

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: P638829

Luminaire Tested: GWS-SA4F-750-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-750-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

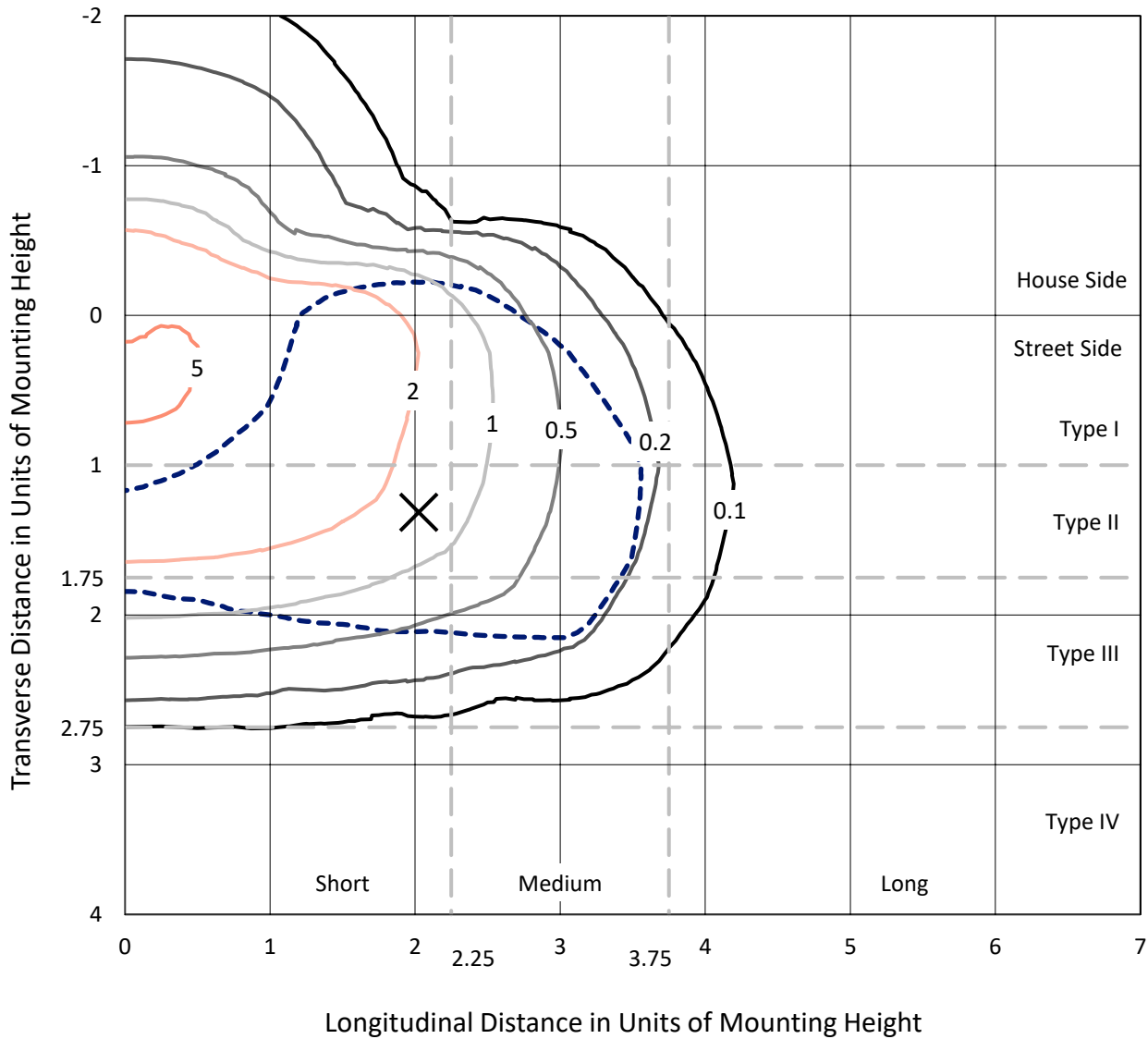
Lumens per Lamp: N/A  
Luminaire Lumens: 34828 lumens  
Efficiency: N/A  
Efficacy: 154.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P638829  
 CATALOG NUMBER: GWS-SA4F-750-U-T3-W

### Iso-Footcandle Lines of Horizontal Illumination

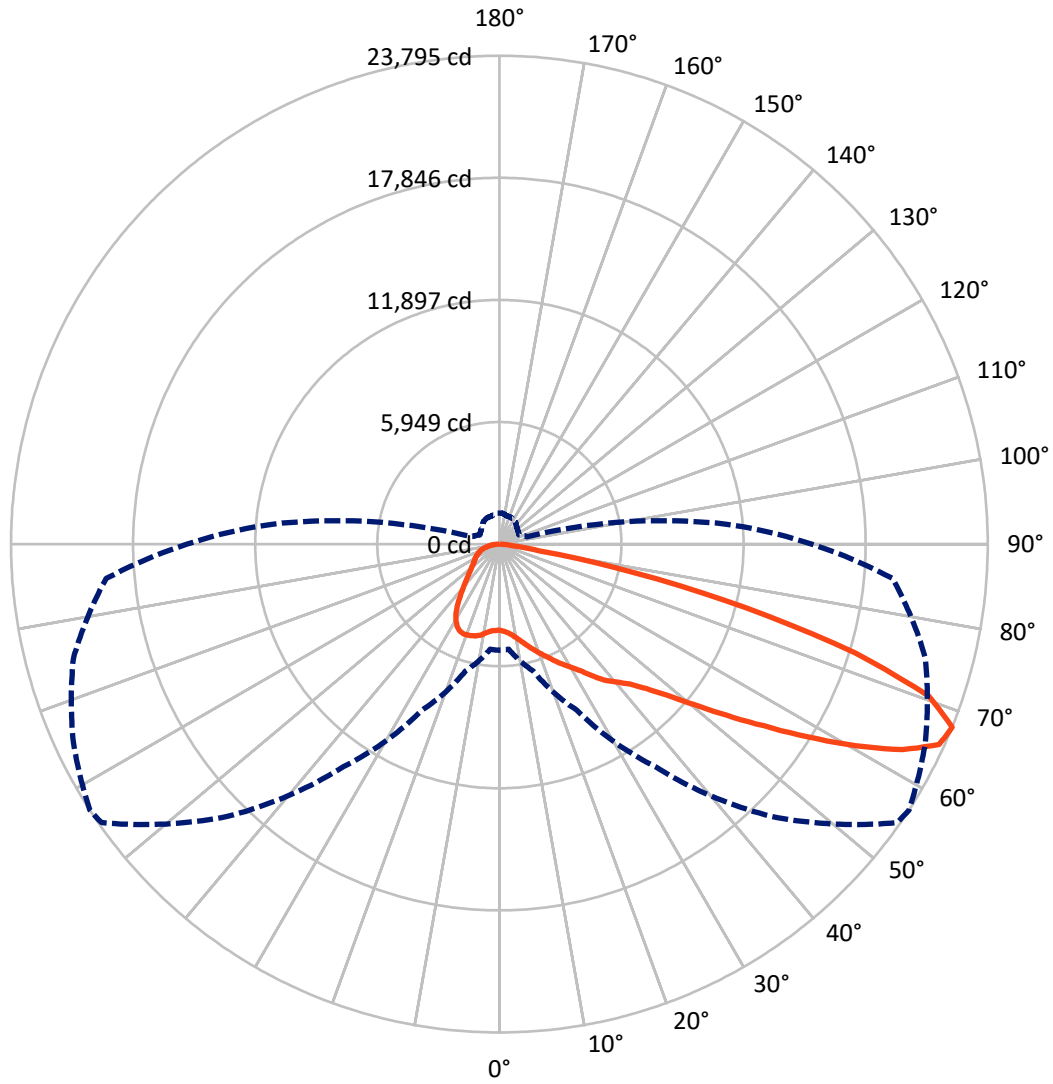
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P638829  
CATALOG NUMBER: GWS-SA4F-750-U-T3-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P638829

CATALOG NUMBER: GWS-SA4F-750-U-T3-W

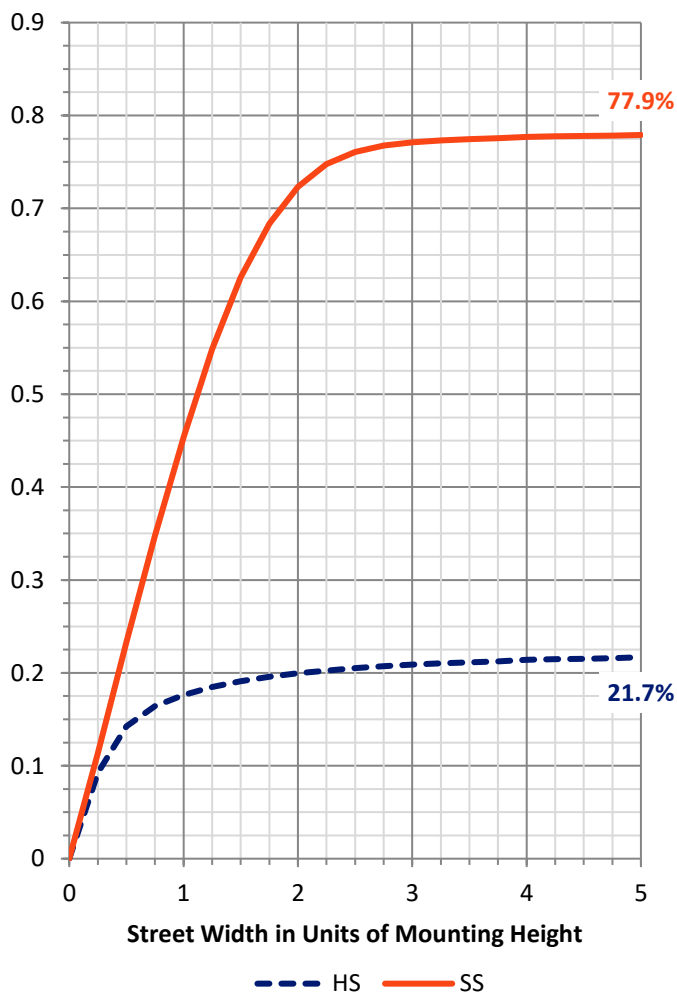
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7657.4	0.0	7657.4
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	27170.6	0.0	27170.6
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	34828.0	0.0	34828.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.2	1.2
10°-20°	1377.9	4.0
20°-30°	2456.5	7.1
30°-40°	3571.4	10.3
40°-50°	5169.0	14.8
50°-60°	8089.3	23.2
60°-70°	9436.7	27.1
70°-80°	3939.3	11.3
80°-90°	371.7	1.1
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°	34828.0	100.0
0°-180°	34828.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638829

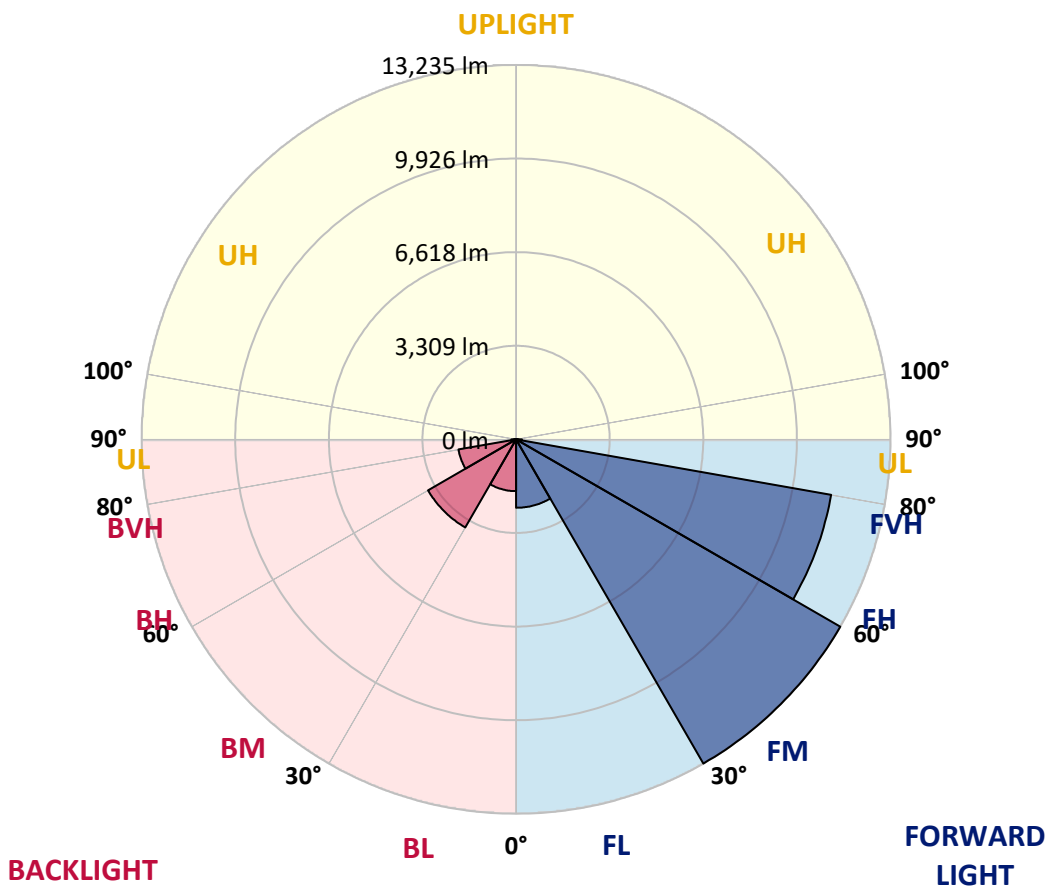
CATALOG NUMBER: GWS-SA4F-750-U-T3-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2419.1	6.9			
FM (30°-60°)	13235.1	38.0			
FH (60°-80°)	11309.2	32.5			G4/12000
FVH (80°-90°)	207.1	0.6			G2/225
BL (0°-30°)	1831.4	5.3	B3/2500		
BM (30°-60°)	3594.6	10.3	B3/5000		
BH (60°-80°)	2066.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	164.6	0.5			G2/225
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 Short





REPORT NUMBER: P638829

CATALOG NUMBER: GWS-SA4F-750-U-T3-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4196.5	4196.5	4196.5	4196.5	4196.5	4196.5	4196.5	4196.5	4196.5	4196.5	4196.5
2.5°	4256.4	4251.4	4248.9	4263.9	4258.9	4256.4	4256.4	4253.9	4248.9	4229.0	4201.5
5°	4373.7	4363.7	4353.7	4366.2	4356.2	4346.2	4343.7	4338.8	4321.3	4291.3	4248.9
7.5°	4495.9	4486.0	4488.4	4495.9	4488.4	4483.5	4476.0	4471.0	4443.5	4396.1	4338.8
10°	4668.1	4668.1	4673.1	4680.6	4683.1	4675.6	4660.6	4653.1	4620.7	4560.8	4481.0
12.5°	4917.6	4912.6	4912.6	4907.6	4915.1	4907.6	4892.6	4880.2	4840.2	4762.9	4648.1
15°	5246.9	5227.0	5209.5	5177.1	5167.1	5139.6	5144.6	5137.1	5099.7	4994.9	4850.2
17.5°	5598.7	5596.2	5568.8	5503.9	5439.0	5394.1	5404.1	5401.6	5381.6	5239.4	5054.8
20°	5908.1	5920.6	5895.6	5845.7	5758.4	5673.6	5668.6	5681.0	5656.1	5513.9	5256.9
22.5°	6254.9	6244.9	6220.0	6155.1	6090.2	6000.4	5970.5	5960.5	5950.5	5788.3	5464.0
25°	6584.2	6614.2	6581.7	6521.8	6422.0	6324.7	6299.8	6309.8	6282.3	6067.8	5686.0
27.5°	7000.9	7013.4	6993.4	6911.1	6826.2	6689.0	6641.6	6641.6	6631.6	6329.7	5860.7
30°	7445.0	7479.9	7445.0	7377.6	7290.3	7093.2	6990.9	6980.9	6951.0	6599.2	6065.3
32.5°	7891.6	7916.5	7891.6	7826.7	7726.9	7554.8	7407.6	7385.1	7345.2	6893.6	6274.8
35°	8288.3	8310.7	8305.7	8320.7	8238.4	8021.3	7931.5	7921.5	7816.7	7277.8	6559.3
37.5°	8722.4	8749.9	8712.4	8742.4	8709.9	8505.3	8477.9	8428.0	8278.3	7639.6	6858.7
40°	9216.4	9241.4	9181.5	9194.0	9156.5	9041.8	8902.0	8834.7	8612.6	8031.3	7330.2
42.5°	9745.3	9802.7	9830.2	9807.7	9720.4	9655.5	9411.0	9326.2	9141.6	8737.4	8106.2
45°	10511.3	10596.1	10636.1	10578.7	10541.2	10448.9	10149.5	10047.2	9949.9	9732.9	9189.0
47.5°	11337.1	11414.5	11541.7	11566.7	11596.6	11526.8	11105.1	11005.3	11022.8	10997.8	10521.3
50°	11995.8	12060.7	12347.6	12654.5	12909.0	12928.9	12390.0	12282.7	12377.5	12457.4	12125.5
52.5°	12474.8	12532.2	12911.5	13545.2	14121.5	14548.2	13966.8	13844.6	13921.9	14101.6	13949.4
55°	12864.1	12943.9	13340.6	14313.6	15478.8	16152.4	15780.7	15626.0	15593.6	15815.6	15902.9
57.5°	13068.6	13093.6	13650.0	14914.9	16474.3	17726.8	17888.9	17714.3	17404.9	17527.2	17981.2
60°	12602.1	12644.5	13405.5	15069.6	17260.2	19288.6	20102.0	19957.3	19298.6	19365.9	19867.4
62.5°	11312.2	11372.1	12287.7	14333.6	17325.1	20331.5	22145.3	22053.0	21169.8	20805.5	20955.2
65°	9074.2	9094.2	10042.2	12512.3	16035.2	20461.2	23570.0	23547.5	22477.2	21623.9	20982.7
67.5°	5174.6	5139.6	6407.1	8924.5	13233.3	18774.6	23662.3	23794.5	22901.3	21489.2	19236.2
70°	2243.0	2248.0	2831.8	4403.6	8565.2	15174.4	21978.2	22205.2	21673.8	19246.2	15304.1
72.5°	1037.9	1052.9	1304.9	1906.2	3657.6	9413.5	17921.4	18125.9	17669.4	15403.9	11135.0
75°	733.5	746.0	870.7	1092.8	1681.6	3667.6	11988.3	12417.5	12639.5	11521.8	7337.7
77.5°	556.4	573.8	636.2	758.5	1037.9	1299.9	5735.9	6758.9	8051.3	7168.0	3779.9
80°	354.3	354.3	421.6	506.5	633.7	676.1	1656.7	1963.5	3939.6	2954.0	1484.5
82.5°	239.5	247.0	286.9	321.9	364.3	384.2	711.1	758.5	1137.7	1005.5	611.3
85°	127.2	132.2	149.7	147.2	174.6	152.2	299.4	296.9	416.7	456.6	232.0
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	32.4	34.9	87.3	139.7	77.3
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: P638829  
 CATALOG NUMBER: GWS-SA4F-750-U-T3-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4196.5	4196.5	4196.5	4196.5	4196.5	4196.5	4196.5	4196.5	4196.5	4196.5	4196.5
2.5°	4216.5	4186.6	4201.5	4196.5	4211.5	4211.5	4184.1	4176.6	4179.1	4149.1	4139.2
5°	4253.9	4219.0	4226.5	4216.5	4231.5	4243.9	4231.5	4231.5	4246.4	4224.0	4211.5
7.5°	4338.8	4298.8	4298.8	4286.4	4303.8	4313.8	4303.8	4318.8	4346.2	4323.8	4311.3
10°	4473.5	4426.1	4428.6	4413.6	4421.1	4416.1	4376.2	4363.7	4371.2	4351.2	4341.2
12.5°	4648.1	4583.3	4583.3	4553.3	4535.9	4483.5	4401.1	4371.2	4376.2	4358.7	4351.2
15°	4815.3	4755.4	4742.9	4683.1	4603.2	4505.9	4431.1	4411.1	4416.1	4398.6	4386.2
17.5°	5012.4	4935.0	4890.1	4780.4	4633.2	4533.4	4458.5	4411.1	4371.2	4331.3	4321.3
20°	5194.5	5097.2	5014.9	4845.2	4665.6	4528.4	4388.6	4271.4	4174.1	4121.7	4109.2
22.5°	5381.6	5256.9	5112.2	4890.1	4663.1	4438.5	4181.6	4004.4	3859.7	3782.4	3797.3
25°	5558.8	5401.6	5204.5	4932.6	4583.3	4239.0	3889.7	3625.2	3460.5	3400.6	3383.2
27.5°	5706.0	5511.4	5289.3	4912.6	4418.6	3952.0	3490.5	3196.1	3036.4	2969.0	2951.5
30°	5870.7	5651.1	5411.6	4820.3	4159.1	3550.3	3038.9	2799.4	2684.6	2619.7	2622.2
32.5°	6060.3	5830.7	5583.7	4643.1	3827.3	3116.2	2667.1	2502.5	2410.1	2345.3	2335.3
35°	6314.8	6087.7	5698.5	4376.2	3405.6	2717.0	2412.6	2277.9	2163.1	2078.3	2060.8
37.5°	6629.1	6474.4	5711.0	4019.4	2954.0	2442.6	2230.5	2085.8	1946.1	1833.8	1821.3
40°	7168.0	6990.9	5608.7	3572.8	2569.8	2265.4	2078.3	1911.1	1749.0	1624.2	1606.8
42.5°	7936.5	7572.2	5389.1	3068.8	2280.4	2125.7	1933.6	1721.5	1556.9	1469.5	1457.1
45°	8914.5	8220.9	5059.8	2594.8	2065.8	1988.5	1781.4	1559.4	1472.0	1409.7	1397.2
47.5°	10112.1	8976.9	4680.6	2225.5	1898.7	1863.7	1626.7	1504.5	1427.1	1374.7	1362.3
50°	11544.2	9940.0	4368.7	1936.1	1749.0	1719.0	1576.8	1472.0	1409.7	1367.2	1357.3
52.5°	13178.4	11010.3	4216.5	1729.0	1619.2	1589.3	1559.4	1464.5	1412.2	1379.7	1367.2
55°	14875.0	12138.0	4074.3	1569.3	1509.5	1526.9	1561.9	1489.5	1449.6	1407.2	1394.7
57.5°	16514.2	13195.9	3725.0	1444.6	1429.6	1497.0	1574.3	1514.4	1467.0	1424.6	1409.7
60°	17644.4	13774.7	3133.7	1344.8	1369.7	1459.6	1541.9	1477.0	1417.1	1399.7	1392.2
62.5°	17948.8	13704.9	2432.6	1242.5	1297.4	1377.2	1457.1	1414.6	1352.3	1379.7	1382.2
65°	17237.7	12956.4	1826.3	1142.7	1202.6	1269.9	1369.7	1352.3	1329.8	1404.7	1407.2
67.5°	15224.3	11117.6	1392.2	1055.4	1105.3	1187.6	1342.3	1414.6	1419.6	1514.4	1504.5
70°	11519.3	8305.7	1090.3	973.0	1030.4	1187.6	1429.6	1462.1	1402.2	1489.5	1469.5
72.5°	7963.9	5481.4	928.1	900.7	938.1	1132.7	1427.1	1427.1	1362.3	1362.3	1324.8
75°	4947.5	3223.5	808.4	808.4	808.4	990.5	1387.2	1314.8	1200.1	1147.7	1117.7
77.5°	2442.6	1566.8	678.6	703.6	676.1	828.3	1132.7	1075.3	1005.5	950.6	930.6
80°	1042.9	783.4	548.9	576.3	543.9	623.7	898.2	885.7	818.3	746.0	723.5
82.5°	479.0	404.2	439.1	451.6	396.7	469.1	656.2	656.2	618.8	519.0	481.5
85°	204.6	214.6	304.4	304.4	249.5	264.5	351.8	334.3	299.4	244.5	224.5
87.5°	69.9	104.8	154.7	134.7	52.4	22.5	12.5	5.0	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)