

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: P638531

Luminaire Tested: GWS-SA4F-722-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638531
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-SA4F-722-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24556.6 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

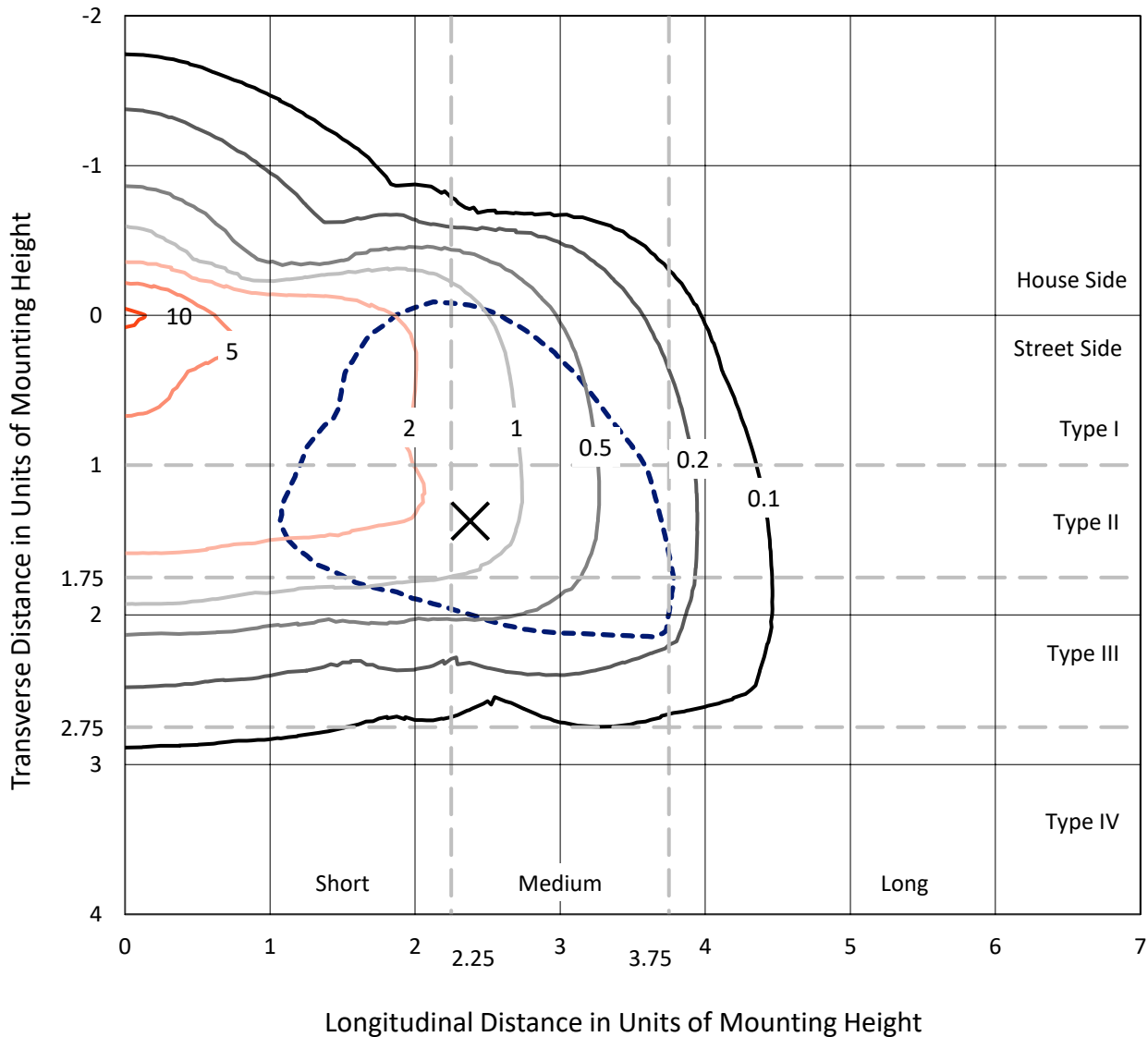
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

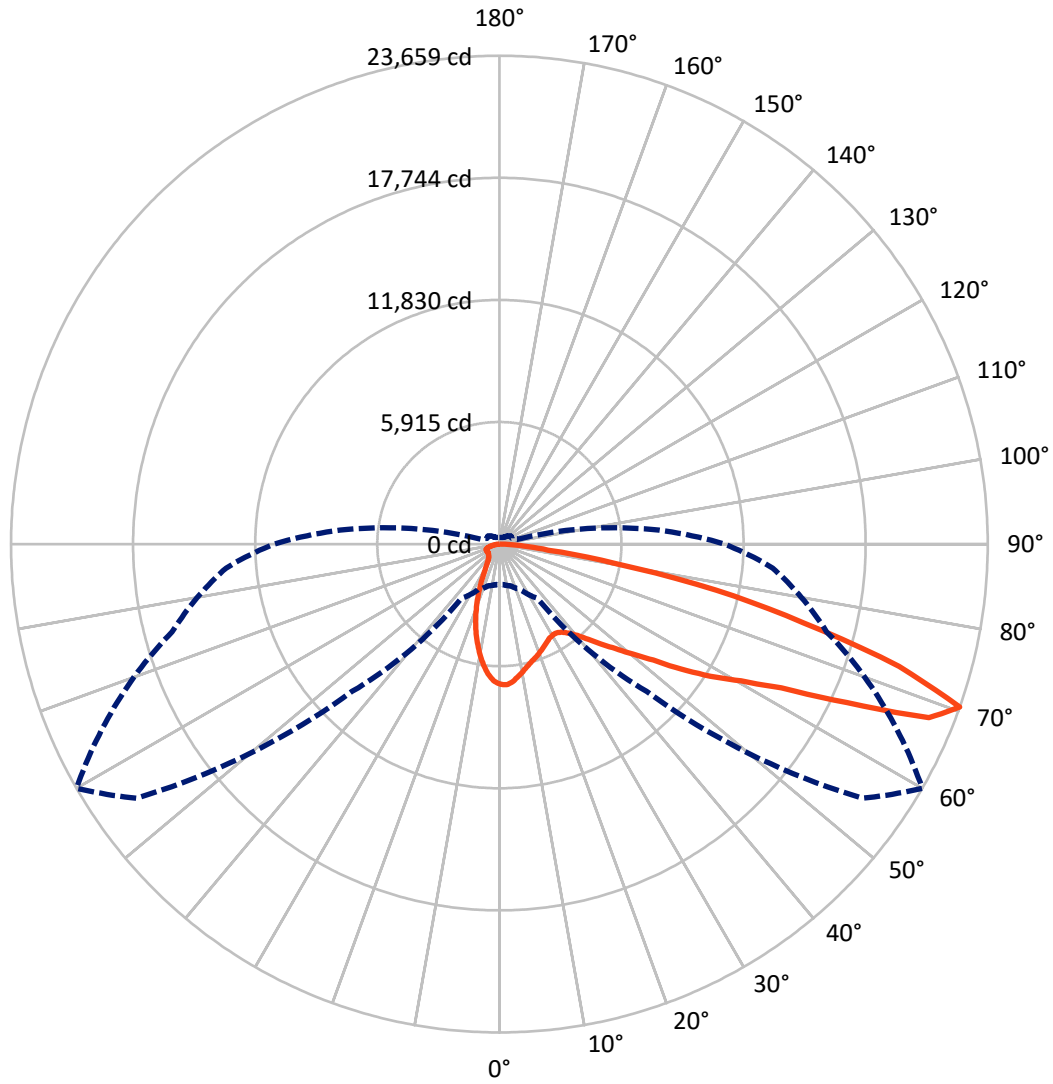
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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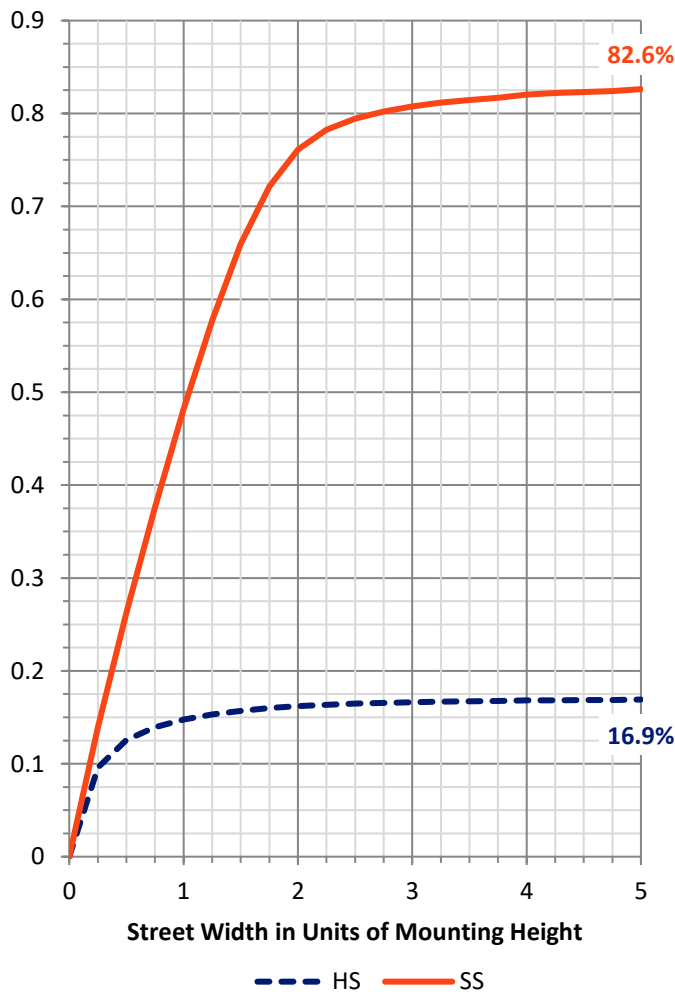
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4199.8	0.0	4199.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	20356.8	0.0	20356.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	24556.6	0.0	24556.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.7	2.4
10°-20°	1312.2	5.3
20°-30°	1680.5	6.8
30°-40°	2208.5	9.0
40°-50°	3204.2	13.0
50°-60°	4999.4	20.4
60°-70°	6545.2	26.7
70°-80°	3619.3	14.7
80°-90°	401.7	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°	24556.6	100.0
0°-180°	24556.6	100.0

Coefficient of Utilization



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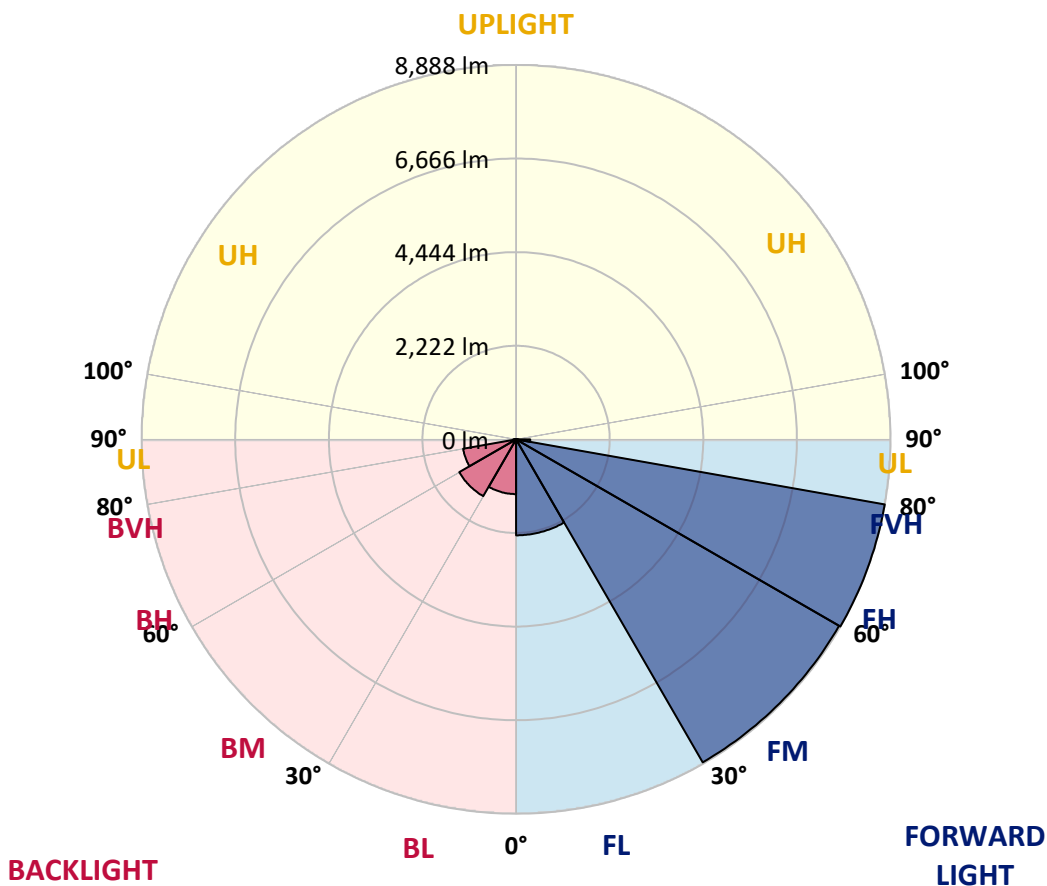
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2279.0	9.3			
FM (30°-60°)	8855.0	36.1			
FH (60°-80°)	8888.1	36.2			G4/12000
FVH (80°-90°)	334.7	1.4			G3/500
BL (0°-30°)	1299.4	5.3	B3/2500		
BM (30°-60°)	1557.1	6.3	B2/2500		
BH (60°-80°)	1276.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	67.0	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°	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1
2.5°	6699.9	6707.1	6726.9	6755.6	6784.3	6798.7	6834.7	6823.9	6816.7	6802.3	6784.3
5°	6403.4	6417.8	6435.8	6491.5	6554.4	6604.7	6685.5	6694.5	6698.1	6705.3	6676.5
7.5°	6026.1	6029.7	6072.9	6146.5	6229.2	6315.4	6450.2	6487.9	6520.2	6556.2	6532.8
10°	5609.3	5618.3	5650.6	5756.6	5898.6	6026.1	6207.6	6270.5	6338.8	6417.8	6385.5
12.5°	5267.9	5269.7	5321.8	5435.0	5589.5	5762.0	5988.4	6063.9	6153.7	6277.7	6248.9
15°	4996.6	4996.6	5045.1	5142.2	5320.0	5523.1	5792.6	5889.6	6011.8	6178.9	6128.6
17.5°	4781.0	4782.8	4813.4	4915.8	5073.9	5298.5	5618.3	5749.4	5884.2	6105.2	6029.7
20°	4667.8	4658.8	4664.2	4727.1	4861.9	5079.3	5444.0	5596.7	5778.2	6054.9	5939.9
22.5°	4662.4	4646.3	4622.9	4628.3	4707.4	4887.0	5257.2	5442.2	5670.4	6013.6	5848.3
25°	4754.1	4736.1	4694.8	4648.1	4640.9	4748.7	5081.1	5291.3	5559.0	5995.6	5760.2
27.5°	4908.6	4896.0	4842.1	4772.0	4698.4	4694.8	4948.1	5167.3	5478.1	6013.6	5697.3
30°	5113.4	5091.9	5057.7	4967.9	4856.5	4741.5	4896.0	5100.8	5424.2	6071.1	5670.4
32.5°	5345.2	5332.6	5300.3	5210.4	5091.9	4908.6	4937.3	5115.2	5424.2	6171.7	5675.8
35°	5591.3	5589.5	5589.5	5530.3	5399.1	5170.9	5100.8	5237.4	5506.9	6333.4	5733.3
37.5°	5830.3	5828.5	5886.0	5907.6	5758.4	5512.3	5379.3	5481.7	5688.4	6572.3	5875.2
40°	6024.3	6031.5	6157.3	6265.1	6182.5	5954.3	5767.4	5819.5	5983.0	6911.9	6123.2
42.5°	6220.2	6239.9	6428.6	6619.1	6651.4	6453.8	6265.1	6295.6	6405.2	7361.1	6493.3
45°	6434.0	6443.0	6707.1	6973.0	7129.3	7012.5	6858.0	6899.3	6924.5	7916.3	7044.9
47.5°	6640.6	6664.0	7005.3	7370.1	7666.5	7655.7	7569.5	7556.9	7562.3	8591.8	7697.1
50°	6922.7	6956.8	7357.5	7797.7	8232.5	8431.9	8457.1	8361.9	8322.3	9342.9	8509.2
52.5°	7458.1	7458.1	7817.5	8250.5	8834.4	9328.5	9497.4	9341.1	9215.3	10137.0	9371.6
55°	8128.3	8157.0	8442.7	8793.1	9533.3	10271.7	10843.1	10670.6	10314.9	11001.2	10275.3
57.5°	8426.5	8462.5	8915.2	9459.6	10447.8	11344.4	12136.7	12075.6	11556.4	11899.6	11213.2
60°	7887.5	7963.0	8586.4	9499.2	11276.1	13074.6	13633.4	13455.5	12713.5	12842.8	12230.2
62.5°	6579.5	6662.2	7353.9	8627.8	11161.1	14945.0	15992.4	15336.7	14158.0	14034.0	13584.9
65°	3925.8	3922.2	4754.1	6443.0	9743.5	15464.2	19726.0	18502.4	16389.5	15669.0	14979.1
67.5°	2495.6	2490.2	2664.5	3413.7	6484.3	14192.2	22126.4	22444.4	19420.6	16871.0	15094.1
70°	1969.2	1967.4	2093.2	2434.5	3207.1	10099.3	21458.0	23659.0	21251.4	16412.9	13290.2
72.5°	1435.6	1439.2	1633.2	2039.3	2474.1	5070.3	17375.9	20243.4	19546.3	14488.6	10789.2
75°	1031.3	1036.7	1153.5	1561.3	2281.8	2772.3	11554.6	15221.7	14871.3	11613.9	7422.2
77.5°	655.8	663.0	765.4	1094.2	1843.4	2238.7	7005.3	10746.1	9894.4	6543.6	2639.4
80°	400.7	424.0	510.3	815.7	1473.3	1679.9	3501.8	5661.4	4955.3	1794.9	887.6
82.5°	206.6	224.6	307.2	504.9	1015.1	1475.1	1981.8	2378.8	1534.4	751.0	472.5
85°	64.7	75.5	107.8	204.8	483.3	914.5	1311.6	1182.2	704.3	354.0	219.2
87.5°	16.2	16.2	18.0	18.0	19.8	41.3	253.3	267.7	186.9	111.4	89.8
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°	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1
2.5°	6748.4	6705.3	6687.3	6685.5	6640.6	6575.9	6532.8	6502.3	6484.3	6480.7	6480.7
5°	6628.0	6572.3	6498.7	6443.0	6322.6	6200.4	6098.0	6040.5	5974.0	5965.1	5963.3
7.5°	6468.1	6387.3	6247.1	6090.8	5880.6	5677.6	5505.1	5388.3	5271.5	5250.0	5242.8
10°	6295.6	6186.0	5947.1	5672.2	5357.8	5054.1	4790.0	4583.4	4446.8	4349.8	4331.8
12.5°	6125.0	5979.4	5629.1	5219.4	4788.2	4373.2	3976.1	3638.3	3394.0	3252.0	3226.9
15°	5965.1	5762.0	5282.3	4759.5	4198.9	3631.1	3068.8	2630.4	2287.2	2165.0	2136.3
17.5°	5819.5	5566.2	4946.3	4283.3	3584.4	2842.4	2202.8	1812.9	1611.6	1550.6	1536.2
20°	5674.0	5365.0	4604.9	3782.1	2932.2	2100.3	1609.8	1426.6	1351.1	1327.8	1320.6
22.5°	5517.7	5144.0	4233.0	3288.0	2272.8	1572.1	1317.0	1236.1	1212.8	1214.6	1212.8
25°	5361.4	4919.4	3843.1	2750.8	1692.5	1275.7	1149.9	1119.3	1124.7	1140.9	1144.5
27.5°	5232.0	4719.9	3460.4	2161.4	1322.4	1097.8	1038.5	1036.7	1056.5	1078.0	1081.6
30°	5138.6	4542.1	3083.1	1661.9	1088.8	975.6	952.3	963.0	986.4	1002.6	1008.0
32.5°	5072.1	4389.3	2680.7	1306.2	954.0	889.4	878.6	889.4	903.7	919.9	923.5
35°	5048.7	4277.9	2285.4	1065.4	862.4	826.5	819.3	824.7	831.9	840.9	844.5
37.5°	5100.8	4222.3	1872.2	927.1	806.7	785.2	774.4	770.8	772.6	776.2	778.0
40°	5255.4	4247.4	1534.4	846.2	770.8	751.0	733.1	725.9	724.1	727.7	725.9
42.5°	5521.3	4353.4	1290.0	799.5	742.0	713.3	693.5	686.3	686.3	695.3	695.3
45°	5911.2	4561.8	1114.0	765.4	716.9	681.0	659.4	655.8	663.0	677.4	679.2
47.5°	6482.5	4867.3	1008.0	740.2	693.5	652.2	630.6	628.8	643.2	666.6	668.4
50°	7159.9	5307.5	950.5	722.3	677.4	628.8	607.3	609.1	625.3	650.4	655.8
52.5°	7975.6	5907.6	954.0	715.1	668.4	614.5	592.9	589.3	605.5	630.6	636.0
55°	8818.2	6637.0	1024.1	716.9	655.8	607.3	578.5	566.0	580.3	598.3	600.1
57.5°	9745.3	7459.9	1198.4	713.3	639.6	600.1	566.0	537.2	546.2	557.0	562.4
60°	10791.0	8428.3	1573.9	720.5	632.4	583.9	540.8	503.1	501.3	508.5	510.3
62.5°	12188.8	9745.3	1996.1	733.1	648.6	564.2	503.1	463.5	456.4	460.0	461.8
65°	13257.9	10374.2	1863.2	722.3	682.7	549.8	467.1	425.8	411.4	407.9	407.9
67.5°	12823.1	9542.3	1297.2	693.5	698.9	551.6	438.4	386.3	368.3	359.3	357.5
70°	10911.4	7751.0	901.9	664.8	681.0	548.0	407.9	354.0	330.6	318.0	316.2
72.5°	8620.6	5918.3	729.5	607.3	618.1	494.1	362.9	318.0	298.3	282.1	282.1
75°	5548.2	3611.4	609.1	540.8	504.9	384.5	314.4	283.9	264.1	247.9	247.9
77.5°	1866.8	1340.3	472.5	458.2	377.3	289.3	264.1	244.4	228.2	213.8	212.0
80°	758.2	636.0	346.8	346.8	264.1	221.0	206.6	197.6	186.9	168.9	168.9
82.5°	440.2	386.3	242.6	210.2	176.1	152.7	143.7	134.8	134.8	122.2	122.2
85°	212.0	213.8	145.5	129.4	100.6	88.0	84.4	79.1	77.3	70.1	68.3
87.5°	115.0	116.8	73.7	57.5	39.5	34.1	28.7	27.0	25.2	23.4	23.4
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)