

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: P638808

Luminaire Tested: GWS-SA4F-750-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638808
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-SA4F-750-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33425.8 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

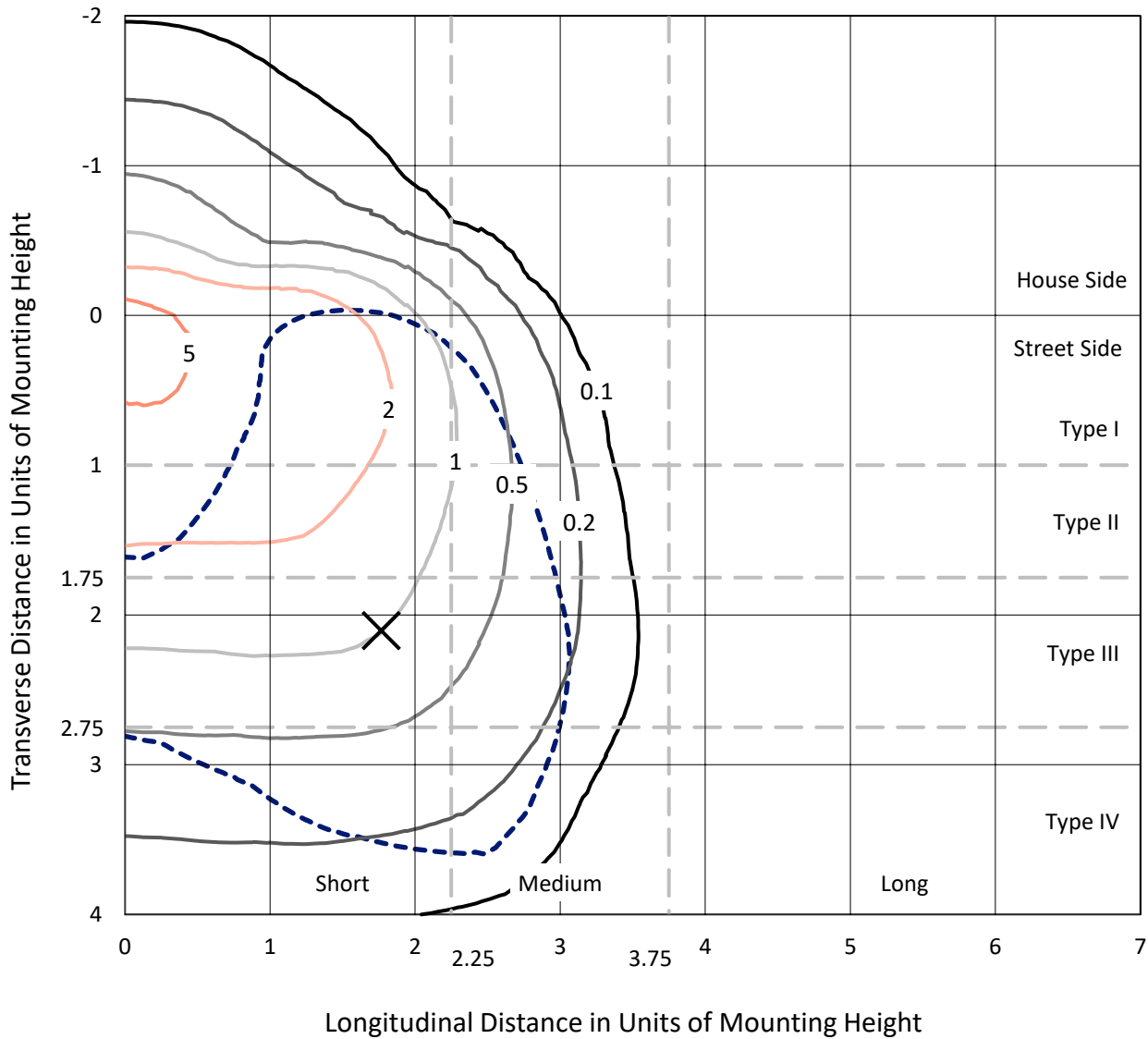
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

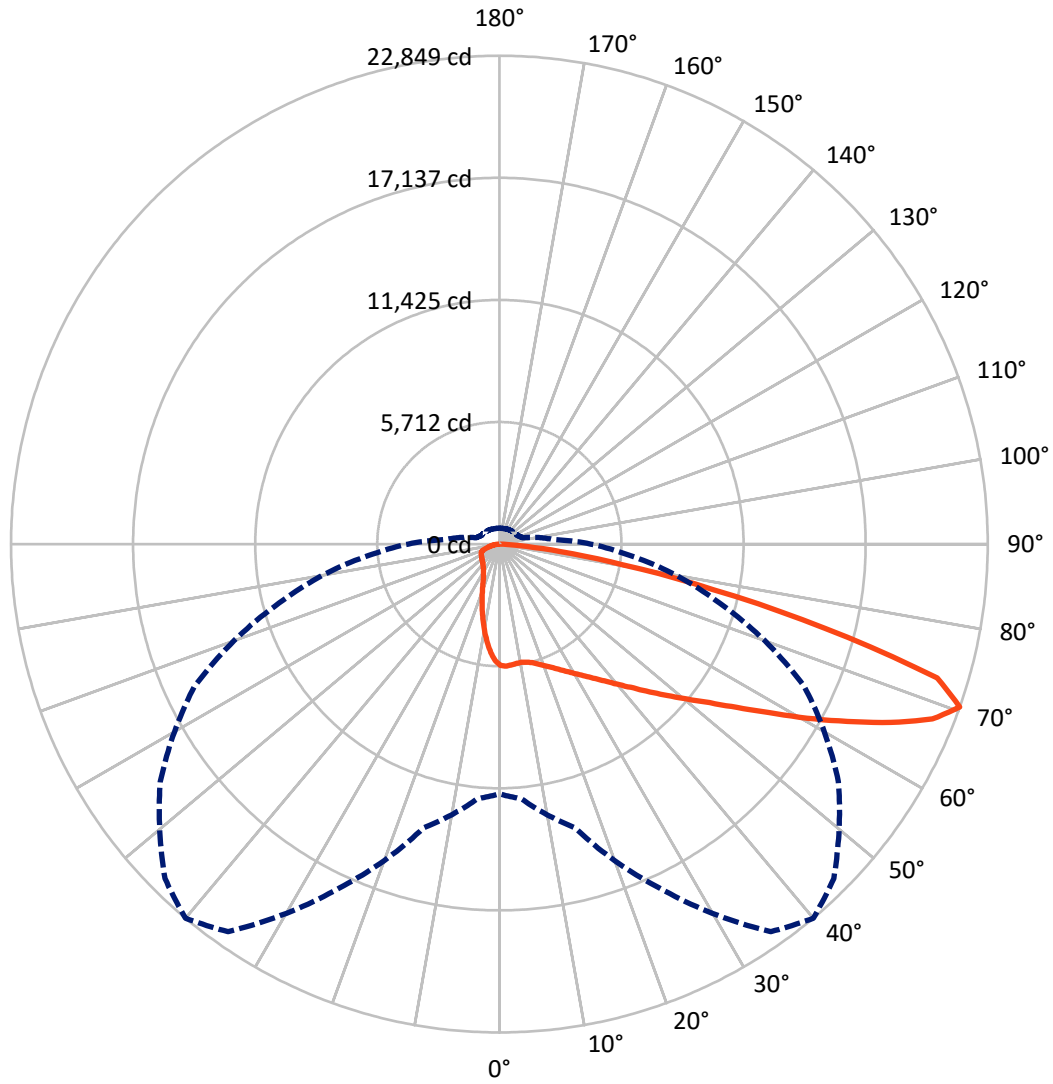
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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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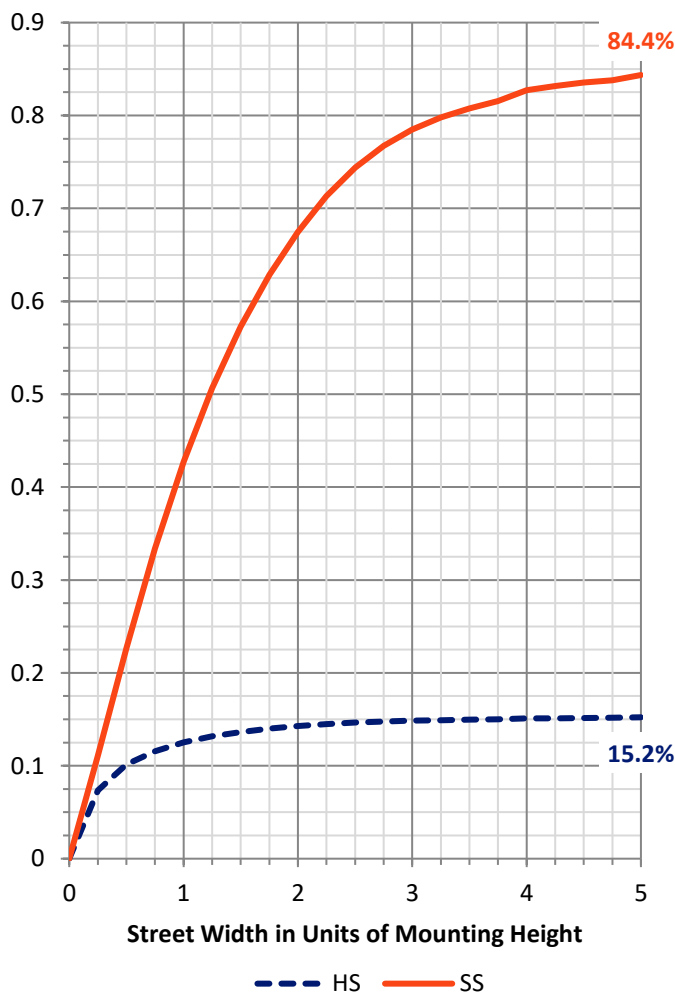
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5148.4	0.0	5148.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	28277.4	0.0	28277.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	33425.8	0.0	33425.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.4	1.5
10°-20°	1307.0	3.9
20°-30°	2052.3	6.1
30°-40°	3085.6	9.2
40°-50°	4762.8	14.2
50°-60°	7073.1	21.2
60°-70°	8915.5	26.7
70°-80°	5155.8	15.4
80°-90°	572.2	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°	33425.8	100.0
0°-180°	33425.8	100.0

Coefficient of Utilization



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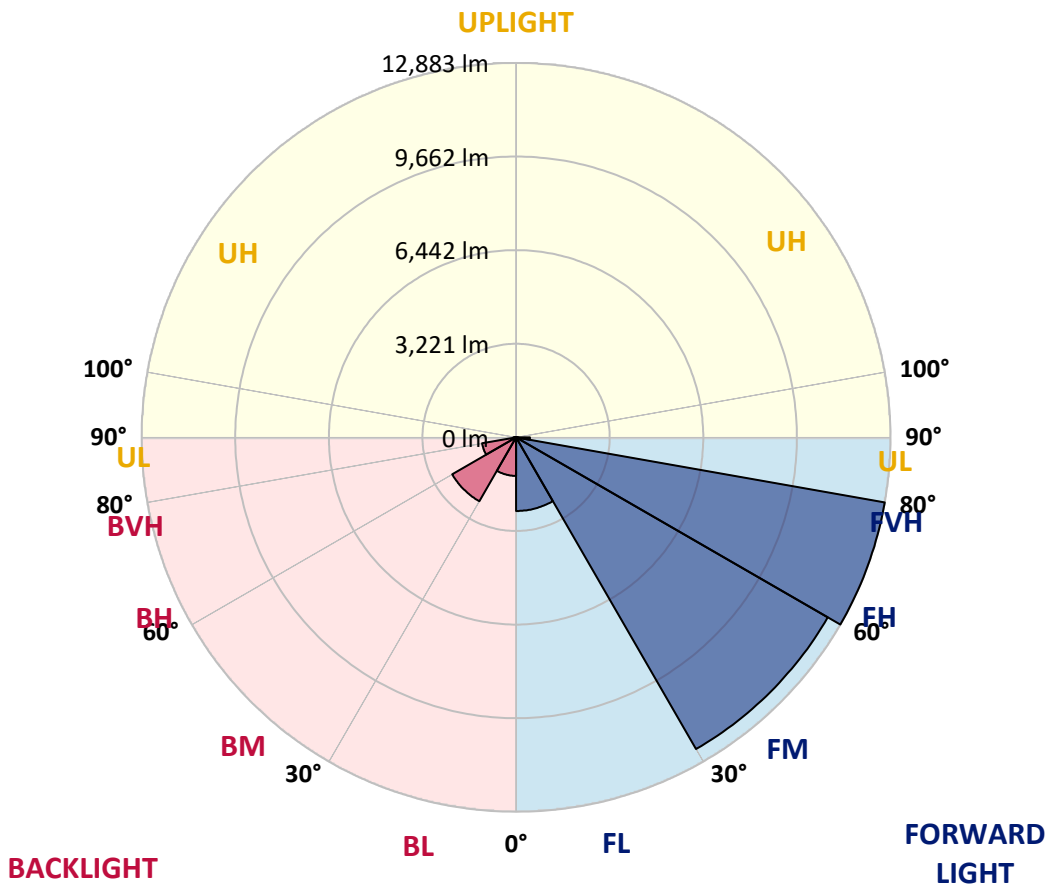
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2533.9	7.6			
FM (30°-60°)	12383.8	37.0			
FH (60°-80°)	12883.1	38.5			G5
FVH (80°-90°)	476.5	1.4			G3/500
BL (0°-30°)	1326.8	4.0	B3/2500		
BM (30°-60°)	2537.7	7.6	B3/5000		
BH (60°-80°)	1188.3	3.6	B3/2500		G3/2500
BVH (80°-90°)	95.6	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5676.1	5676.1	5676.1	5676.1	5676.1	5676.1	5676.1	5676.1	5676.1	5676.1	5676.1
2.5°	5711.0	5721.0	5728.5	5738.5	5733.5	5718.5	5731.0	5731.0	5703.5	5673.6	5646.1
5°	5718.5	5731.0	5728.5	5726.0	5706.0	5681.1	5681.1	5666.1	5618.7	5571.3	5526.4
7.5°	5703.5	5701.0	5698.5	5691.1	5668.6	5641.2	5636.2	5606.2	5543.9	5479.0	5414.1
10°	5636.2	5633.7	5641.2	5658.6	5653.6	5628.7	5628.7	5601.2	5528.9	5449.0	5364.2
12.5°	5581.3	5581.3	5611.2	5658.6	5676.1	5666.1	5668.6	5648.6	5566.3	5471.5	5371.7
15°	5588.8	5591.3	5656.1	5733.5	5765.9	5758.4	5760.9	5738.5	5646.1	5551.3	5416.6
17.5°	5638.7	5651.1	5763.4	5870.7	5913.1	5903.1	5885.7	5848.2	5743.4	5636.2	5471.5
20°	5743.4	5763.4	5908.1	6042.8	6092.7	6070.3	6040.4	5965.5	5850.7	5733.5	5531.4
22.5°	5950.5	5963.0	6122.7	6254.9	6294.8	6267.4	6207.5	6100.2	5968.0	5845.7	5603.7
25°	6242.4	6257.4	6409.6	6531.9	6521.9	6489.4	6407.1	6274.9	6117.7	5988.0	5708.5
27.5°	6589.2	6614.2	6763.9	6861.2	6796.3	6748.9	6656.6	6496.9	6319.8	6202.5	5868.2
30°	6968.5	6978.5	7105.7	7203.0	7103.2	7038.3	6926.1	6753.9	6594.2	6506.9	6107.7
32.5°	7335.2	7345.2	7455.0	7509.9	7405.1	7357.7	7260.4	7078.3	6966.0	6918.6	6464.5
35°	7722.0	7719.5	7809.3	7856.7	7749.4	7729.5	7629.7	7489.9	7470.0	7532.4	6985.9
37.5°	8108.7	8086.2	8133.6	8196.0	8136.1	8156.1	8091.2	8043.8	8121.2	8283.3	7679.6
40°	8418.1	8418.1	8468.0	8545.3	8565.3	8652.6	8615.2	8677.5	8927.0	9313.8	8537.8
42.5°	8692.5	8695.0	8799.8	8919.6	9064.3	9199.0	9228.9	9391.1	9907.6	10513.9	9615.7
45°	8979.4	8981.9	9124.1	9298.8	9605.7	9862.7	9922.5	10286.8	11025.3	11763.8	10785.8
47.5°	9311.3	9283.8	9480.9	9772.8	10209.5	10578.7	10733.4	11249.9	12183.0	13091.2	11888.6
50°	9685.5	9628.1	9847.7	10351.7	10890.6	11397.1	11656.6	12247.9	13425.5	14316.2	12926.5
52.5°	10107.2	10074.7	10304.3	10918.0	11741.4	12325.2	12677.0	13452.9	14633.1	15536.3	13749.8
55°	10631.1	10553.8	10885.6	11666.5	12739.4	13482.9	13899.5	14645.5	15952.9	16644.0	14378.6
57.5°	11205.0	11120.1	11564.2	12602.2	14036.8	14852.6	15374.1	15987.8	17195.4	17492.3	14747.8
60°	11823.7	11796.3	12322.7	13699.9	15583.7	16531.8	16908.5	17464.9	18275.7	17983.8	14655.5
62.5°	12390.1	12380.1	13146.1	14890.1	17222.9	18265.8	18565.2	18712.4	19054.2	17951.4	13922.0
65°	12986.4	13071.2	14106.6	16269.8	19101.6	20124.5	20249.3	19875.0	19316.2	17100.6	12420.0
67.5°	13061.2	13225.9	14710.4	17562.2	20883.0	21848.6	21748.8	20316.6	18542.7	14732.9	9735.4
70°	11681.5	11968.4	13747.4	17759.3	22138.0	22849.0	22128.0	19366.1	15735.9	10673.5	6122.7
72.5°	9760.4	10007.4	11579.2	15144.5	20518.7	21424.4	20448.9	16392.0	11120.1	6122.7	3118.7
75°	7597.2	7884.1	9333.7	12038.3	15361.6	15723.4	15234.4	11432.0	6112.7	2524.9	1417.1
77.5°	4635.7	4842.8	5970.5	8156.1	10748.4	10207.0	8650.1	6409.6	2682.1	1210.1	875.7
80°	2050.9	2178.1	2941.6	4381.2	6210.0	5870.7	4628.2	2737.0	1467.0	768.5	611.3
82.5°	1100.3	1182.6	1449.6	1734.0	2727.0	2851.8	2312.8	1576.8	788.4	439.1	349.3
85°	484.0	531.4	658.7	628.7	895.7	880.7	888.2	1082.8	376.7	202.1	227.0
87.5°	0.0	0.0	0.0	0.0	2.5	2.5	27.4	144.7	37.4	59.9	52.4
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°	5676.1	5676.1	5676.1	5676.1	5676.1	5676.1	5676.1	5676.1	5676.1	5676.1	5676.1
2.5°	5616.2	5571.3	5558.8	5543.9	5516.4	5469.0	5434.1	5394.2	5376.7	5356.7	5359.2
5°	5476.5	5421.6	5369.2	5301.8	5217.0	5122.2	5057.3	4982.5	4942.6	4905.1	4915.1
7.5°	5356.7	5271.9	5164.6	5022.4	4870.2	4700.5	4563.3	4456.0	4383.7	4333.8	4358.7
10°	5281.9	5182.1	4995.0	4762.9	4505.9	4246.5	4049.4	3864.7	3750.0	3660.1	3655.1
12.5°	5266.9	5137.2	4865.2	4528.4	4156.6	3809.8	3520.4	3270.9	3118.7	3006.5	3048.9
15°	5281.9	5117.2	4752.9	4311.3	3842.3	3373.2	3013.9	2727.0	2544.9	2442.6	2435.1
17.5°	5299.3	5097.2	4625.7	4076.8	3512.9	2976.5	2559.9	2255.5	2068.3	1966.0	1968.5
20°	5314.3	5067.3	4476.0	3819.8	3178.6	2607.3	2175.6	1886.2	1719.0	1644.2	1656.7
22.5°	5339.3	5037.4	4316.3	3545.4	2836.8	2250.5	1871.2	1636.7	1536.9	1487.0	1489.5
25°	5386.7	5019.9	4151.7	3246.0	2500.0	1966.0	1661.7	1504.5	1442.1	1412.2	1409.7
27.5°	5484.0	5034.9	3979.5	2956.6	2195.6	1749.0	1526.9	1424.6	1382.2	1362.3	1359.8
30°	5646.1	5094.8	3829.8	2662.1	1933.6	1579.3	1434.6	1372.2	1347.3	1329.8	1327.3
32.5°	5893.1	5207.0	3667.6	2387.7	1721.5	1454.6	1362.3	1329.8	1312.4	1302.4	1302.4
35°	6267.4	5411.6	3507.9	2148.2	1556.9	1357.3	1304.9	1292.4	1277.4	1272.4	1277.4
37.5°	6806.3	5738.5	3363.2	1938.6	1439.6	1282.4	1242.5	1247.5	1235.0	1242.5	1250.0
40°	7489.9	6175.1	3241.0	1766.4	1352.3	1227.5	1187.6	1205.1	1197.6	1205.1	1217.6
42.5°	8355.7	6716.5	3148.7	1631.7	1289.9	1182.6	1145.2	1162.7	1157.7	1167.7	1180.1
45°	9321.3	7430.1	3106.3	1536.9	1245.0	1150.2	1110.3	1122.7	1117.8	1125.2	1137.7
47.5°	10246.9	8078.8	3143.7	1482.0	1207.6	1122.7	1080.3	1085.3	1082.8	1080.3	1087.8
50°	11045.3	8595.2	3251.0	1464.6	1182.6	1095.3	1055.4	1057.9	1050.4	1035.4	1040.4
52.5°	11696.5	9009.4	3315.8	1464.6	1170.1	1065.4	1027.9	1030.4	1015.5	995.5	998.0
55°	12125.6	9176.5	3263.4	1462.1	1165.2	1040.4	1000.5	1003.0	988.0	963.1	965.6
57.5°	12247.9	9014.4	3043.9	1434.6	1160.2	1020.4	973.0	978.0	968.1	940.6	940.6
60°	11906.1	8420.6	2642.2	1372.2	1147.7	1008.0	953.1	960.6	955.6	928.1	928.1
62.5°	11010.4	7365.2	2163.1	1277.4	1112.8	993.0	935.6	950.6	963.1	948.1	945.6
65°	9333.7	5900.6	1759.0	1172.6	1067.9	968.1	910.7	948.1	975.5	995.5	995.5
67.5°	7003.4	4224.0	1434.6	1062.9	1000.5	918.2	878.2	913.2	933.1	945.6	953.1
70°	4268.9	2485.0	1130.2	935.6	903.2	843.3	813.4	778.4	751.0	746.0	748.5
72.5°	2088.3	1422.1	918.2	795.9	770.9	716.1	648.7	633.7	621.3	613.8	611.3
75°	1150.2	990.5	758.5	661.2	616.3	548.9	533.9	509.0	504.0	494.0	496.5
77.5°	813.4	780.9	626.2	536.4	469.1	434.1	441.6	424.1	424.1	416.7	414.2
80°	611.3	613.8	481.5	391.7	346.8	334.3	341.8	341.8	336.8	334.3	331.8
82.5°	386.7	436.6	324.3	252.0	247.0	249.5	247.0	244.5	249.5	242.0	239.5
85°	267.0	314.4	197.1	149.7	149.7	147.2	152.2	149.7	154.7	147.2	147.2
87.5°	59.9	139.7	72.4	44.9	47.4	44.9	47.4	49.9	54.9	57.4	57.4
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)