

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: P641194

Luminaire Tested: GWS-SA5F-735-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641194
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-SA5F-735-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41194.4 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

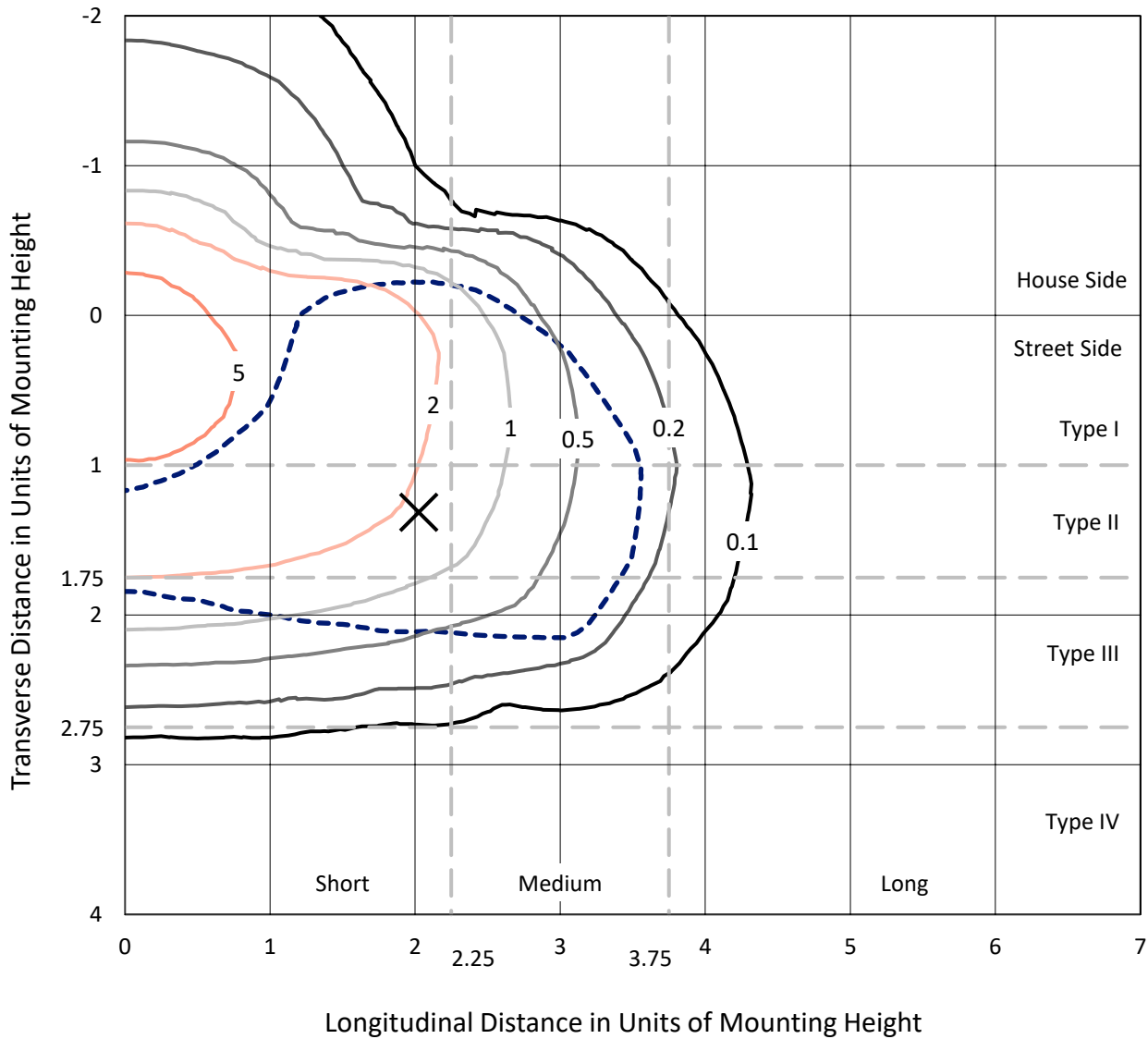
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

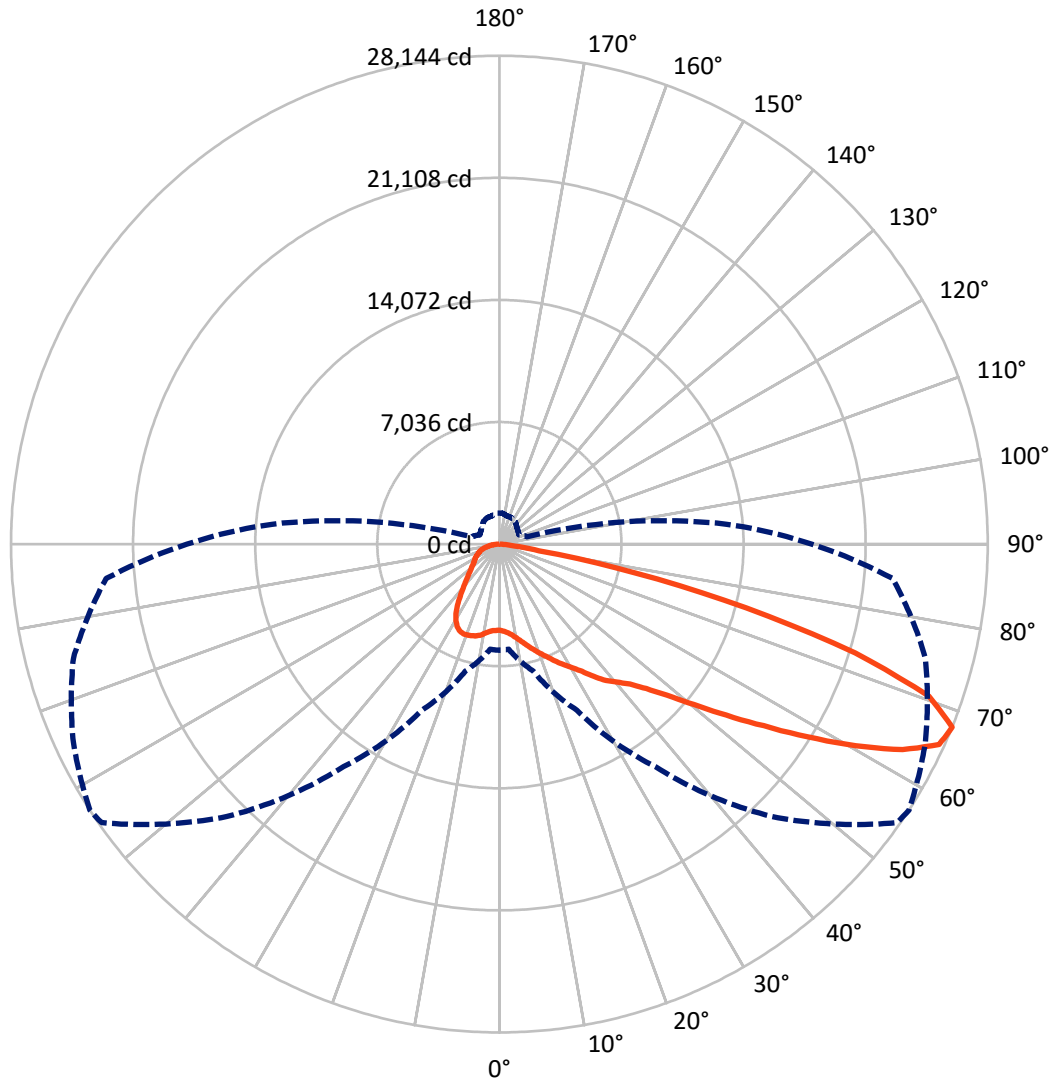
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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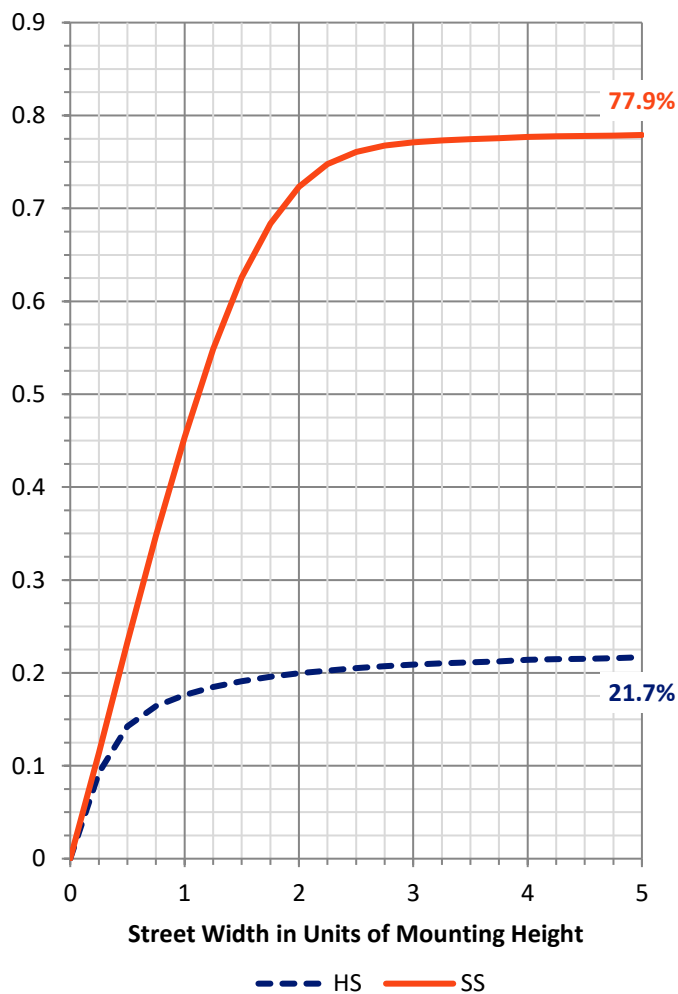
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9057.1	0.0	9057.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	32137.3	0.0	32137.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	41194.4	0.0	41194.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.3	1.2
10°-20°	1629.7	4.0
20°-30°	2905.5	7.1
30°-40°	4224.2	10.3
40°-50°	6113.9	14.8
50°-60°	9568.0	23.2
60°-70°	11161.7	27.1
70°-80°	4659.4	11.3
80°-90°	439.7	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°	41194.4	100.0
0°-180°	41194.4	100.0

Coefficient of Utilization



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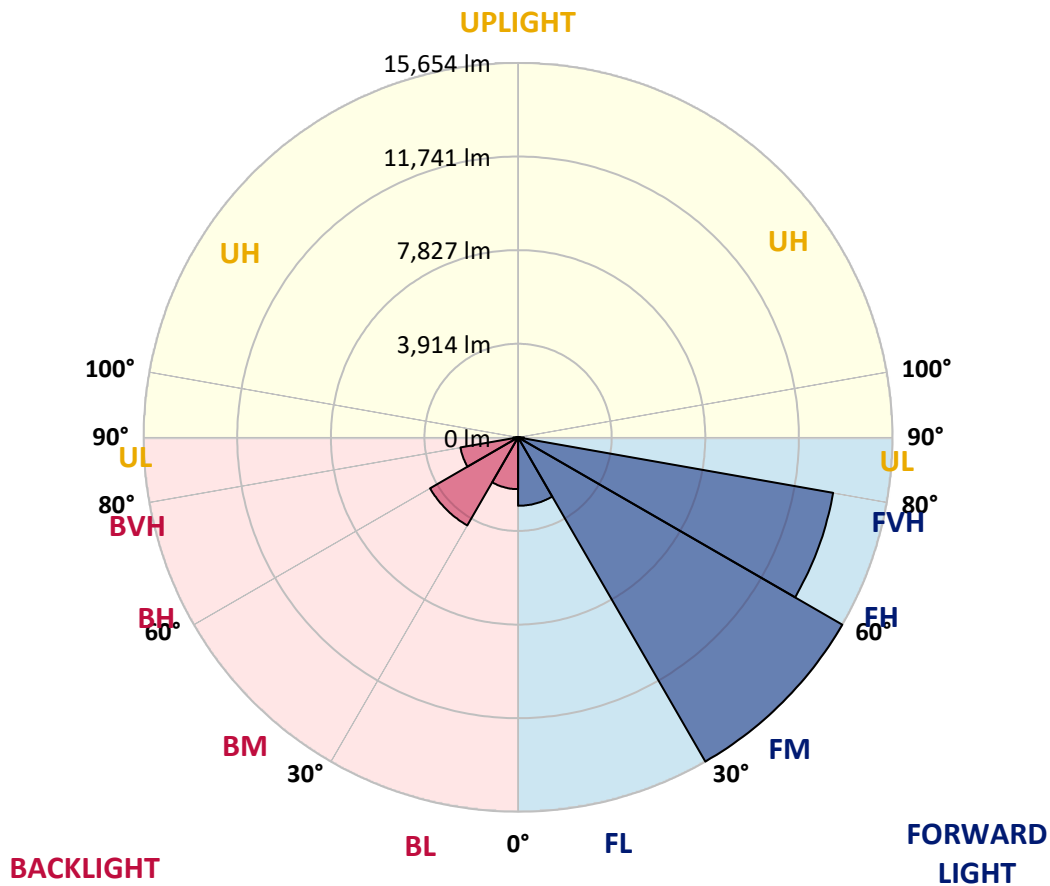
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2861.4	6.9			
FM (30°-60°)	15654.5	38.0			
FH (60°-80°)	13376.5	32.5			G5
FVH (80°-90°)	245.0	0.6			G3/500
BL (0°-30°)	2166.2	5.3	B3/2500		
BM (30°-60°)	4251.7	10.3	B3/5000		
BH (60°-80°)	2444.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	194.7	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6
2.5°	5034.5	5028.6	5025.6	5043.3	5037.4	5034.5	5034.5	5031.5	5025.6	5002.0	4969.5
5°	5173.2	5161.4	5149.6	5164.3	5152.5	5140.7	5137.8	5131.9	5111.2	5075.8	5025.6
7.5°	5317.8	5306.0	5308.9	5317.8	5308.9	5303.0	5294.2	5288.3	5255.8	5199.7	5131.9
10°	5521.4	5521.4	5527.3	5536.1	5539.1	5530.2	5512.5	5503.7	5465.3	5394.5	5300.1
12.5°	5816.5	5810.6	5810.6	5804.7	5813.5	5804.7	5787.0	5772.2	5725.0	5633.5	5497.8
15°	6206.0	6182.4	6161.8	6123.4	6111.6	6079.1	6085.0	6076.2	6031.9	5908.0	5736.8
17.5°	6622.1	6619.2	6586.7	6510.0	6433.3	6380.1	6391.9	6389.0	6365.4	6197.2	5978.8
20°	6988.1	7002.8	6973.3	6914.3	6811.0	6710.7	6704.8	6719.5	6690.0	6521.8	6217.8
22.5°	7398.3	7386.4	7356.9	7280.2	7203.5	7097.2	7061.8	7050.0	7038.2	6846.4	6462.8
25°	7787.8	7823.2	7784.8	7714.0	7596.0	7480.9	7451.4	7463.2	7430.7	7176.9	6725.4
27.5°	8280.6	8295.4	8271.8	8174.4	8074.0	7911.7	7855.7	7855.7	7843.9	7486.8	6932.0
30°	8805.9	8847.2	8805.9	8726.2	8622.9	8389.8	8268.8	8257.0	8221.6	7805.5	7174.0
32.5°	9334.1	9363.6	9334.1	9257.4	9139.4	8935.7	8761.6	8735.1	8687.9	8153.7	7421.9
35°	9803.3	9829.9	9824.0	9841.7	9744.3	9487.6	9381.3	9369.5	9245.6	8608.2	7758.3
37.5°	10316.8	10349.3	10305.0	10340.4	10302.1	10060.1	10027.6	9968.6	9791.5	9036.1	8112.4
40°	10901.1	10930.6	10859.8	10874.6	10830.3	10694.6	10529.3	10449.6	10187.0	9499.4	8670.1
42.5°	11526.8	11594.6	11627.1	11600.5	11497.2	11420.5	11131.3	11031.0	10812.6	10334.5	9587.9
45°	12432.7	12533.1	12580.3	12512.4	12468.1	12358.9	12004.8	11883.8	11768.7	11512.0	10868.7
47.5°	13409.5	13501.0	13651.5	13681.0	13716.4	13633.8	13135.1	13017.0	13037.7	13008.2	12444.5
50°	14188.6	14265.3	14604.7	14967.7	15268.7	15292.3	14654.9	14528.0	14640.1	14734.5	14342.0
52.5°	14755.2	14823.1	15271.6	16021.2	16702.9	17207.5	16519.9	16375.3	16466.8	16679.3	16499.2
55°	15215.5	15310.0	15779.2	16930.1	18308.2	19105.0	18665.3	18482.3	18444.0	18706.6	18809.9
57.5°	15457.5	15487.0	16145.1	17641.3	19485.7	20967.1	21158.9	20952.4	20586.4	20731.0	21268.1
60°	14905.7	14955.9	15855.9	17824.3	20415.3	22814.5	23776.5	23605.3	22826.3	22906.0	23499.1
62.5°	13380.0	13450.8	14533.9	16953.7	20492.0	24048.0	26193.4	26084.2	25039.6	24608.7	24785.8
65°	10732.9	10756.5	11877.9	14799.5	18966.3	24201.5	27878.4	27851.9	26585.9	25576.6	24818.2
67.5°	6120.5	6079.1	7578.3	10555.9	15652.3	22206.6	27987.6	28144.0	27087.6	25417.3	22752.5
70°	2653.0	2658.9	3349.4	5208.6	10130.9	17948.2	25995.7	26264.2	25635.7	22764.3	18101.7
72.5°	1227.6	1245.3	1543.4	2254.6	4326.2	11134.3	21197.3	21439.3	20899.2	18219.7	13170.5
75°	867.6	882.4	1029.9	1292.6	1989.0	4338.0	14179.7	14687.3	14950.0	13627.9	8679.0
77.5°	658.1	678.7	752.5	897.1	1227.6	1537.5	6784.4	7994.4	9523.0	8478.3	4470.8
80°	419.0	419.0	498.7	599.1	749.6	799.7	1959.5	2322.5	4659.7	3494.0	1755.9
82.5°	283.3	292.2	339.4	380.7	430.9	454.5	841.0	897.1	1345.7	1189.3	723.0
85°	150.5	156.4	177.1	174.1	206.6	180.0	354.1	351.2	492.8	540.0	274.4
87.5°	0.0	0.0	3.0	3.0	5.9	8.9	38.4	41.3	103.3	165.3	91.5
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°	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6
2.5°	4987.3	4951.8	4969.5	4963.6	4981.4	4981.4	4948.9	4940.0	4943.0	4907.6	4895.8
5°	5031.5	4990.2	4999.1	4987.3	5005.0	5019.7	5005.0	5005.0	5022.7	4996.1	4981.4
7.5°	5131.9	5084.6	5084.6	5069.9	5090.5	5102.3	5090.5	5108.2	5140.7	5114.1	5099.4
10°	5291.2	5235.1	5238.1	5220.4	5229.2	5223.3	5176.1	5161.4	5170.2	5146.6	5134.8
12.5°	5497.8	5421.1	5421.1	5385.6	5365.0	5303.0	5205.6	5170.2	5176.1	5155.5	5146.6
15°	5695.5	5624.7	5609.9	5539.1	5444.7	5329.6	5241.0	5217.4	5223.3	5202.7	5187.9
17.5°	5928.6	5837.2	5784.0	5654.2	5480.1	5362.0	5273.5	5217.4	5170.2	5123.0	5111.2
20°	6144.1	6029.0	5931.6	5730.9	5518.4	5356.1	5190.9	5052.2	4937.1	4875.1	4860.4
22.5°	6365.4	6217.8	6046.7	5784.0	5515.5	5249.9	4945.9	4736.4	4565.3	4473.8	4491.5
25°	6574.9	6389.0	6155.9	5834.2	5421.1	5013.8	4600.7	4287.9	4093.1	4022.3	4001.6
27.5°	6749.0	6518.8	6256.2	5810.6	5226.3	4674.4	4128.5	3780.3	3591.4	3511.7	3491.1
30°	6943.8	6684.1	6400.8	5701.4	4919.4	4199.3	3594.4	3311.1	3175.3	3098.6	3101.5
32.5°	7168.1	6896.6	6604.4	5491.9	4526.9	3685.8	3154.7	2959.9	2850.7	2774.0	2762.2
35°	7469.1	7200.5	6740.2	5176.1	4028.2	3213.7	2853.7	2694.3	2558.5	2458.2	2437.6
37.5°	7840.9	7657.9	6754.9	4754.1	3494.0	2889.1	2638.2	2467.1	2301.8	2169.0	2154.3
40°	8478.3	8268.8	6633.9	4225.9	3039.6	2679.5	2458.2	2260.5	2068.7	1921.1	1900.5
42.5°	9387.2	8956.4	6374.2	3629.8	2697.2	2514.3	2287.1	2036.2	1841.4	1738.2	1723.4
45°	10544.1	9723.7	5984.7	3069.1	2443.5	2352.0	2107.0	1844.4	1741.1	1667.3	1652.6
47.5°	11960.6	10617.8	5536.1	2632.3	2245.7	2204.4	1924.1	1779.5	1688.0	1626.0	1611.3
50°	13654.4	11756.9	5167.3	2290.0	2068.7	2033.3	1865.1	1741.1	1667.3	1617.2	1605.4
52.5°	15587.4	13022.9	4987.3	2045.1	1915.2	1879.8	1844.4	1732.3	1670.3	1631.9	1617.2
55°	17594.1	14356.8	4819.0	1856.2	1785.4	1806.0	1847.3	1761.8	1714.6	1664.4	1649.6
57.5°	19532.9	15608.0	4405.9	1708.7	1690.9	1770.6	1862.1	1791.3	1735.2	1685.0	1667.3
60°	20869.7	16292.7	3706.5	1590.6	1620.1	1726.4	1823.7	1747.0	1676.2	1655.5	1646.7
62.5°	21229.8	16210.0	2877.3	1469.6	1534.5	1629.0	1723.4	1673.2	1599.5	1631.9	1634.9
65°	20388.7	15324.7	2160.2	1351.6	1422.4	1502.1	1620.1	1599.5	1572.9	1661.4	1664.4
67.5°	18007.2	13149.8	1646.7	1248.3	1307.3	1404.7	1587.7	1673.2	1679.1	1791.3	1779.5
70°	13624.9	9824.0	1289.6	1150.9	1218.8	1404.7	1690.9	1729.3	1658.5	1761.8	1738.2
72.5°	9419.7	6483.4	1097.8	1065.3	1109.6	1339.8	1688.0	1688.0	1611.3	1611.3	1567.0
75°	5851.9	3812.7	956.1	956.1	956.1	1171.6	1640.8	1555.2	1419.4	1357.5	1322.1
77.5°	2889.1	1853.3	802.7	832.2	799.7	979.7	1339.8	1271.9	1189.3	1124.3	1100.7
80°	1233.5	926.6	649.2	681.7	643.3	737.8	1062.4	1047.6	967.9	882.4	855.8
82.5°	566.6	478.1	519.4	534.1	469.2	554.8	776.1	776.1	731.9	613.8	569.6
85°	242.0	253.8	360.0	360.0	295.1	312.8	416.1	395.4	354.1	289.2	265.6
87.5°	82.6	123.9	183.0	159.4	62.0	26.6	14.8	5.9	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)