

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: P643923

Luminaire Tested: GWS-SA6F-830-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-830-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37970.8 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

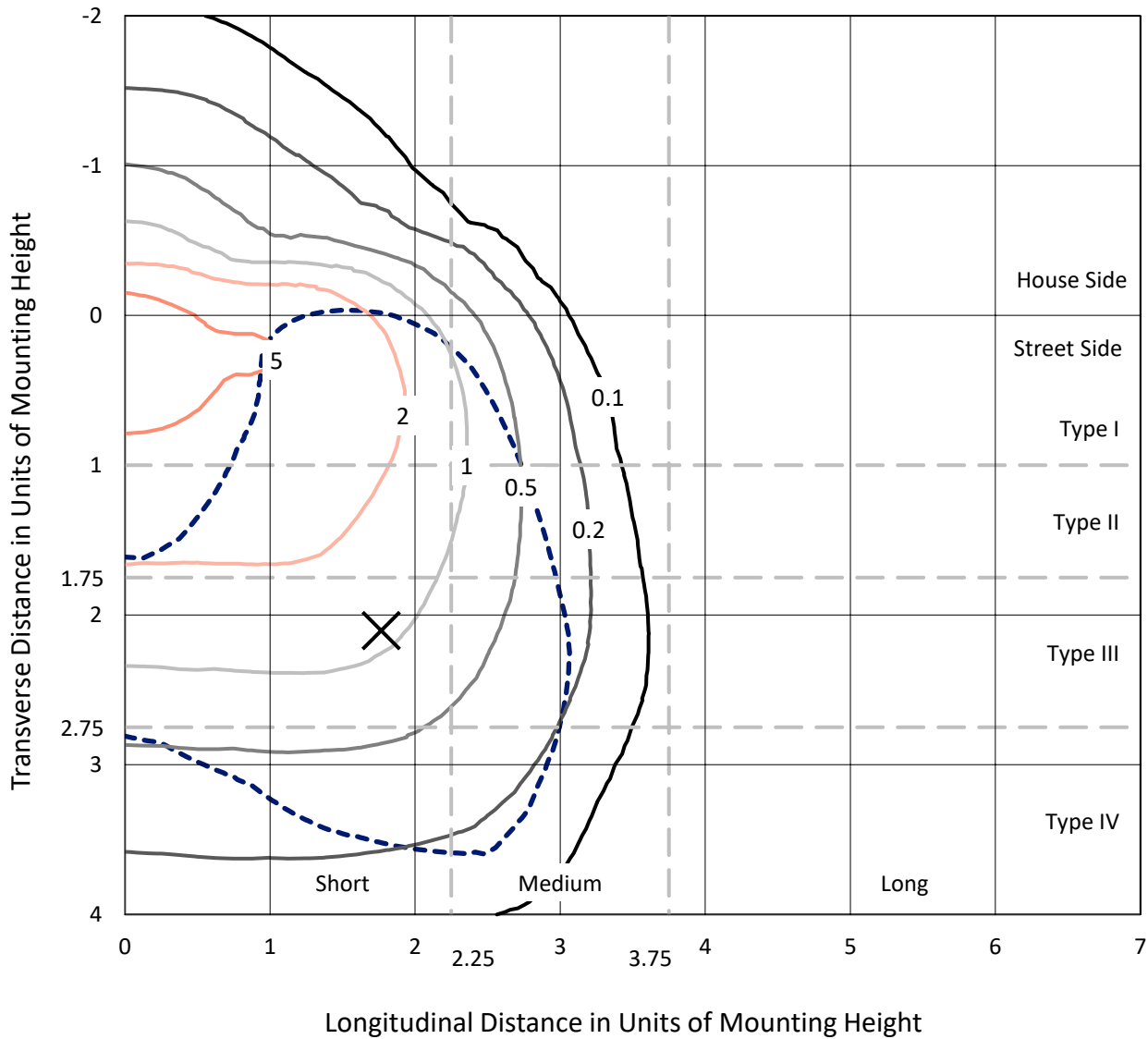
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

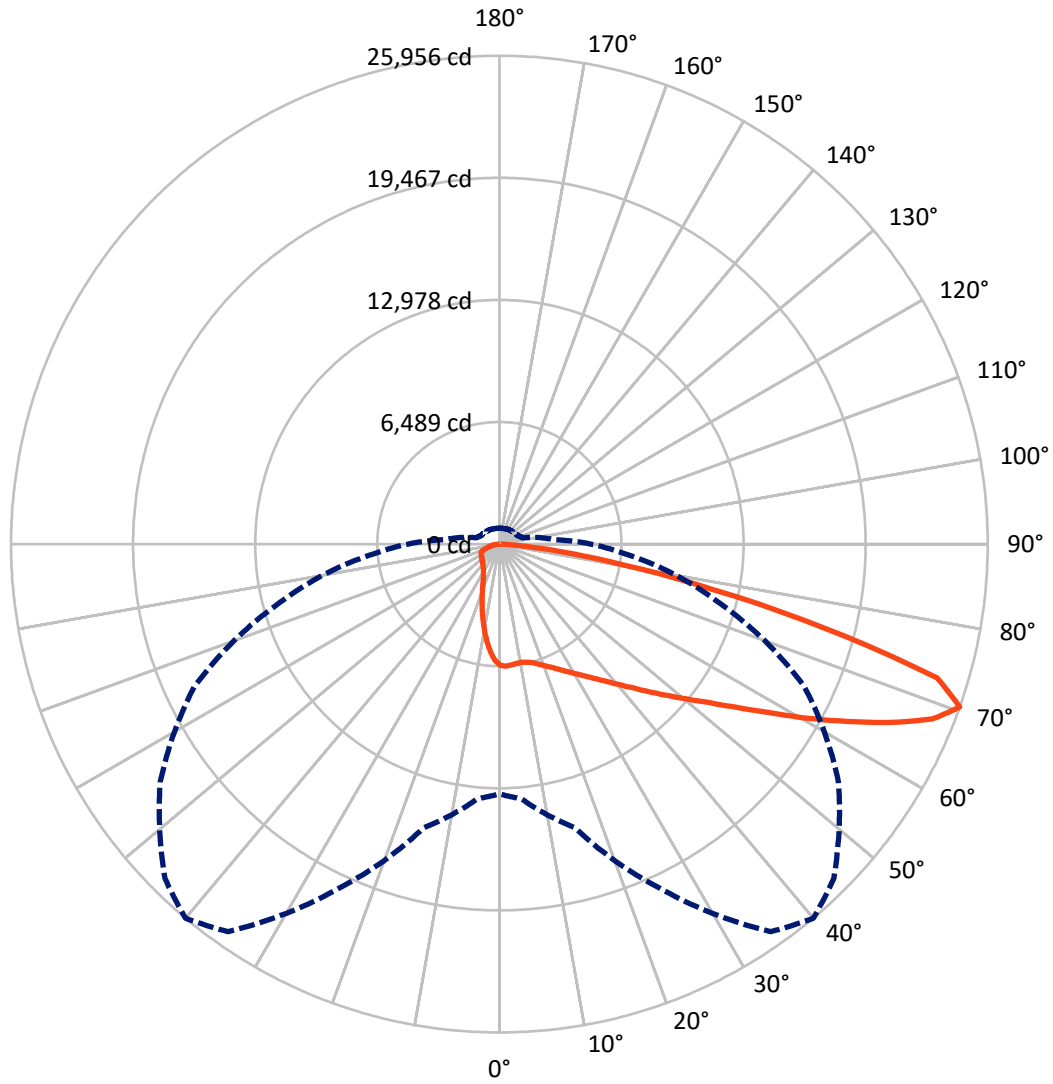
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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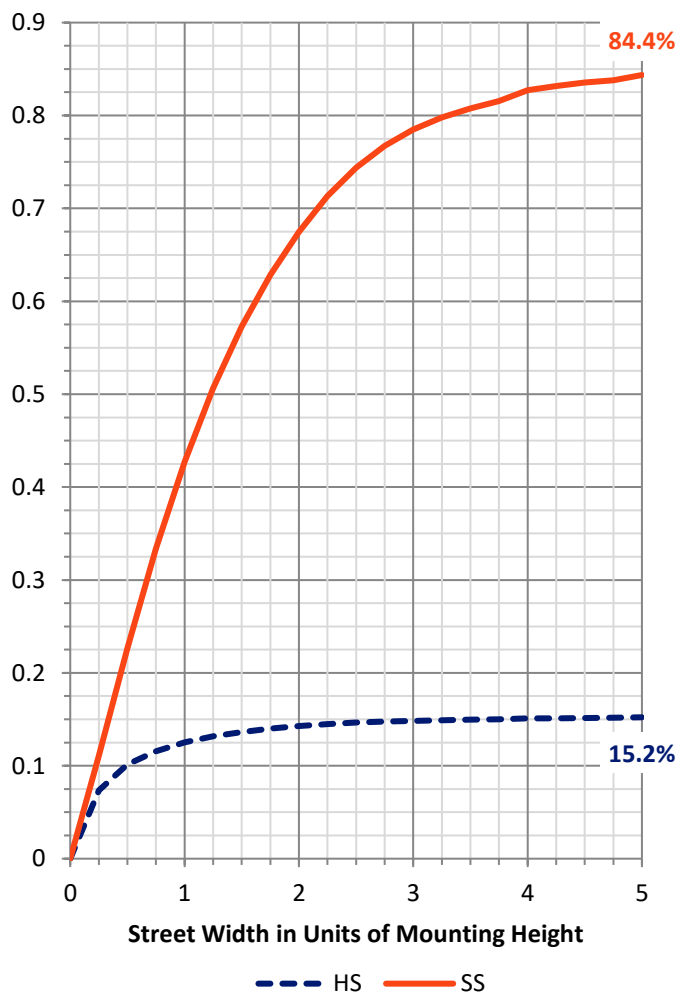
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5848.5	0.0	5848.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	32122.3	0.0	32122.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	37970.8	0.0	37970.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.6	1.5
10°-20°	1484.8	3.9
20°-30°	2331.3	6.1
30°-40°	3505.2	9.2
40°-50°	5410.4	14.2
50°-60°	8034.9	21.2
60°-70°	10127.8	26.7
70°-80°	5856.8	15.4
80°-90°	650.0	1.7
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°	37970.8	100.0
0°-180°	37970.8	100.0

Coefficient of Utilization



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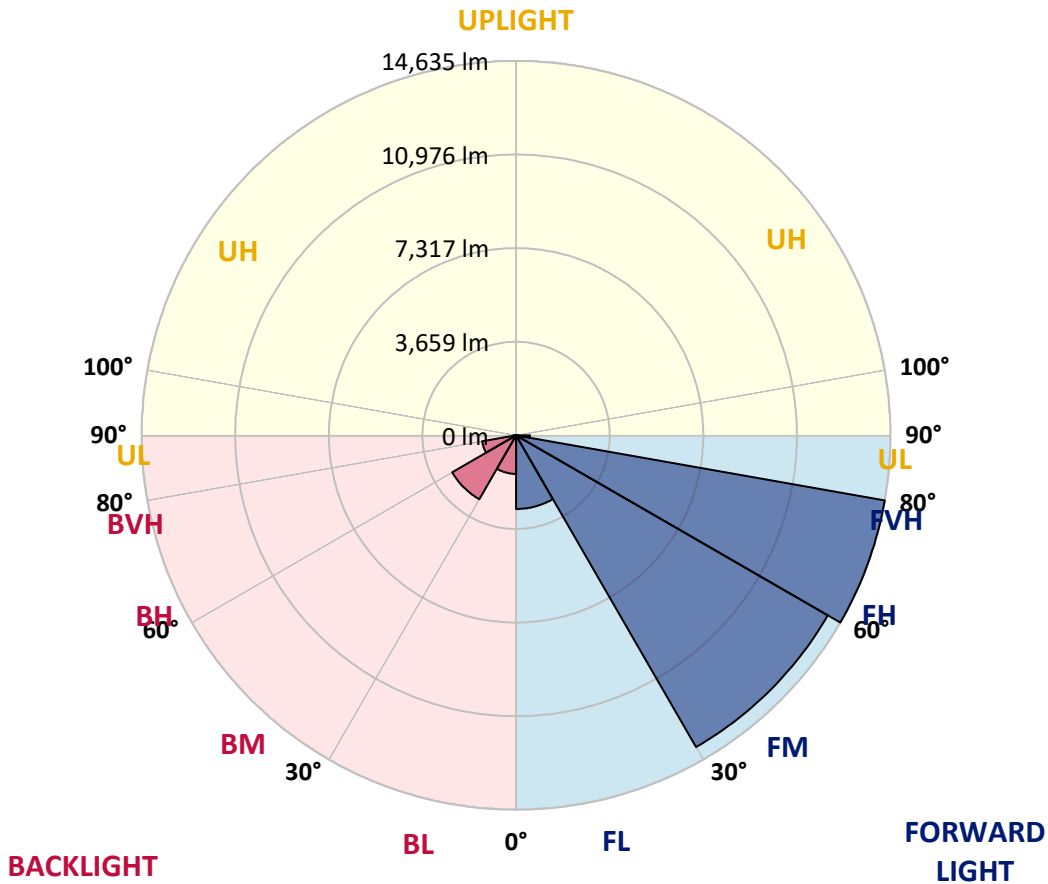
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2878.5	7.6			
FM (30°-60°)	14067.7	37.0			
FH (60°-80°)	14634.8	38.5			G5
FVH (80°-90°)	541.3	1.4			G4/750
BL (0°-30°)	1507.2	4.0	B3/2500		
BM (30°-60°)	2882.8	7.6	B3/5000		
BH (60°-80°)	1349.8	3.6	B3/2500		G3/2500
BVH (80°-90°)	108.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6447.9	6447.9	6447.9	6447.9	6447.9	6447.9	6447.9	6447.9	6447.9	6447.9	6447.9
2.5°	6487.6	6498.9	6507.4	6518.7	6513.1	6496.1	6510.2	6510.2	6479.1	6445.0	6413.9
5°	6496.1	6510.2	6507.4	6504.6	6481.9	6453.5	6453.5	6436.5	6382.7	6328.8	6277.8
7.5°	6479.1	6476.2	6473.4	6464.9	6439.4	6408.2	6402.5	6368.5	6297.7	6224.0	6150.3
10°	6402.5	6399.7	6408.2	6428.0	6422.4	6394.0	6394.0	6362.9	6280.7	6190.0	6093.6
12.5°	6340.2	6340.2	6374.2	6428.0	6447.9	6436.5	6439.4	6416.7	6323.2	6215.5	6102.1
15°	6348.7	6351.5	6425.2	6513.1	6549.9	6541.4	6544.2	6518.7	6413.9	6306.2	6153.1
17.5°	6405.4	6419.5	6547.1	6668.9	6717.1	6705.8	6686.0	6643.4	6524.4	6402.5	6215.5
20°	6524.4	6547.1	6711.5	6864.5	6921.2	6895.7	6861.7	6776.6	6646.3	6513.1	6283.5
22.5°	6759.6	6773.8	6955.2	7105.4	7150.8	7119.6	7051.6	6929.7	6779.5	6640.6	6365.7
25°	7091.2	7108.3	7281.1	7420.0	7408.7	7371.8	7278.3	7128.1	6949.5	6802.2	6484.7
27.5°	7485.2	7513.5	7683.6	7794.1	7720.4	7666.6	7561.7	7380.3	7179.1	7045.9	6666.1
30°	7916.0	7927.3	8071.9	8182.4	8069.1	7995.4	7867.8	7672.3	7490.9	7391.7	6938.2
32.5°	8332.6	8344.0	8468.7	8531.0	8412.0	8358.1	8247.6	8040.7	7913.2	7859.3	7343.5
35°	8771.9	8769.1	8871.1	8925.0	8803.1	8780.4	8667.1	8508.4	8485.7	8556.5	7935.8
37.5°	9211.3	9185.7	9239.6	9310.5	9242.4	9265.1	9191.4	9137.6	9225.4	9409.6	8723.8
40°	9562.7	9562.7	9619.4	9707.2	9729.9	9829.1	9786.6	9857.5	10140.9	10580.2	9698.7
42.5°	9874.5	9877.3	9996.3	10132.4	10296.8	10449.8	10483.8	10668.0	11254.7	11943.5	10923.1
45°	10200.4	10203.2	10364.8	10563.2	10911.8	11203.7	11271.7	11685.5	12524.5	13363.4	12252.4
47.5°	10577.4	10546.2	10770.1	11101.7	11597.7	12017.1	12192.9	12779.6	13839.6	14871.2	13505.1
50°	11002.5	10937.3	11186.7	11759.2	12371.4	12946.8	13241.5	13913.2	15251.0	16262.8	14684.2
52.5°	11481.5	11444.6	11705.4	12402.6	13337.9	14001.1	14400.7	15282.2	16622.8	17648.8	15619.5
55°	12076.7	11988.8	12365.8	13252.9	14471.6	15316.2	15789.5	16636.9	18122.1	18907.2	16333.7
57.5°	12728.5	12632.2	13136.7	14315.7	15945.4	16872.2	17464.5	18161.8	19533.5	19870.8	16753.1
60°	13431.4	13400.2	13998.3	15562.8	17702.6	18779.6	19207.6	19839.6	20760.7	20429.1	16648.3
62.5°	14074.8	14063.5	14933.6	16914.7	19564.7	20749.4	21089.5	21256.7	21645.0	20392.3	15815.0
65°	14752.2	14848.5	16024.7	18482.0	21698.9	22860.9	23002.6	22577.5	21942.6	19425.8	14108.8
67.5°	14837.2	15024.3	16710.6	19950.2	23722.5	24819.4	24706.0	23079.1	21064.0	16736.1	11059.2
70°	13269.9	13595.8	15616.6	20174.1	25148.1	25955.9	25136.8	21999.3	17875.5	12124.8	6955.2
72.5°	11087.5	11368.1	13153.7	17203.8	23308.7	24337.5	23229.4	18620.9	12632.2	6955.2	3542.8
75°	8630.2	8956.2	10602.9	13675.2	17450.4	17861.3	17305.8	12986.4	6943.9	2868.2	1609.8
77.5°	5266.0	5501.2	6782.3	9265.1	12209.9	11594.8	9826.3	7281.1	3046.8	1374.6	994.8
80°	2329.7	2474.3	3341.6	4976.9	7054.4	6668.9	5257.5	3109.2	1666.5	872.9	694.4
82.5°	1249.9	1343.4	1646.7	1969.8	3097.8	3239.5	2627.3	1791.2	895.6	498.8	396.8
85°	549.8	603.7	748.2	714.2	1017.5	1000.5	1009.0	1230.1	428.0	229.6	257.9
87.5°	0.0	0.0	0.0	0.0	2.8	2.8	31.2	164.4	42.5	68.0	59.5
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°	6447.9	6447.9	6447.9	6447.9	6447.9	6447.9	6447.9	6447.9	6447.9	6447.9	6447.9
2.5°	6379.9	6328.8	6314.7	6297.7	6266.5	6212.6	6173.0	6127.6	6107.8	6085.1	6087.9
5°	6221.1	6158.8	6099.3	6022.7	5926.4	5818.7	5745.0	5660.0	5614.6	5572.1	5583.4
7.5°	6085.1	5988.7	5866.9	5705.3	5532.4	5339.7	5183.8	5061.9	4979.7	4923.1	4951.4
10°	6000.1	5886.7	5674.1	5410.5	5118.6	4823.9	4600.0	4390.2	4259.9	4157.8	4152.1
12.5°	5983.1	5835.7	5526.8	5144.1	4721.8	4327.9	3999.1	3715.7	3542.8	3415.2	3463.4
15°	6000.1	5813.0	5399.2	4897.6	4364.7	3831.9	3423.8	3097.8	2890.9	2774.7	2766.2
17.5°	6019.9	5790.3	5254.7	4631.1	3990.6	3381.2	2907.9	2562.1	2349.6	2233.4	2236.2
20°	6036.9	5756.3	5084.6	4339.2	3610.8	2961.8	2471.5	2142.7	1952.8	1867.8	1881.9
22.5°	6065.3	5722.3	4903.2	4027.4	3222.5	2556.5	2125.7	1859.3	1745.9	1689.2	1692.0
25°	6119.1	5702.5	4716.2	3687.3	2839.9	2233.4	1887.6	1709.0	1638.2	1604.2	1601.3
27.5°	6229.6	5719.5	4520.6	3358.6	2494.1	1986.8	1734.5	1618.3	1570.2	1547.5	1544.7
30°	6413.9	5787.5	4350.5	3024.1	2196.5	1794.1	1629.7	1558.8	1530.5	1510.6	1507.8
32.5°	6694.5	5915.0	4166.3	2712.4	1955.6	1652.4	1547.5	1510.6	1490.8	1479.5	1479.5
35°	7119.6	6147.4	3984.9	2440.3	1768.6	1541.8	1482.3	1468.1	1451.1	1445.5	1451.1
37.5°	7731.8	6518.7	3820.5	2202.2	1635.4	1456.8	1411.4	1417.1	1402.9	1411.4	1420.0
40°	8508.4	7014.7	3681.7	2006.6	1536.2	1394.4	1349.1	1368.9	1360.4	1368.9	1383.1
42.5°	9491.8	7629.8	3576.8	1853.6	1465.3	1343.4	1300.9	1320.8	1315.1	1326.4	1340.6
45°	10588.7	8440.3	3528.6	1745.9	1414.3	1306.6	1261.2	1275.4	1269.7	1278.2	1292.4
47.5°	11640.2	9177.2	3571.1	1683.5	1371.8	1275.4	1227.2	1232.9	1230.1	1227.2	1235.7
50°	12547.1	9763.9	3693.0	1663.7	1343.4	1244.2	1198.9	1201.7	1193.2	1176.2	1181.9
52.5°	13286.9	10234.4	3766.7	1663.7	1329.3	1210.2	1167.7	1170.5	1153.5	1130.9	1133.7
55°	13774.4	10424.3	3707.2	1660.9	1323.6	1181.9	1136.5	1139.4	1122.4	1094.0	1096.8
57.5°	13913.2	10240.1	3457.8	1629.7	1317.9	1159.2	1105.4	1111.0	1099.7	1068.5	1068.5
60°	13525.0	9565.5	3001.5	1558.8	1303.7	1145.0	1082.7	1091.2	1085.5	1054.3	1054.3
62.5°	12507.5	8366.7	2457.3	1451.1	1264.1	1128.0	1062.8	1079.8	1094.0	1077.0	1074.2
65°	10602.9	6703.0	1998.1	1332.1	1213.1	1099.7	1034.5	1077.0	1108.2	1130.9	1130.9
67.5°	7955.7	4798.4	1629.7	1207.4	1136.5	1043.0	997.6	1037.3	1060.0	1074.2	1082.7
70°	4849.4	2822.9	1283.9	1062.8	1026.0	958.0	924.0	884.3	853.1	847.4	850.3
72.5°	2372.3	1615.5	1043.0	904.1	875.8	813.4	736.9	719.9	705.7	697.2	694.4
75°	1306.6	1125.2	861.6	751.1	700.1	623.5	606.5	578.2	572.5	561.2	564.0
77.5°	924.0	887.1	711.4	609.4	532.8	493.2	501.7	481.8	481.8	473.3	470.5
80°	694.4	697.2	547.0	445.0	394.0	379.8	388.3	388.3	382.6	379.8	377.0
82.5°	439.3	496.0	368.5	286.3	280.6	283.4	280.6	277.8	283.4	274.9	272.1
85°	303.3	357.1	223.9	170.1	170.1	167.2	172.9	170.1	175.7	167.2	167.2
87.5°	68.0	158.7	82.2	51.0	53.9	51.0	53.9	56.7	62.4	65.2	65.2
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)