

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: P638695

Luminaire Tested: GWS-SA4F-735-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27179.5 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

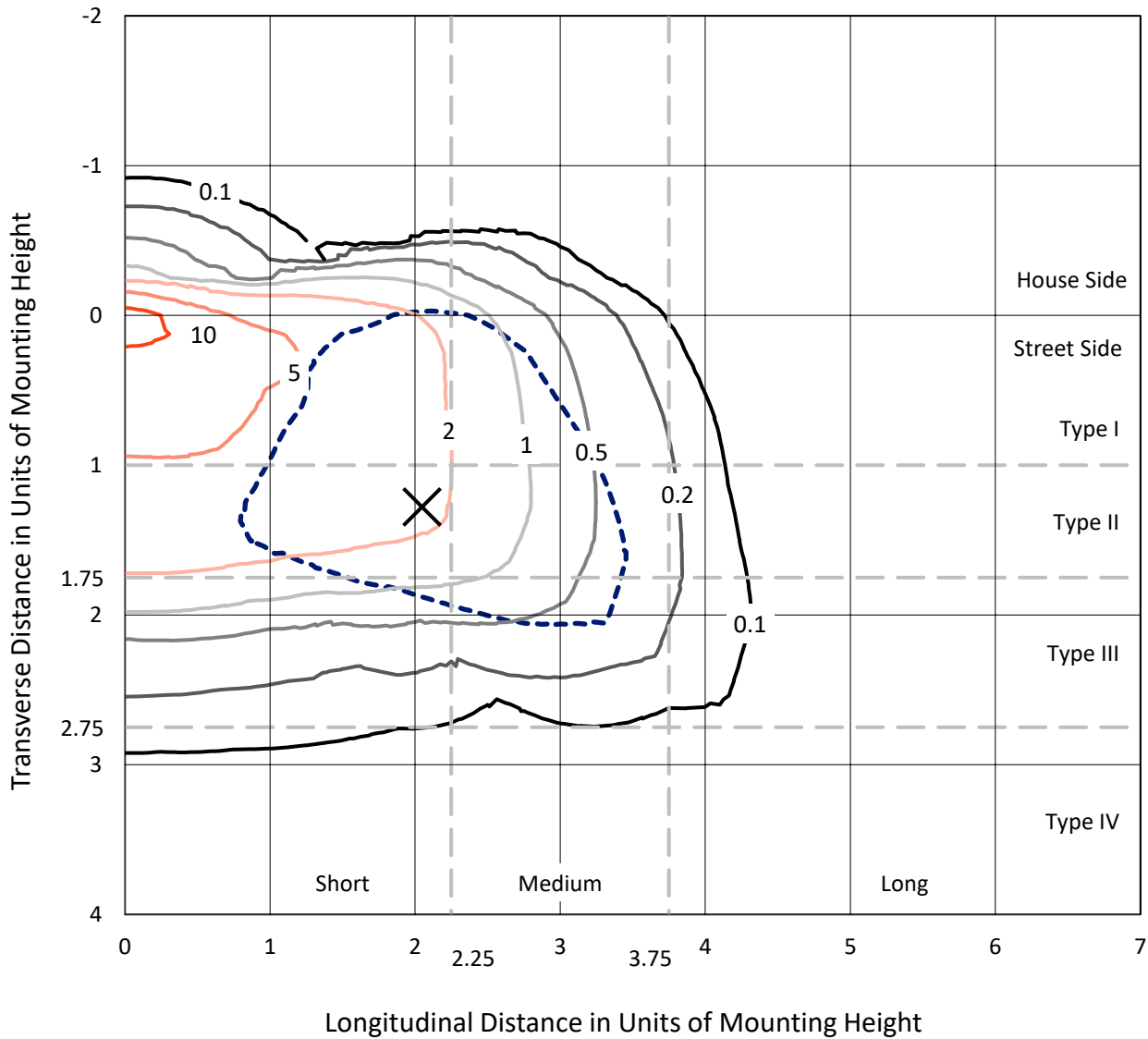
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

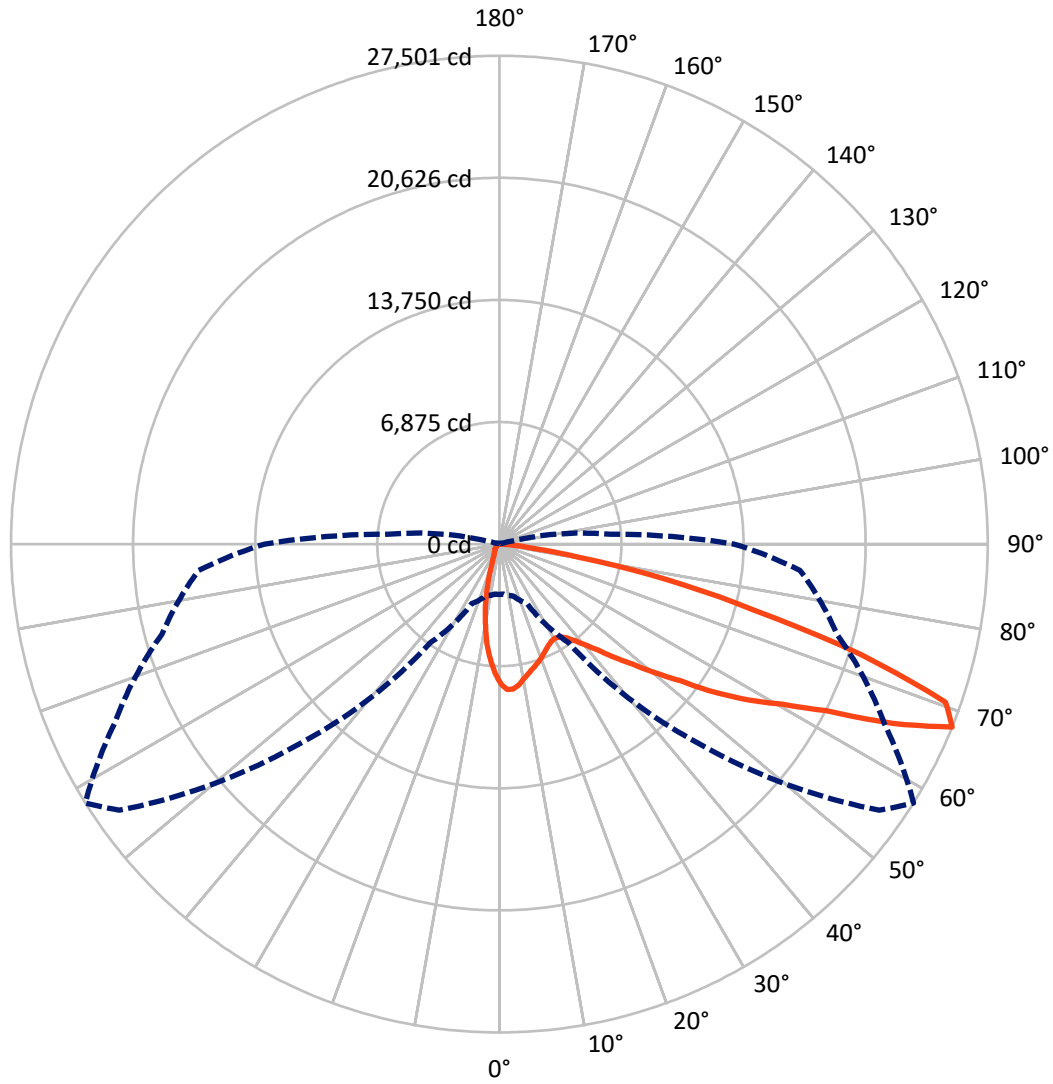
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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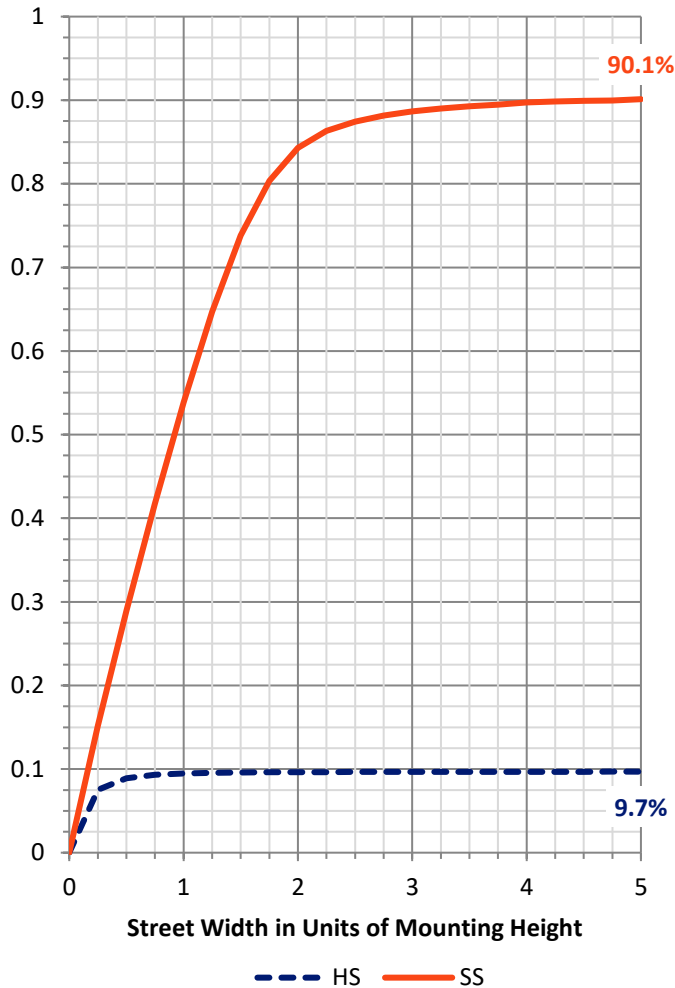
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2655.3	0.0	2655.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	24524.2	0.0	24524.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	27179.5	0.0	27179.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.1	2.3
10°-20°	1326.1	4.9
20°-30°	1788.4	6.6
30°-40°	2513.0	9.2
40°-50°	3881.2	14.3
50°-60°	6206.5	22.8
60°-70°	7348.9	27.0
70°-80°	3251.0	12.0
80°-90°	227.3	0.8
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°	27179.5	100.0
0°-180°	27179.5	100.0

Coefficient of Utilization



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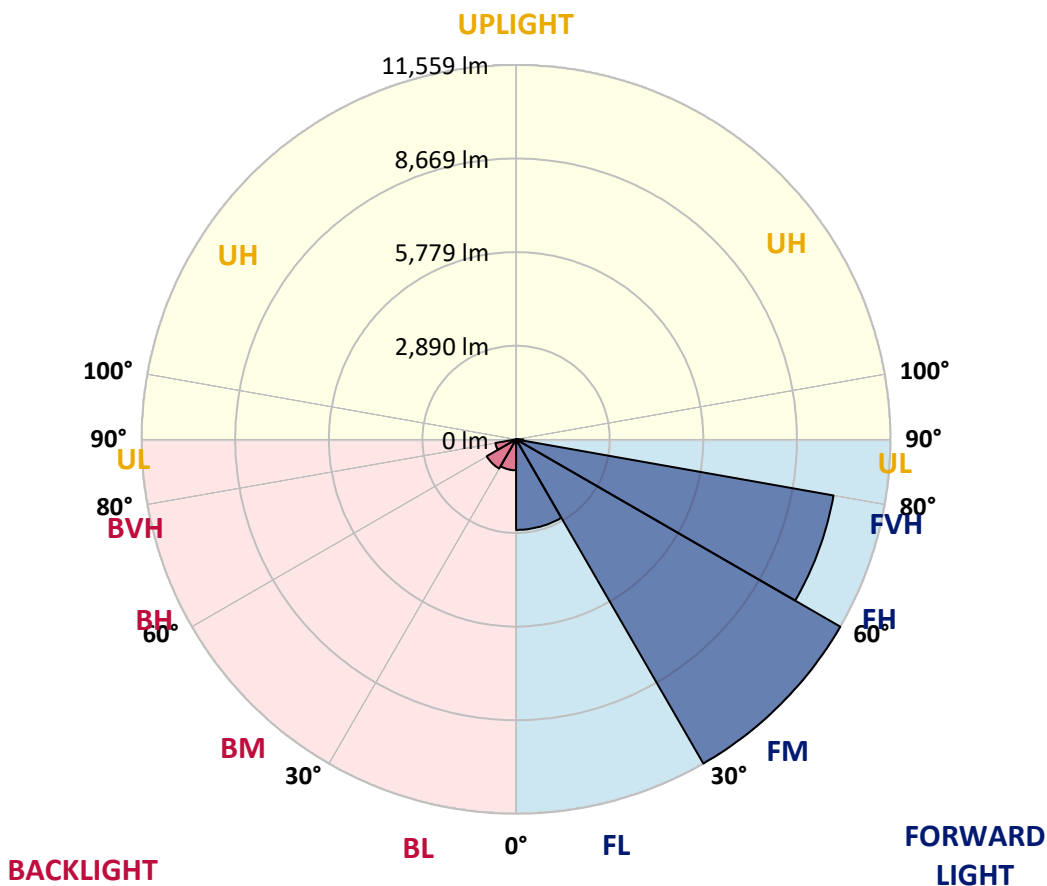
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2796.1	10.3			
FM (30°-60°)	11558.9	42.5			
FH (60°-80°)	9951.7	36.6			G4/12000
FVH (80°-90°)	217.6	0.8			G2/225
BL (0°-30°)	955.5	3.5	B2/1000		
BM (30°-60°)	1041.8	3.8	B2/2500		
BH (60°-80°)	648.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	9.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8
2.5°	8246.4	8260.8	8280.1	8304.1	8299.3	8277.7	8251.2	8191.1	8152.6	8032.3	7885.5
5°	7981.8	7979.4	8027.5	8073.2	8155.0	8198.3	8258.4	8203.1	8183.8	8039.5	7801.4
7.5°	7464.6	7491.0	7546.4	7618.5	7736.4	7863.9	8008.2	7991.4	8049.1	7952.9	7657.0
10°	6957.0	6942.6	7029.2	7137.4	7317.8	7481.4	7690.7	7688.3	7839.8	7830.2	7493.4
12.5°	6512.0	6509.5	6576.9	6699.6	6911.3	7139.8	7423.7	7430.9	7618.5	7695.5	7353.9
15°	6136.7	6141.5	6206.4	6333.9	6552.8	6831.9	7161.5	7221.6	7433.3	7589.7	7216.8
17.5°	5869.7	5872.1	5910.6	6021.2	6235.3	6533.6	6930.5	7012.3	7284.2	7510.3	7106.1
20°	5747.0	5737.4	5744.6	5799.9	5965.9	6237.7	6694.8	6800.6	7147.0	7454.9	7005.1
22.5°	5763.8	5749.4	5715.7	5708.5	5783.1	5989.9	6444.6	6574.5	6997.9	7421.3	6913.7
25°	5913.0	5881.7	5833.6	5761.4	5732.5	5836.0	6225.7	6360.4	6858.4	7423.7	6843.9
27.5°	6141.5	6107.8	6047.7	5951.4	5838.4	5795.1	6076.5	6204.0	6759.7	7479.0	6810.2
30°	6432.6	6406.1	6348.4	6232.9	6081.4	5903.3	6045.3	6151.1	6711.6	7592.1	6824.7
32.5°	6776.6	6757.3	6709.2	6603.4	6430.2	6158.3	6151.1	6232.9	6750.1	7755.6	6880.0
35°	7108.5	7115.8	7118.2	7060.4	6875.2	6545.6	6442.2	6471.1	6908.9	8001.0	7005.1
37.5°	7467.0	7450.1	7536.7	7577.6	7399.6	7048.4	6892.0	6894.4	7212.0	8364.3	7240.8
40°	7738.8	7743.6	7931.3	8099.6	8025.1	7685.9	7462.2	7459.8	7678.7	8862.2	7620.9
42.5°	7993.8	8025.1	8301.7	8590.4	8693.8	8393.1	8232.0	8171.8	8333.0	9535.8	8191.1
45°	8265.6	8311.3	8698.6	9110.0	9381.8	9203.8	9076.3	9100.4	9119.6	10320.0	8958.4
47.5°	8583.2	8612.0	9090.8	9670.5	10178.1	10132.4	10139.6	10110.7	10101.1	11308.7	9973.6
50°	8968.1	9035.4	9586.3	10279.1	10971.9	11275.0	11376.1	11388.1	11231.7	12386.4	11024.9
52.5°	9786.0	9867.8	10339.3	10945.5	11837.9	12475.4	12886.8	12805.0	12564.4	13430.5	12177.1
55°	10750.6	10813.2	11267.8	11895.7	12896.4	13791.3	14768.0	14734.3	14144.9	14529.8	13124.9
57.5°	10842.0	10911.8	11616.6	12578.9	14255.6	15417.5	16444.7	16552.9	15689.3	15309.2	13971.7
60°	9814.8	9956.8	10919.0	12213.2	14775.2	17604.2	18282.5	18304.2	16822.3	16100.7	15006.1
62.5°	7866.3	7933.7	8903.1	10591.8	13974.1	18879.1	21089.9	20632.8	18277.7	17325.1	16644.3
65°	4123.2	4397.4	5241.8	7110.9	11332.8	18434.1	24467.3	24342.2	20895.0	19078.8	17919.3
67.5°	2829.0	2826.6	3026.2	3707.0	6757.3	15872.1	26124.8	27500.8	23921.3	19680.2	16995.5
70°	2153.0	2160.2	2338.2	2780.9	3500.1	10565.4	24306.2	26658.8	24484.2	17868.8	13745.6
72.5°	1428.9	1443.4	1739.2	2246.8	2795.3	5179.3	18888.8	21330.4	20601.5	14351.8	9675.3
75°	854.0	866.0	1077.7	1633.4	2485.0	2898.7	12001.5	14746.3	14181.0	9891.8	5186.5
77.5°	351.2	360.8	553.3	1017.6	1818.6	2251.6	6637.0	9648.9	8494.2	3933.2	1416.9
80°	146.7	151.6	267.0	712.1	1311.1	1412.1	3074.4	4534.6	3480.9	846.8	433.0
82.5°	52.9	55.3	98.6	392.1	815.5	1063.3	1551.6	1792.2	981.5	276.6	233.3
85°	2.4	2.4	24.1	132.3	310.3	300.7	887.7	858.8	324.8	115.5	139.5
87.5°	0.0	0.0	2.4	2.4	4.8	12.0	84.2	149.1	69.8	28.9	60.1
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°	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8
2.5°	7789.3	7661.8	7522.3	7392.4	7185.5	7062.8	6911.3	6843.9	6747.7	6723.6	6738.1
5°	7630.6	7411.6	7077.3	6774.2	6382.1	6066.9	5749.4	5614.7	5441.5	5326.0	5277.9
7.5°	7406.8	7120.6	6598.6	6047.7	5508.8	4933.9	4496.1	4207.4	3945.2	3800.8	3772.0
10°	7180.7	6807.8	6059.7	5270.7	4435.9	3747.9	3156.1	2718.3	2362.3	2201.1	2076.0
12.5°	6947.4	6483.1	5511.2	4481.6	3512.2	2574.0	1842.7	1416.9	1161.9	1060.9	1077.7
15°	6733.3	6170.4	4967.6	3692.6	2473.0	1554.0	1017.6	858.8	798.7	779.4	777.0
17.5°	6528.8	5874.5	4426.3	2925.2	1631.0	952.6	779.4	740.9	724.1	714.5	714.5
20°	6343.6	5590.6	3897.1	2203.5	1053.7	755.4	704.8	685.6	671.2	663.9	663.9
22.5°	6170.4	5316.4	3379.9	1558.8	777.0	678.4	647.1	627.9	611.0	601.4	601.4
25°	6014.0	5068.6	2886.7	1072.9	668.8	620.6	587.0	565.3	536.4	519.6	519.6
27.5°	5900.9	4847.3	2412.8	781.8	603.8	558.1	519.6	490.7	459.5	440.2	435.4
30°	5833.6	4659.6	1934.1	642.3	543.7	498.0	454.7	418.6	382.5	363.2	360.8
32.5°	5795.1	4486.4	1496.3	560.5	493.1	440.2	392.1	353.6	317.5	295.9	293.5
35°	5809.5	4351.7	1121.0	505.2	445.0	389.7	336.8	298.3	267.0	247.8	243.0
37.5°	5934.6	4291.6	842.0	461.9	404.1	346.4	291.1	255.0	226.1	211.7	209.3
40°	6177.6	4303.6	661.5	428.2	370.5	303.1	250.2	216.5	194.9	182.8	180.4
42.5°	6555.3	4404.6	546.1	399.3	334.4	264.6	216.5	190.0	168.4	156.4	154.0
45°	7118.2	4613.9	476.3	365.7	295.9	228.5	187.6	163.6	144.3	129.9	127.5
47.5°	7933.7	4977.2	430.6	334.4	262.2	197.3	161.2	137.1	120.3	108.3	105.8
50°	8802.1	5412.6	392.1	303.1	233.3	170.8	137.1	113.1	98.6	86.6	84.2
52.5°	9728.2	5881.7	363.2	274.2	206.9	146.7	115.5	93.8	79.4	67.4	65.0
55°	10618.3	6353.2	329.6	255.0	175.6	125.1	96.2	77.0	62.5	52.9	52.9
57.5°	11484.3	6786.2	293.5	223.7	144.3	105.8	79.4	62.5	50.5	43.3	40.9
60°	12518.7	7385.2	252.6	190.0	120.3	89.0	65.0	50.5	40.9	33.7	33.7
62.5°	14055.9	8008.2	216.5	158.8	101.0	74.6	52.9	40.9	33.7	28.9	26.5
65°	14558.7	7671.5	182.8	129.9	81.8	60.1	43.3	36.1	28.9	26.5	24.1
67.5°	13216.4	6288.2	151.6	105.8	67.4	50.5	38.5	31.3	26.5	24.1	21.7
70°	10312.8	4462.4	117.9	79.4	55.3	40.9	33.7	28.9	24.1	21.7	21.7
72.5°	7014.7	2638.9	93.8	60.1	45.7	36.1	28.9	26.5	24.1	21.7	19.2
75°	3454.4	938.2	72.2	45.7	36.1	31.3	26.5	24.1	21.7	19.2	19.2
77.5°	931.0	259.8	55.3	36.1	28.9	24.1	24.1	24.1	21.7	16.8	16.8
80°	315.1	108.3	40.9	26.5	24.1	19.2	16.8	21.7	19.2	16.8	14.4
82.5°	173.2	52.9	28.9	21.7	16.8	14.4	14.4	14.4	14.4	12.0	12.0
85°	110.7	28.9	19.2	16.8	16.8	12.0	9.6	9.6	7.2	7.2	7.2
87.5°	50.5	16.8	16.8	14.4	14.4	12.0	7.2	4.8	2.4	2.4	2.4
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)