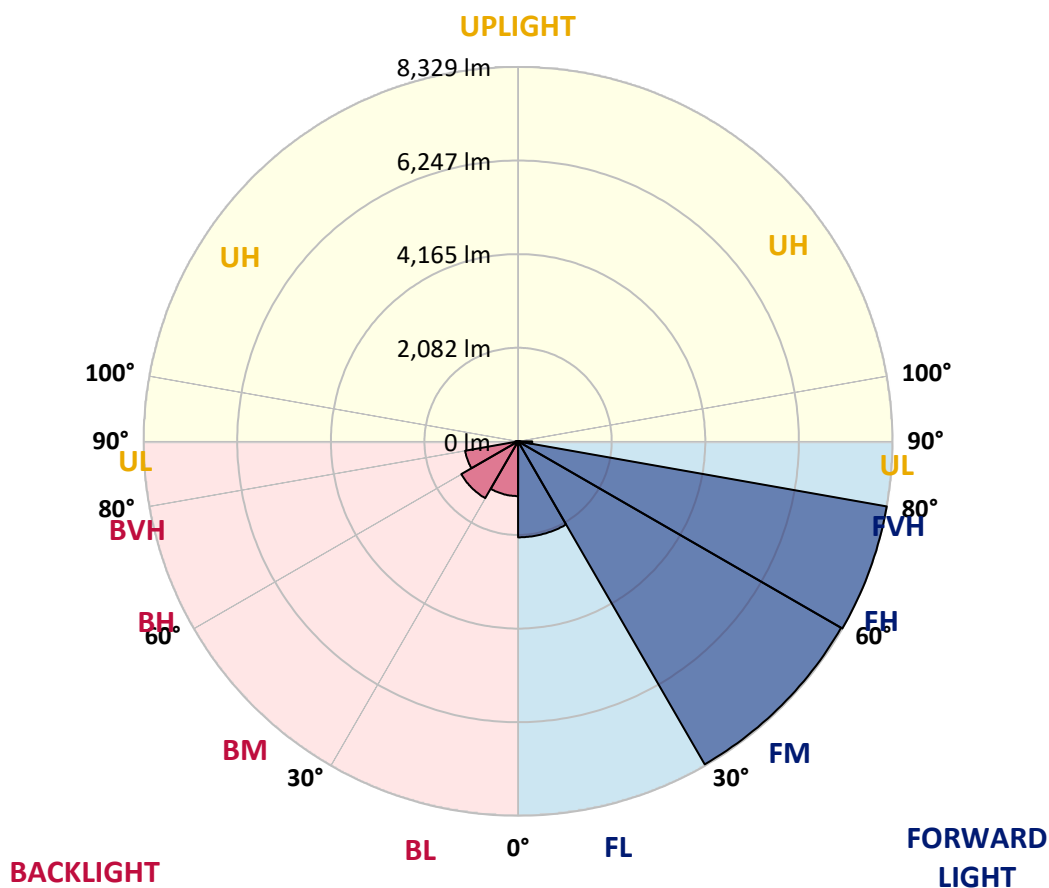
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2135.7	9.3			
FM (30°-60°)	8298.1	36.1			
FH (60°-80°)	8329.1	36.2			G4/12000
FVH (80°-90°)	313.6	1.4			G3/500
BL (0°-30°)	1217.6	5.3	B3/2500		
BM (30°-60°)	1459.2	6.3	B2/2500		
BH (60°-80°)	1196.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	62.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6367.8	6367.8	6367.8	6367.8	6367.8	6367.8	6367.8	6367.8	6367.8	6367.8	6367.8
2.5°	6278.5	6285.3	6303.8	6330.7	6357.7	6371.1	6404.8	6394.7	6388.0	6374.5	6357.7
5°	6000.7	6014.2	6031.0	6083.2	6142.2	6189.3	6265.1	6273.5	6276.9	6283.6	6256.6
7.5°	5647.1	5650.5	5690.9	5760.0	5837.4	5918.2	6044.5	6079.9	6110.2	6143.8	6122.0
10°	5256.5	5264.9	5295.3	5394.6	5527.6	5647.1	5817.2	5876.1	5940.1	6014.2	5983.9
12.5°	4936.6	4938.3	4987.1	5093.2	5238.0	5399.6	5611.8	5682.5	5766.7	5882.9	5855.9
15°	4682.4	4682.4	4727.8	4818.8	4985.5	5175.7	5428.3	5519.2	5633.7	5790.3	5743.1
17.5°	4480.3	4482.0	4510.6	4606.6	4754.8	4965.2	5264.9	5387.9	5514.1	5721.2	5650.5
20°	4374.3	4365.8	4370.9	4429.8	4556.1	4759.8	5101.6	5244.7	5414.8	5674.1	5566.3
22.5°	4369.2	4354.1	4332.2	4337.2	4411.3	4579.7	4926.5	5099.9	5313.8	5635.4	5480.5
25°	4455.1	4438.2	4399.5	4355.7	4349.0	4450.0	4761.5	4958.5	5209.4	5618.5	5398.0
27.5°	4599.9	4588.1	4537.6	4471.9	4402.9	4399.5	4636.9	4842.3	5133.6	5635.4	5339.0
30°	4791.8	4771.6	4739.6	4655.4	4551.1	4443.3	4588.1	4780.0	5083.1	5689.2	5313.8
32.5°	5009.0	4997.2	4966.9	4882.7	4771.6	4599.9	4626.8	4793.5	5083.1	5783.5	5318.8
35°	5239.7	5238.0	5238.0	5182.4	5059.5	4845.7	4780.0	4908.0	5160.6	5935.1	5372.7
37.5°	5463.6	5461.9	5515.8	5536.0	5396.3	5165.6	5041.0	5137.0	5330.6	6159.0	5505.7
40°	5645.5	5652.2	5770.1	5871.1	5793.6	5579.8	5404.7	5453.5	5606.7	6477.2	5738.1
42.5°	5829.0	5847.5	6024.3	6202.8	6233.1	6047.9	5871.1	5899.7	6002.4	6898.1	6084.9
45°	6029.3	6037.8	6285.3	6534.5	6680.9	6571.5	6426.7	6465.4	6489.0	7418.4	6601.8
47.5°	6223.0	6244.9	6564.8	6906.6	7184.4	7174.3	7093.5	7081.7	7086.7	8051.5	7213.0
50°	6487.3	6519.3	6894.8	7307.3	7714.7	7901.6	7925.2	7836.0	7798.9	8755.3	7974.0
52.5°	6989.1	6989.1	7325.8	7731.6	8278.8	8741.8	8900.1	8753.6	8635.7	9499.5	8782.2
55°	7617.1	7644.0	7911.7	8240.1	8933.7	9625.7	10161.2	9999.5	9666.2	10309.3	9629.1
57.5°	7896.6	7930.3	8354.5	8864.7	9790.7	10630.9	11373.4	11316.2	10829.6	11151.2	10508.0
60°	7391.5	7462.2	8046.4	8901.8	10566.9	12252.3	12776.0	12609.3	11913.9	12035.1	11461.0
62.5°	6165.7	6243.2	6891.4	8085.2	10459.2	14005.1	14986.7	14372.1	13267.6	13151.4	12730.5
65°	3678.9	3675.5	4455.1	6037.8	9130.7	14491.7	18485.4	17338.8	15358.8	14683.6	14037.1
67.5°	2338.7	2333.6	2496.9	3199.0	6076.5	13299.6	20734.8	21032.8	18199.2	15810.0	14144.8
70°	1845.3	1843.7	1961.5	2281.4	3005.4	9464.1	20108.5	22171.0	19914.9	15380.6	12454.4
72.5°	1345.3	1348.6	1530.5	1911.0	2318.5	4751.4	16283.1	18970.3	18317.0	13577.4	10110.7
75°	966.4	971.5	1080.9	1463.1	2138.3	2598.0	10827.9	14264.4	13936.0	10883.5	6955.4
77.5°	614.6	621.3	717.3	1025.4	1727.5	2097.9	6564.8	10070.2	9272.2	6132.1	2473.4
80°	375.5	397.4	478.2	764.4	1380.6	1574.3	3281.5	5305.4	4643.7	1682.0	831.8
82.5°	193.6	210.5	287.9	473.1	951.3	1382.3	1857.1	2229.2	1437.9	703.8	442.8
85°	60.6	70.7	101.0	191.9	452.9	857.0	1229.1	1107.9	660.0	331.7	205.4
87.5°	15.2	15.2	16.8	16.8	18.5	38.7	237.4	250.9	175.1	104.4	84.2
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°	6367.8	6367.8	6367.8	6367.8	6367.8	6367.8	6367.8	6367.8	6367.8	6367.8	6367.8
2.5°	6324.0	6283.6	6266.8	6265.1	6223.0	6162.4	6122.0	6093.3	6076.5	6073.1	6073.1
5°	6211.2	6159.0	6090.0	6037.8	5925.0	5810.5	5714.5	5660.6	5598.3	5589.9	5588.2
7.5°	6061.3	5985.6	5854.2	5707.8	5510.8	5320.5	5158.9	5049.4	4940.0	4919.8	4913.1
10°	5899.7	5797.0	5573.1	5315.5	5020.8	4736.3	4488.8	4295.1	4167.2	4076.3	4059.4
12.5°	5739.8	5603.4	5275.0	4891.2	4487.1	4098.1	3726.0	3409.5	3180.5	3047.5	3023.9
15°	5589.9	5399.6	4950.1	4460.1	3934.8	3402.8	2875.8	2464.9	2143.4	2028.9	2001.9
17.5°	5453.5	5216.1	4635.2	4014.0	3359.0	2663.6	2064.2	1698.9	1510.3	1453.0	1439.6
20°	5317.1	5027.5	4315.3	3544.2	2747.8	1968.3	1508.6	1336.9	1266.1	1244.3	1237.5
22.5°	5170.7	4820.4	3966.8	3081.2	2129.9	1473.2	1234.2	1158.4	1136.5	1138.2	1136.5
25°	5024.2	4610.0	3601.4	2577.8	1586.1	1195.4	1077.6	1048.9	1054.0	1069.2	1072.5
27.5°	4902.9	4423.1	3242.8	2025.5	1239.2	1028.7	973.2	971.5	990.0	1010.2	1013.6
30°	4815.4	4256.4	2889.2	1557.4	1020.3	914.3	892.4	902.5	924.4	939.5	944.6
32.5°	4753.1	4113.3	2512.1	1224.1	894.0	833.4	823.3	833.4	846.9	862.1	865.4
35°	4731.2	4008.9	2141.7	998.4	808.2	774.5	767.8	772.8	779.6	788.0	791.3
37.5°	4780.0	3956.7	1754.4	868.8	756.0	735.8	725.7	722.3	724.0	727.4	729.0
40°	4924.8	3980.3	1437.9	793.0	722.3	703.8	687.0	680.2	678.5	681.9	680.2
42.5°	5174.0	4079.6	1208.9	749.2	695.4	668.4	649.9	643.2	643.2	651.6	651.6
45°	5539.4	4274.9	1043.9	717.3	671.8	638.1	617.9	614.6	621.3	634.8	636.4
47.5°	6074.8	4561.2	944.6	693.7	649.9	611.2	591.0	589.3	602.8	624.7	626.3
50°	6709.6	4973.7	890.7	676.8	634.8	589.3	569.1	570.8	585.9	609.5	614.6
52.5°	7474.0	5536.0	894.0	670.1	626.3	575.8	555.6	552.3	567.4	591.0	596.0
55°	8263.6	6219.6	959.7	671.8	614.6	569.1	542.2	530.4	543.8	560.7	562.4
57.5°	9132.4	6990.7	1123.0	668.4	599.4	562.4	530.4	503.4	511.8	521.9	527.0
60°	10112.3	7898.3	1474.9	675.2	592.7	547.2	506.8	471.4	469.8	476.5	478.2
62.5°	11422.3	9132.4	1870.6	687.0	607.8	528.7	471.4	434.4	427.7	431.0	432.7
65°	12424.1	9721.7	1746.0	676.8	639.8	515.2	437.8	399.0	385.6	382.2	382.2
67.5°	12016.6	8942.2	1215.6	649.9	655.0	516.9	410.8	362.0	345.2	336.7	335.1
70°	10225.1	7263.5	845.2	623.0	638.1	513.5	382.2	331.7	309.8	298.0	296.3
72.5°	8078.4	5546.1	683.6	569.1	579.2	463.0	340.1	298.0	279.5	264.3	264.3
75°	5199.3	3384.2	570.8	506.8	473.1	360.3	294.6	266.0	247.5	232.4	232.4
77.5°	1749.4	1256.0	442.8	429.3	353.6	271.1	247.5	229.0	213.8	200.4	198.7
80°	710.5	596.0	325.0	325.0	247.5	207.1	193.6	185.2	175.1	158.3	158.3
82.5°	412.5	362.0	227.3	197.0	165.0	143.1	134.7	126.3	126.3	114.5	114.5
85°	198.7	200.4	136.4	121.2	94.3	82.5	79.1	74.1	72.4	65.7	64.0
87.5°	107.8	109.4	69.0	53.9	37.0	32.0	26.9	25.3	23.6	21.9	21.9
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)