

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: P641166

Luminaire Tested: GWS-SA5F-735-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32633.2 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

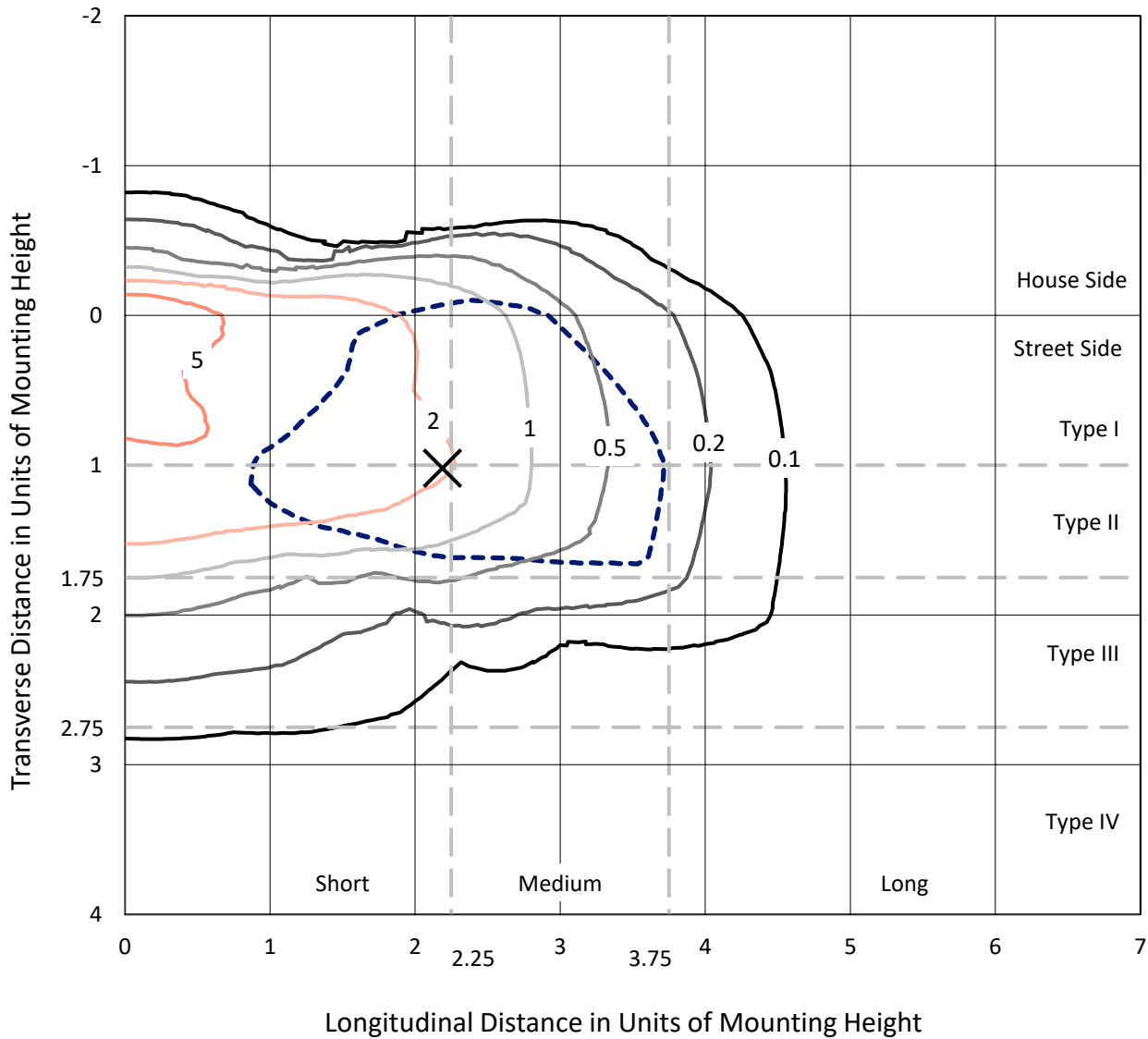
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

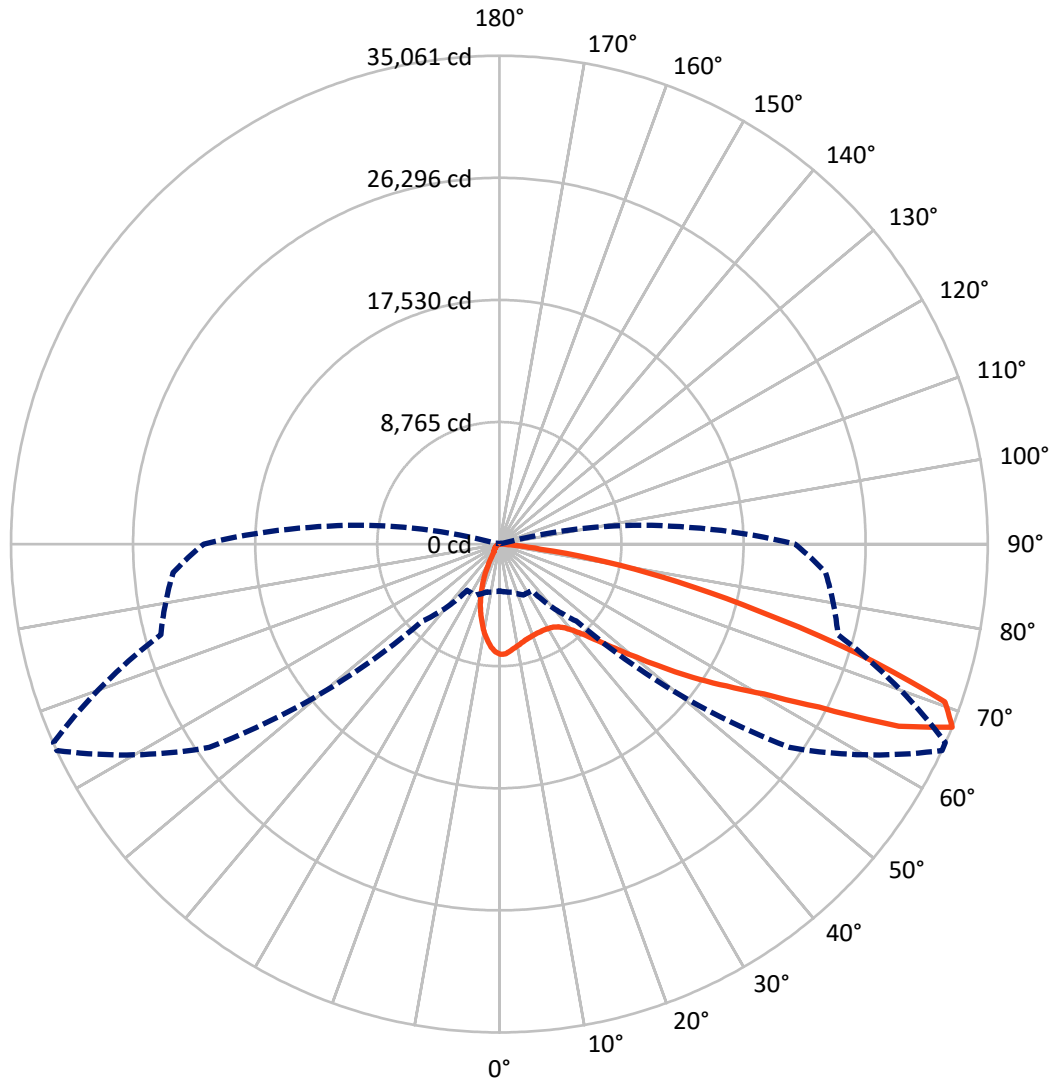
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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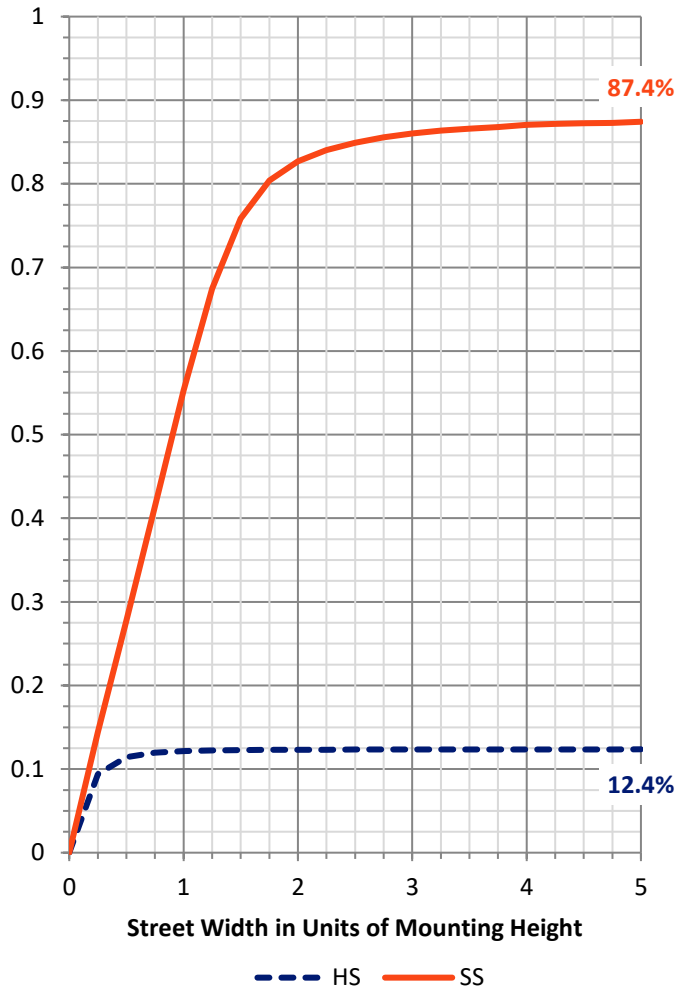
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4074.9	0.0	4074.9
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	28558.3	0.0	28558.3
	% Fixture	87.5	0.0	87.5
Total	Lumens	32633.2	0.0	32633.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.3	2.0
10°-20°	1477.7	4.5
20°-30°	2111.5	6.5
30°-40°	3072.0	9.4
40°-50°	4811.3	14.7
50°-60°	7505.7	23.0
60°-70°	8244.6	25.3
70°-80°	4387.8	13.4
80°-90°	365.3	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°	32633.2	100.0
0°-180°	32633.2	100.0

Coefficient of Utilization



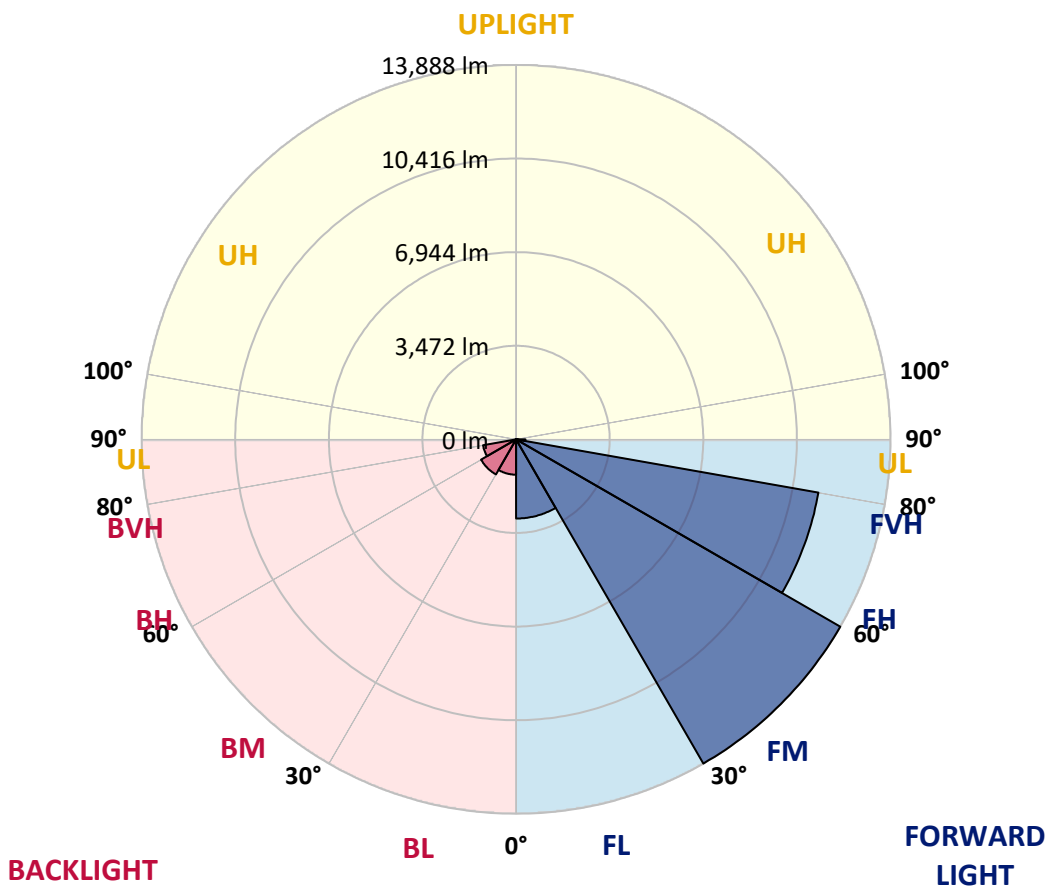
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2936.8	9.0			
FM (30°-60°)	13888.0	42.6			
FH (60°-80°)	11387.7	34.9			G4/12000
FVH (80°-90°)	345.8	1.1			G3/500
BL (0°-30°)	1309.8	4.0	B3/2500		
BM (30°-60°)	1501.0	4.6	B2/2500		
BH (60°-80°)	1244.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	19.5	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7914.6	7914.6	7914.6	7914.6	7914.6	7914.6	7914.6	7914.6	7914.6	7914.6	7914.6
2.5°	7640.1	7663.7	7631.3	7711.0	7725.7	7814.2	7864.4	7899.8	7896.9	7941.1	7941.1
5°	7191.6	7215.2	7197.5	7283.1	7350.9	7489.6	7604.7	7737.5	7743.4	7879.2	7929.3
7.5°	6810.9	6813.9	6813.9	6920.1	7008.6	7179.8	7350.9	7554.6	7578.2	7787.7	7920.5
10°	6498.1	6507.0	6509.9	6630.9	6728.3	6934.8	7153.2	7398.2	7424.7	7708.0	7914.6
12.5°	6282.7	6285.6	6297.4	6424.3	6530.6	6746.0	6967.3	7247.7	7283.1	7616.5	7888.0
15°	6179.4	6173.5	6179.4	6285.6	6391.9	6598.4	6825.7	7126.7	7165.0	7539.8	7891.0
17.5°	6173.5	6164.6	6158.7	6238.4	6306.3	6489.2	6719.4	7047.0	7088.3	7504.4	7923.4
20°	6259.1	6253.2	6223.7	6259.1	6273.8	6424.3	6651.6	6985.0	7026.3	7498.5	7994.3
22.5°	6483.3	6468.6	6424.3	6391.9	6312.2	6400.7	6604.3	6940.7	6988.0	7513.2	8085.7
25°	6816.8	6810.9	6754.8	6675.2	6471.5	6436.1	6607.3	6940.7	6985.0	7530.9	8183.1
27.5°	7318.5	7283.1	7212.2	7073.5	6781.4	6574.8	6666.3	6958.5	7002.7	7554.6	8262.8
30°	7829.0	7826.0	7802.4	7660.8	7227.0	6840.4	6790.2	7005.7	7047.0	7575.2	8336.6
32.5°	8357.2	8366.1	8425.1	8315.9	7840.8	7235.8	7014.5	7103.1	7132.6	7616.5	8401.5
35°	8858.9	8876.6	9033.0	9071.4	8587.4	7834.9	7380.4	7297.8	7300.8	7708.0	8487.1
37.5°	9339.9	9398.9	9649.8	9835.7	9517.0	8560.8	7908.7	7628.3	7604.7	7891.0	8616.9
40°	9885.8	9998.0	10313.7	10629.5	10529.2	9519.9	8628.7	8135.9	8085.7	8227.4	8850.0
42.5°	10490.8	10611.8	11030.8	11473.5	11520.7	10679.7	9528.8	8876.6	8791.0	8794.0	9286.8
45°	11140.0	11302.3	11789.2	12426.7	12712.9	11972.2	10638.4	9877.0	9791.4	9664.5	9989.1
47.5°	11992.9	12134.5	12603.7	13338.5	13887.4	13359.2	12093.2	11163.6	11007.2	10821.3	11081.0
50°	12727.7	12851.6	13255.9	14176.6	15318.6	15147.5	13742.8	12771.9	12621.4	12305.7	12521.1
52.5°	12890.0	12987.3	13359.2	14395.0	16413.5	17405.0	15764.2	14716.6	14610.4	14026.1	14108.7
55°	12161.1	12308.6	12642.1	13793.0	16699.7	19612.3	18387.7	16909.2	16687.9	15755.4	15902.9
57.5°	10319.6	10582.3	10895.1	12391.2	15923.6	20786.8	22052.8	19231.7	19031.0	17419.7	17422.7
60°	7563.4	7775.9	7985.4	9354.7	14082.2	20707.2	25378.6	21840.3	21474.4	18780.2	18730.0
62.5°	5500.7	5609.8	5606.9	6093.8	9670.4	19343.8	27125.6	25771.1	24918.2	20235.0	19948.8
65°	4326.2	4323.2	4450.1	4609.5	5400.3	14932.1	27341.0	31510.8	30590.1	22185.6	21589.5
67.5°	3367.1	3432.0	3558.9	4028.1	4057.6	7814.2	25446.5	35060.8	35043.1	25163.2	23510.6
70°	2596.9	2685.4	2865.4	3550.1	3747.8	4373.4	19039.8	33936.5	34222.7	26494.1	22150.2
72.5°	1667.3	1661.4	1927.0	2868.4	3600.2	3644.5	10529.2	26957.4	27282.0	23997.5	17909.6
75°	932.5	938.4	1088.9	1755.8	3355.3	3429.1	5214.4	19222.8	19479.5	18709.3	13760.5
77.5°	365.9	377.7	510.5	923.7	2213.2	3063.1	3098.5	13108.3	13146.7	11594.5	8439.9
80°	147.5	156.4	259.7	572.5	1348.6	2062.7	2213.2	7722.8	7566.4	4488.5	2455.2
82.5°	44.3	47.2	103.3	324.6	705.3	1466.6	1493.2	2962.8	2797.5	965.0	625.6
85°	3.0	3.0	23.6	100.3	250.8	368.9	994.5	965.0	855.8	242.0	277.4
87.5°	0.0	0.0	3.0	3.0	5.9	11.8	106.2	177.1	180.0	44.3	123.9
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°	7914.6	7914.6	7914.6	7914.6	7914.6	7914.6	7914.6	7914.6	7914.6	7914.6	7914.6
2.5°	7941.1	7834.9	7826.0	7743.4	7660.8	7557.5	7436.5	7348.0	7286.0	7176.8	7156.2
5°	7929.3	7787.7	7654.9	7418.8	7156.2	6872.9	6625.0	6394.8	6250.2	6152.8	6111.5
7.5°	7905.7	7725.7	7418.8	6973.2	6533.5	6037.7	5651.2	5297.0	5055.1	4913.4	4851.4
10°	7888.0	7646.0	7147.3	6471.5	5789.9	5105.2	4518.0	3992.7	3700.6	3470.4	3432.0
12.5°	7852.6	7530.9	6799.1	5884.3	5004.9	4096.0	3346.4	2703.1	2257.5	2056.8	1986.0
15°	7817.2	7410.0	6450.9	5264.6	4149.1	3027.7	2118.8	1499.1	1192.2	1097.8	1091.9
17.5°	7811.3	7300.8	6073.2	4677.3	3252.0	1983.1	1207.0	970.9	906.0	882.3	882.3
20°	7829.0	7209.3	5701.3	4001.6	2369.7	1207.0	900.1	841.0	802.7	782.0	782.0
22.5°	7846.7	7114.9	5344.3	3319.9	1572.9	882.3	793.8	743.7	699.4	675.8	664.0
25°	7858.5	7011.6	4948.8	2635.2	1026.9	767.3	696.4	631.5	578.4	548.9	548.9
27.5°	7855.6	6887.6	4550.4	1965.4	796.8	681.7	596.1	528.2	475.1	442.6	445.6
30°	7832.0	6751.9	4137.3	1372.2	696.4	596.1	510.5	439.7	386.6	360.0	357.1
32.5°	7814.2	6607.3	3659.2	965.0	625.6	522.3	433.8	365.9	321.7	301.0	298.1
35°	7793.6	6465.6	3204.8	734.8	563.6	451.5	365.9	309.9	274.4	256.7	256.7
37.5°	7799.5	6318.1	2712.0	631.5	501.7	392.5	312.8	265.6	236.1	218.4	215.4
40°	7891.0	6229.6	2228.0	572.5	445.6	339.4	271.5	230.2	200.7	183.0	180.0
42.5°	8118.2	6232.5	1764.7	528.2	395.4	289.2	236.1	197.7	171.2	150.5	147.5
45°	8572.7	6356.5	1354.5	481.0	342.3	250.8	203.6	168.2	141.6	123.9	121.0
47.5°	9316.3	6725.3	1026.9	439.7	298.1	218.4	174.1	141.6	118.0	103.3	100.3
50°	10499.7	7392.3	808.6	389.5	250.8	188.9	147.5	118.0	97.4	82.6	79.7
52.5°	11922.0	8392.6	693.5	345.3	215.4	165.3	126.9	97.4	79.7	67.9	64.9
55°	13556.9	9587.8	640.4	301.0	183.0	141.6	103.3	79.7	64.9	56.1	50.2
57.5°	15056.0	10664.9	637.4	256.7	156.4	121.0	85.6	67.9	56.1	44.3	41.3
60°	16516.7	11565.0	599.1	212.5	135.7	100.3	73.8	56.1	47.2	38.4	35.4
62.5°	17841.7	12296.8	501.7	171.2	115.1	82.6	62.0	50.2	41.3	32.5	32.5
65°	19506.1	13229.3	383.6	138.7	94.4	67.9	53.1	44.3	38.4	29.5	29.5
67.5°	21226.5	13722.1	274.4	115.1	76.7	59.0	47.2	41.3	32.5	26.6	26.6
70°	19225.8	11594.5	197.7	94.4	64.9	50.2	41.3	38.4	32.5	26.6	23.6
72.5°	15014.7	8360.2	147.5	73.8	56.1	47.2	38.4	35.4	29.5	23.6	23.6
75°	11134.1	4875.1	112.1	59.0	44.3	38.4	38.4	35.4	29.5	23.6	20.7
77.5°	6052.5	1699.8	85.6	47.2	35.4	29.5	32.5	32.5	26.6	20.7	17.7
80°	1602.4	466.3	59.0	35.4	29.5	23.6	23.6	29.5	23.6	17.7	17.7
82.5°	466.3	135.7	41.3	29.5	23.6	20.7	20.7	20.7	17.7	14.8	11.8
85°	227.2	50.2	29.5	23.6	20.7	17.7	14.8	14.8	11.8	8.9	8.9
87.5°	100.3	20.7	23.6	20.7	20.7	14.8	11.8	8.9	8.9	5.9	3.0
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)