

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: P636239

Luminaire Tested: GWS-SA3F-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19448.7 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

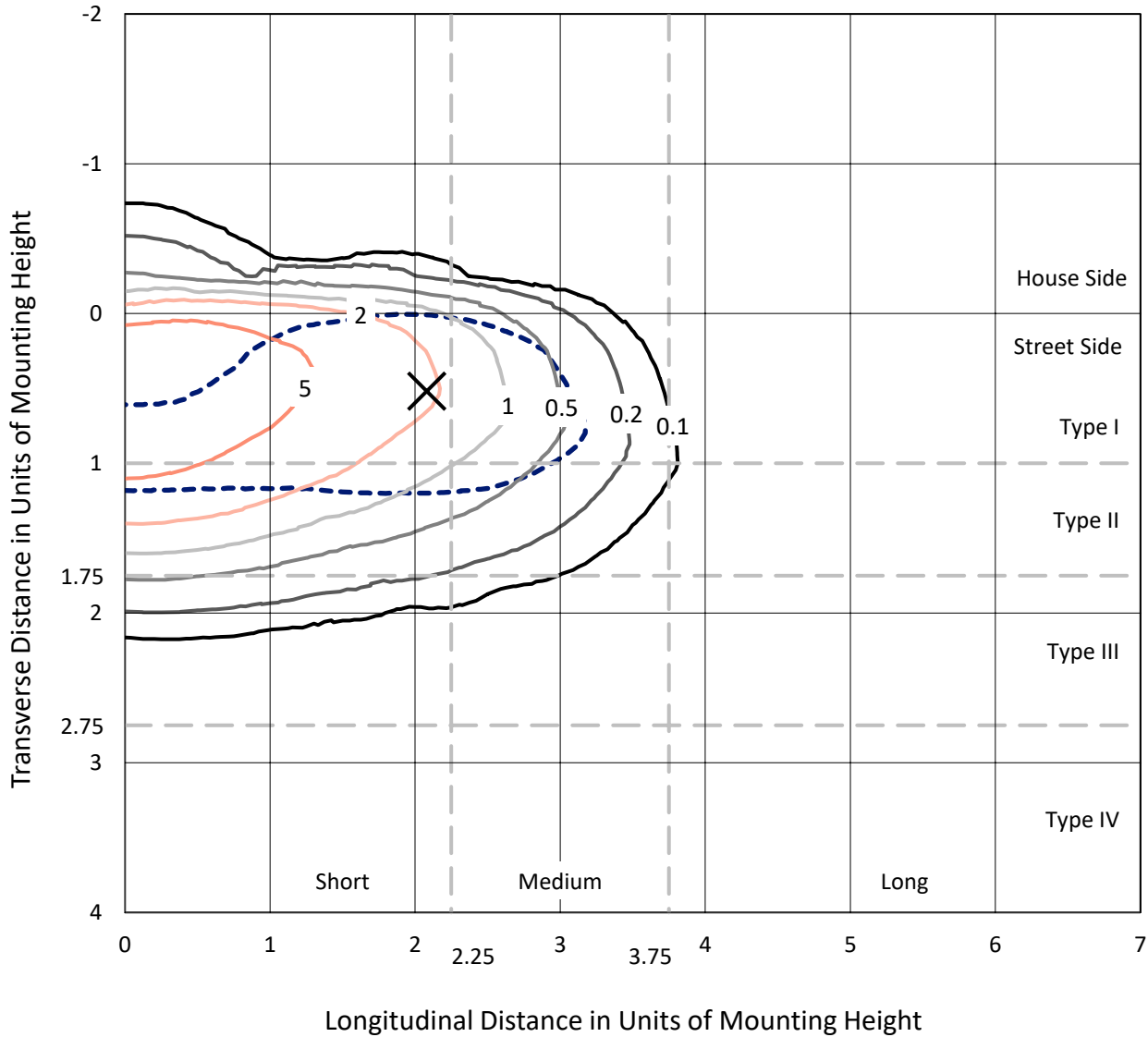
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

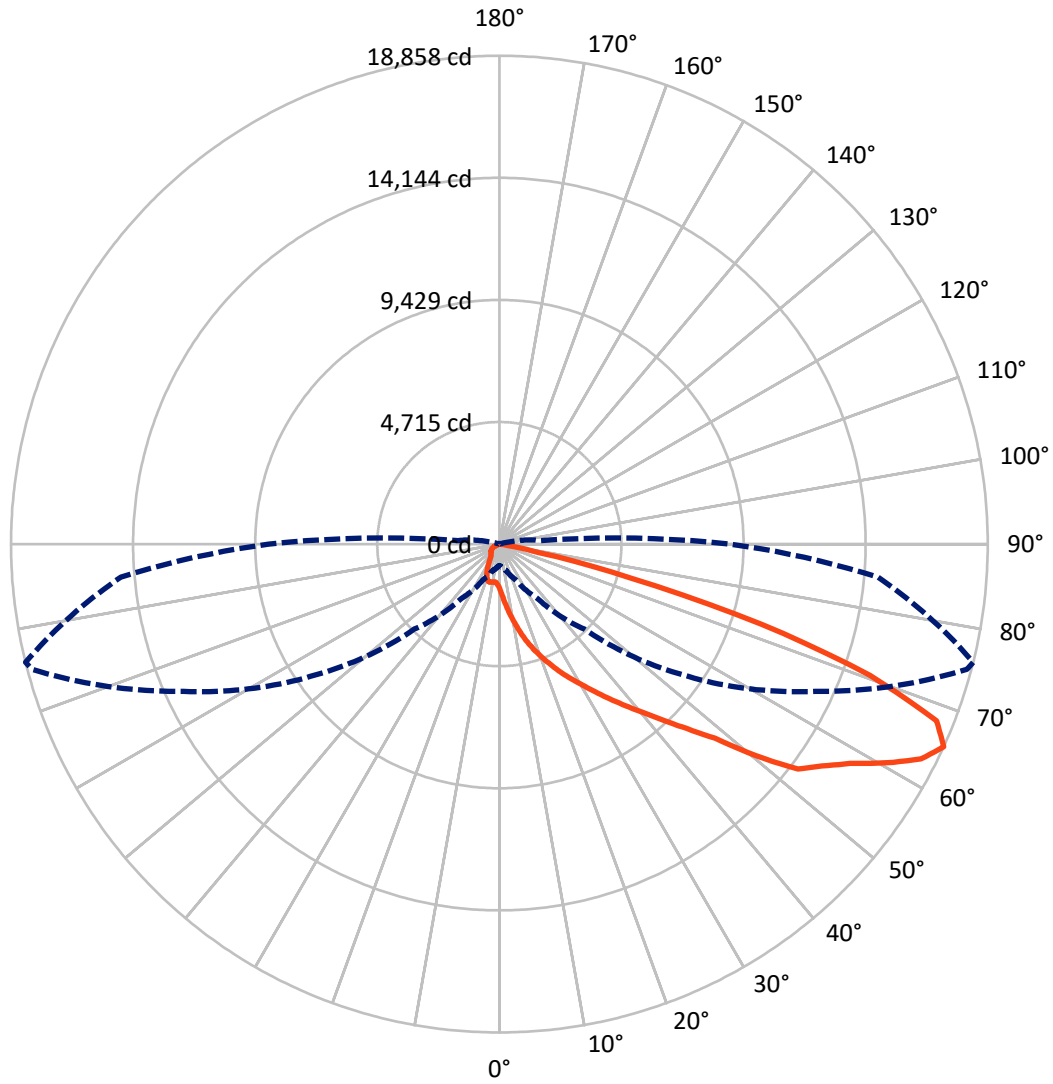
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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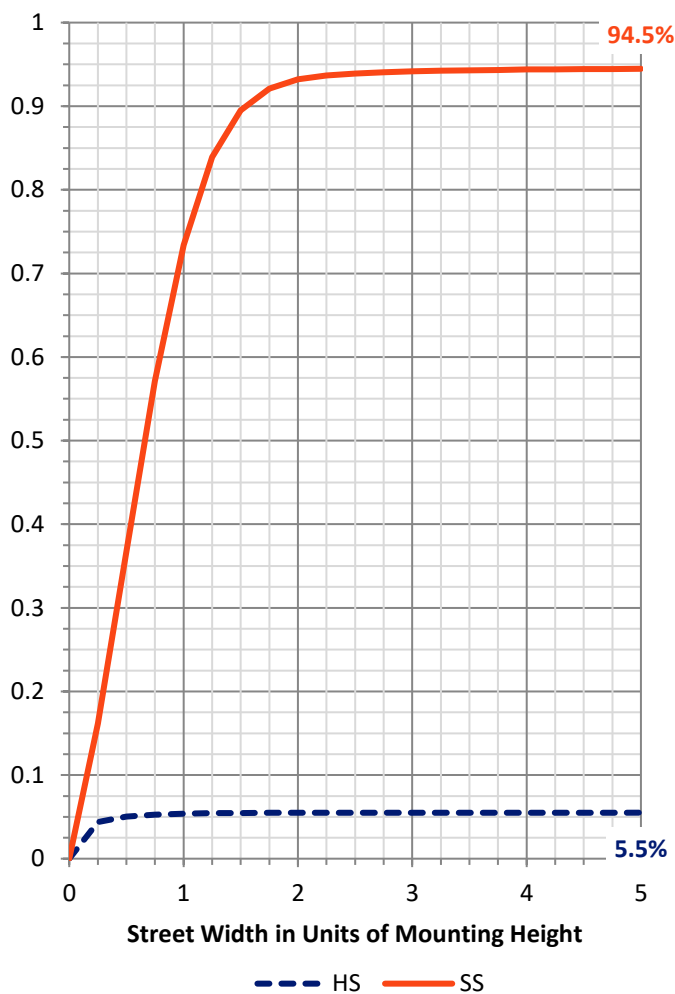
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1075.4	0.0	1075.4
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	18373.3	0.0	18373.3
	% Fixture	94.5	0.0	94.5
Total	Lumens	19448.7	0.0	19448.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	1.1
10°-20°	794.9	4.1
20°-30°	1621.6	8.3
30°-40°	2884.2	14.8
40°-50°	4263.5	21.9
50°-60°	4881.3	25.1
60°-70°	3724.2	19.1
70°-80°	1043.2	5.4
80°-90°	26.3	0.1
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°	19448.7	100.0
0°-180°	19448.7	100.0

Coefficient of Utilization



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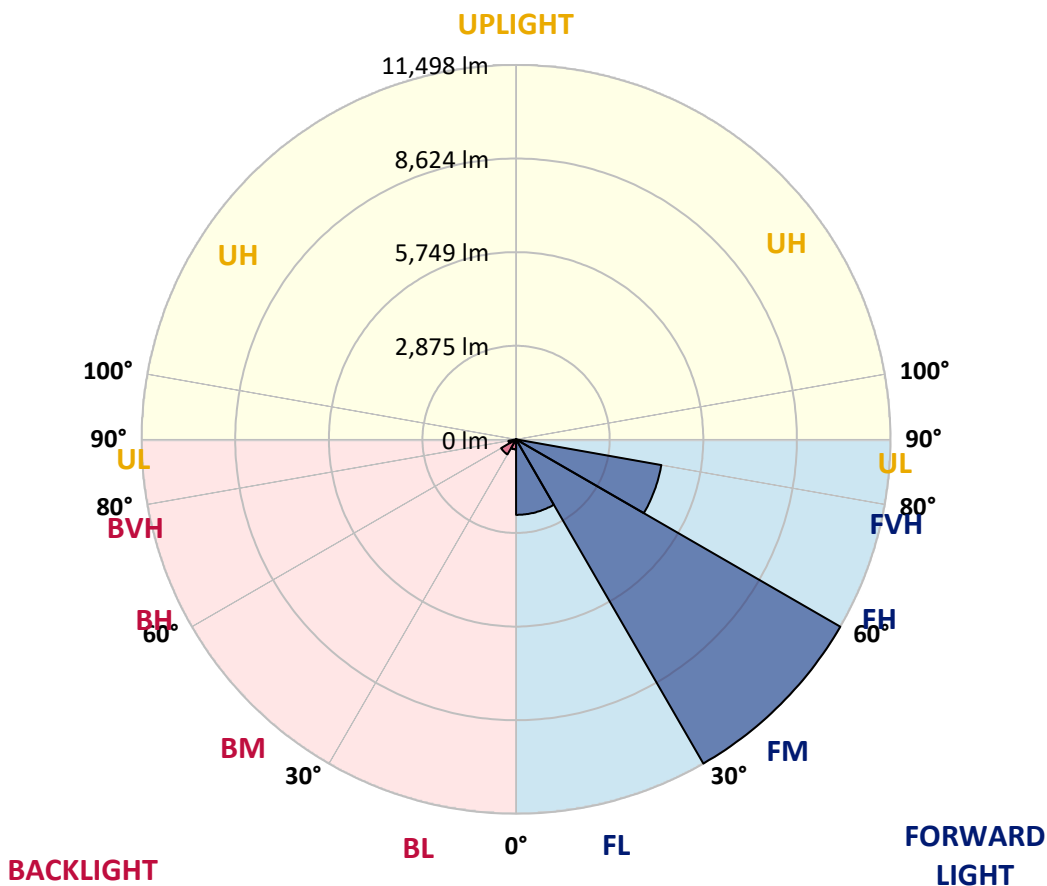
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2319.1	11.9			
FM (30°-60°)	11498.4	59.1			
FH (60°-80°)	4531.1	23.3			G2/5000
FVH (80°-90°)	24.7	0.1			G1/100
BL (0°-30°)	306.9	1.6	B1/500		
BM (30°-60°)	530.6	2.7	B1/1000		
BH (60°-80°)	236.4	1.2	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9
2.5°	2653.8	2693.5	2662.4	2610.5	2510.3	2413.5	2289.0	2117.8	1981.2	1964.0	1836.0
5°	3583.9	3580.4	3513.0	3445.6	3340.1	3174.1	2923.5	2605.4	2299.4	2273.4	1986.4
7.5°	4137.1	4142.3	4104.3	4052.4	3948.7	3777.5	3516.4	3132.6	2684.9	2633.0	2192.2
10°	4602.2	4600.4	4572.8	4548.6	4455.2	4341.1	4061.0	3639.2	3099.8	3018.5	2422.1
12.5°	4951.4	4963.5	4977.3	5001.5	4961.8	4849.4	4584.9	4125.0	3519.9	3430.0	2684.9
15°	5228.0	5231.5	5283.3	5376.7	5409.5	5350.7	5110.4	4595.2	3934.8	3857.0	2987.4
17.5°	5311.0	5317.9	5406.1	5577.2	5750.1	5783.0	5601.4	5068.9	4342.8	4259.8	3281.3
20°	5485.6	5501.2	5566.8	5717.3	5935.1	6111.4	6040.5	5547.8	4750.8	4641.9	3582.1
22.5°	6035.4	6044.0	6021.5	6040.5	6152.9	6356.9	6400.1	6011.2	5169.2	5053.4	3907.2
25°	6981.0	6984.5	6827.2	6678.5	6593.8	6631.8	6726.9	6438.2	5584.1	5470.0	4209.7
27.5°	7963.0	7975.1	7786.7	7534.3	7231.7	7058.8	7031.2	6828.9	6002.5	5876.3	4508.8
30°	8887.9	8887.9	8689.1	8381.4	7976.8	7639.7	7440.9	7223.1	6450.3	6312.0	4814.8
32.5°	9719.5	9712.6	9458.5	9124.8	8725.4	8355.5	7937.1	7634.5	6948.2	6794.3	5167.5
35°	10405.9	10388.6	10099.9	9780.0	9353.0	9078.1	8611.3	8077.1	7487.6	7333.7	5530.5
37.5°	10924.5	10905.5	10641.0	10302.1	9906.2	9728.2	9337.4	8607.9	8056.4	7916.3	5933.4
40°	11206.3	11168.3	10985.0	10732.6	10400.7	10245.1	10082.6	9266.6	8725.4	8550.8	6408.8
42.5°	11289.3	11244.3	11123.3	11005.8	10805.2	10682.5	10857.1	10010.0	9460.2	9309.8	6951.6
45°	11043.8	11017.9	11007.5	11092.2	11128.5	11163.1	11593.6	10832.9	10271.0	10156.9	7634.5
47.5°	10452.5	10445.6	10537.2	10889.9	11273.7	11638.5	12394.0	11847.7	11322.1	11199.4	8588.9
50°	9359.9	9430.8	9686.7	10305.6	11073.2	11908.2	13142.6	13255.0	13023.3	12843.5	9833.6
52.5°	7651.8	7788.4	8362.4	9302.9	10405.9	11832.1	13488.4	14382.2	14619.0	14432.3	10725.7
55°	6004.2	6132.2	6643.9	7836.8	9308.0	11253.0	13503.9	14771.2	15288.1	15115.2	11329.1
57.5°	4472.5	4590.1	5055.1	6196.1	7814.3	10113.7	13134.0	14987.3	16081.6	15971.0	12281.6
60°	2923.5	3039.3	3459.4	4456.9	6061.3	8454.0	12222.9	14942.3	17162.1	17151.8	13452.1
62.5°	1621.6	1713.3	2017.6	2795.5	4230.5	6547.1	10791.4	14491.1	18208.1	18273.8	14416.8
65°	829.8	888.6	1073.6	1536.9	2560.4	4641.9	8908.7	13457.2	18692.2	18858.1	14670.9
67.5°	542.9	561.9	606.8	798.7	1371.0	2920.0	6704.4	11799.3	18011.0	18204.6	13818.6
70°	440.9	456.4	482.3	532.5	707.1	1550.8	4403.3	9423.9	15049.5	15180.9	11004.0
72.5°	323.3	344.0	394.2	427.0	510.0	850.6	2290.7	6185.8	10335.0	10566.6	6915.3
75°	238.6	250.7	292.2	337.1	416.6	537.7	876.5	3251.9	5336.9	5202.1	2904.4
77.5°	143.5	152.1	186.7	216.1	297.4	335.4	306.0	1201.5	1623.4	1526.6	701.9
80°	70.9	79.5	122.7	162.5	190.2	134.8	127.9	335.4	361.3	361.3	176.3
82.5°	24.2	31.1	65.7	107.2	93.4	51.9	60.5	86.4	96.8	102.0	51.9
85°	0.0	0.0	15.6	31.1	13.8	6.9	15.6	19.0	24.2	25.9	17.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	6.9	6.9
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°	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9
2.5°	1766.9	1685.6	1562.9	1452.2	1367.5	1288.0	1227.5	1179.1	1170.4	1142.8	1146.2
5°	1846.4	1699.4	1473.0	1298.4	1175.6	1092.6	1023.5	971.6	949.1	926.7	909.4
7.5°	1969.1	1756.5	1438.4	1225.7	1082.3	954.3	847.1	760.7	719.2	693.3	676.0
10°	2119.6	1836.0	1440.1	1182.5	969.9	774.5	627.6	532.5	487.5	473.7	472.0
12.5°	2299.4	1936.3	1453.9	1111.6	807.4	575.7	465.1	421.8	408.0	395.9	395.9
15°	2489.5	2048.7	1453.9	982.0	615.5	449.5	402.8	375.2	357.9	351.0	347.5
17.5°	2690.1	2154.1	1419.4	803.9	472.0	395.9	357.9	331.9	318.1	307.7	304.3
20°	2904.4	2254.4	1332.9	615.5	404.5	354.4	318.1	292.2	278.3	268.0	268.0
22.5°	3122.3	2347.8	1192.9	473.7	357.9	314.6	280.1	255.9	242.0	231.7	231.7
25°	3324.5	2410.0	1013.1	390.7	323.3	280.1	249.0	224.7	209.2	202.3	198.8
27.5°	3513.0	2449.8	814.3	344.0	290.4	250.7	217.8	195.4	183.3	178.1	174.6
30°	3708.4	2460.1	622.4	312.9	262.8	221.3	190.2	172.9	162.5	155.6	155.6
32.5°	3898.5	2448.0	475.4	287.0	238.6	195.4	169.4	153.9	145.2	140.0	138.3
35°	4092.2	2392.7	385.5	264.5	214.4	171.2	150.4	138.3	133.1	126.2	126.2
37.5°	4303.1	2318.4	335.4	242.0	190.2	153.9	134.8	126.2	119.3	114.1	112.4
40°	4565.9	2231.9	307.7	223.0	167.7	138.3	121.0	112.4	107.2	102.0	100.3
42.5°	4877.0	2147.2	293.9	202.3	150.4	122.7	108.9	98.5	93.4	86.4	84.7
45°	5317.9	2128.2	278.3	179.8	134.8	110.6	95.1	84.7	77.8	72.6	70.9
47.5°	6026.7	2181.8	252.4	155.6	119.3	96.8	81.3	72.6	64.0	58.8	55.3
50°	6730.4	2168.0	226.5	134.8	105.5	83.0	69.2	60.5	51.9	46.7	44.9
52.5°	7114.2	2102.3	202.3	119.3	91.6	70.9	58.8	48.4	43.2	38.0	36.3
55°	7461.7	2076.3	178.1	103.7	77.8	62.2	48.4	39.8	36.3	31.1	29.4
57.5°	8142.8	2136.8	157.3	89.9	67.4	53.6	41.5	32.8	29.4	24.2	22.5
60°	8855.1	2143.8	134.8	77.8	58.8	44.9	32.8	25.9	22.5	17.3	15.6
62.5°	9226.8	1969.1	110.6	65.7	48.4	38.0	27.7	20.7	17.3	10.4	10.4
65°	8915.6	1592.3	93.4	53.6	38.0	29.4	20.7	15.6	10.4	5.2	1.7
67.5°	7890.4	1132.4	77.8	43.2	27.7	20.7	15.6	10.4	1.7	0.0	0.0
70°	5777.8	646.6	60.5	31.1	20.7	13.8	10.4	5.2	0.0	0.0	0.0
72.5°	3551.0	345.8	44.9	20.7	15.6	10.4	8.6	3.5	0.0	0.0	0.0
75°	1346.8	166.0	27.7	13.8	12.1	8.6	5.2	1.7	0.0	0.0	0.0
77.5°	364.8	81.3	15.6	10.4	8.6	5.2	3.5	0.0	0.0	0.0	0.0
80°	95.1	38.0	10.4	6.9	5.2	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	32.8	17.3	5.2	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
85°	13.8	6.9	3.5	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	1.7	1.7	1.7	1.7	0.0	0.0	0.0	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)