

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: P636734

Luminaire Tested: GWS-SA4B-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636734
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-SA4B-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11513.3 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

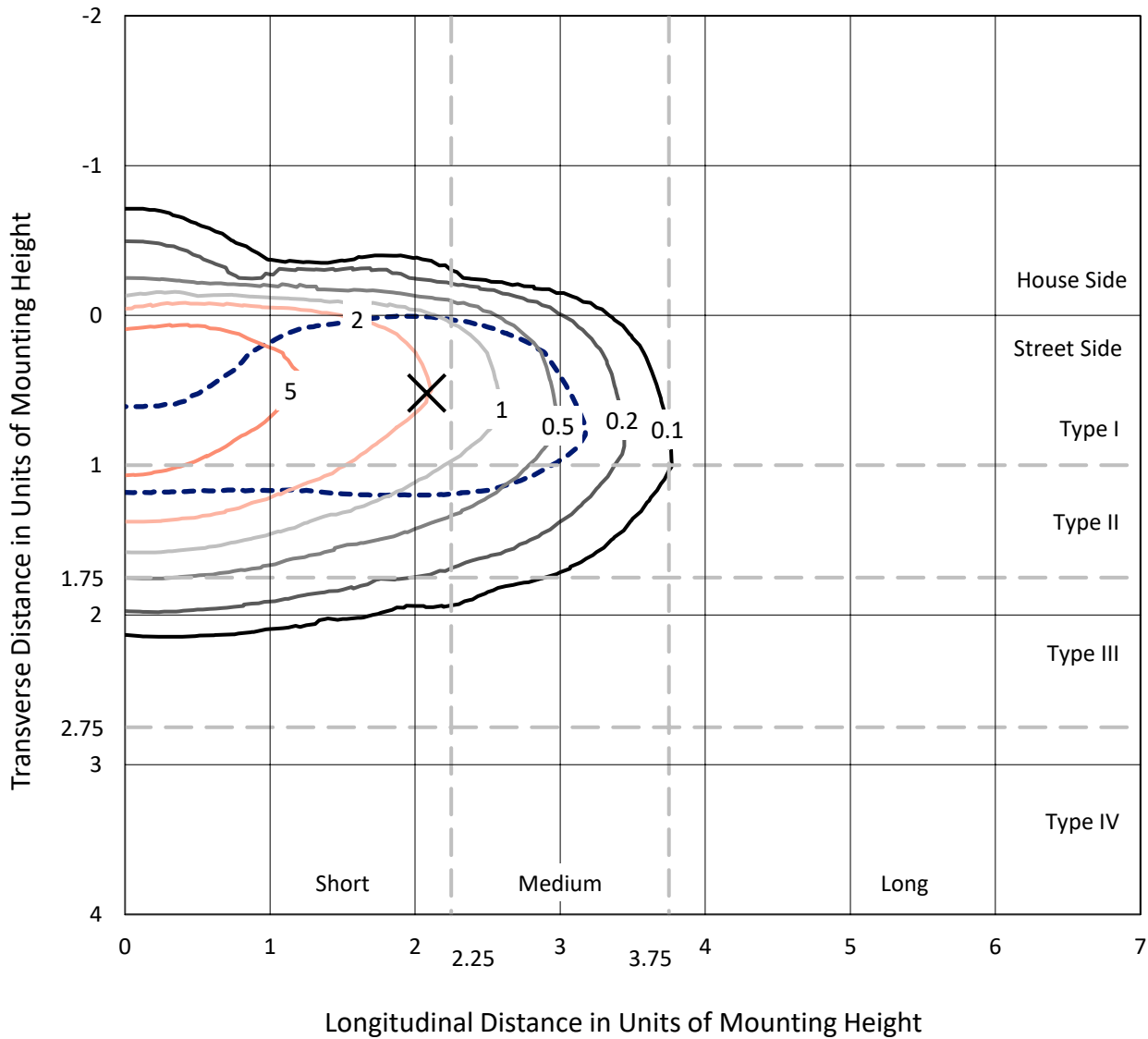
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

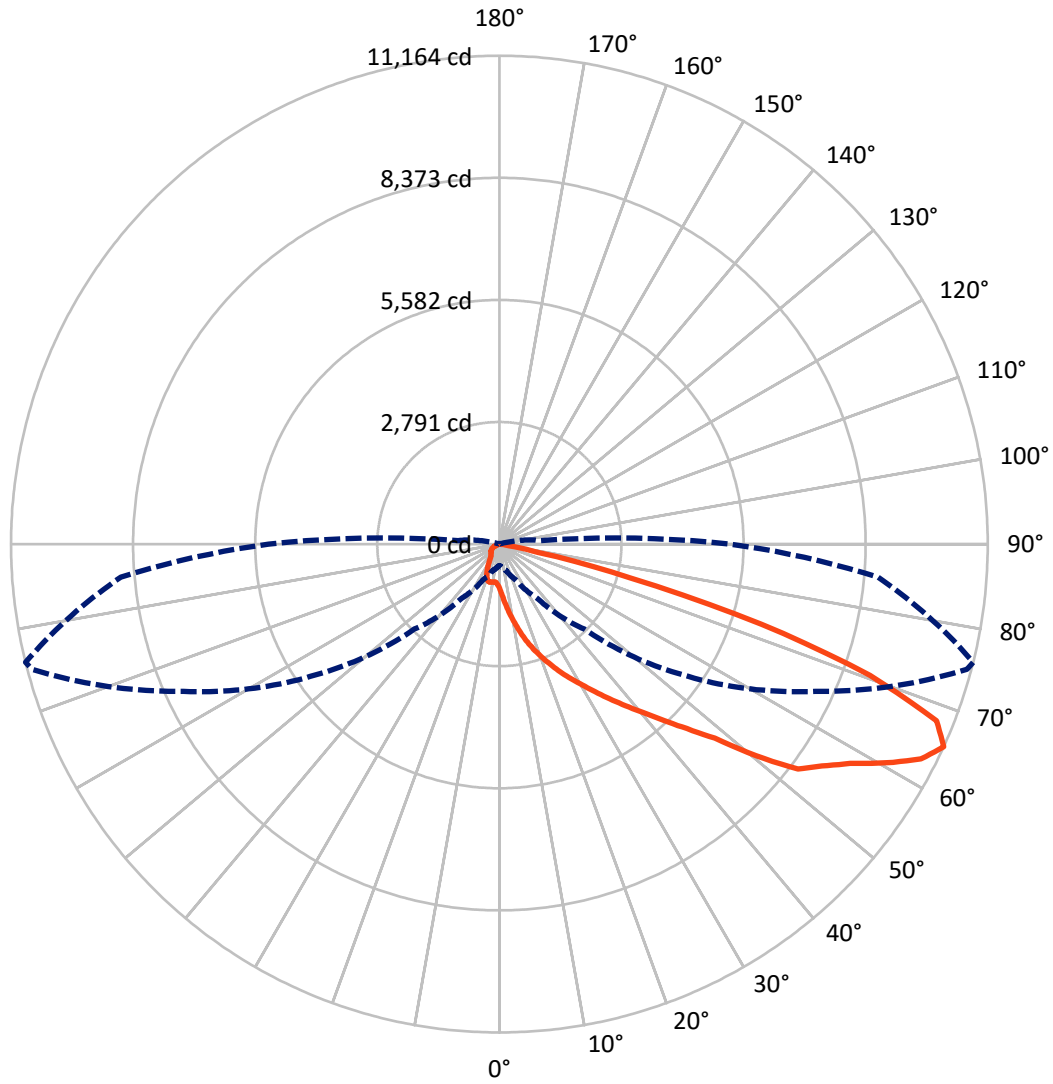
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 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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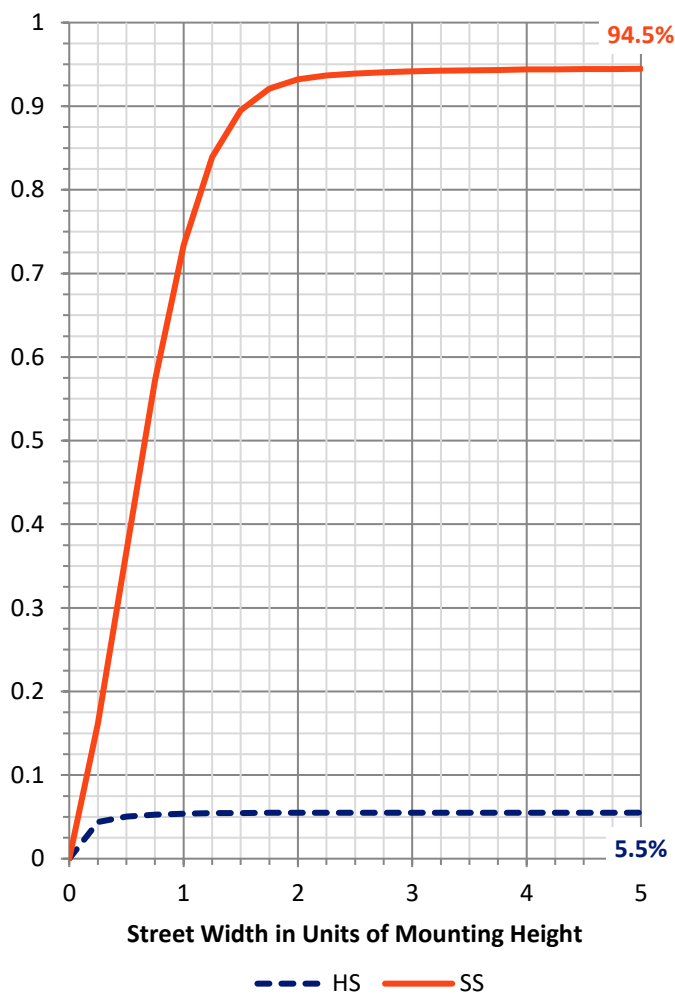
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.6	0.0	636.6
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	10876.7	0.0	10876.7
	% Fixture	94.5	0.0	94.5
Total	Lumens	11513.3	0.0	11513.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.1
10°-20°	470.5	4.1
20°-30°	960.0	8.3
30°-40°	1707.4	14.8
40°-50°	2523.9	21.9
50°-60°	2889.7	25.1
60°-70°	2204.7	19.1
70°-80°	617.6	5.4
80°-90°	15.5	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°	11513.3	100.0
0°-180°	11513.3	100.0

Coefficient of Utilization



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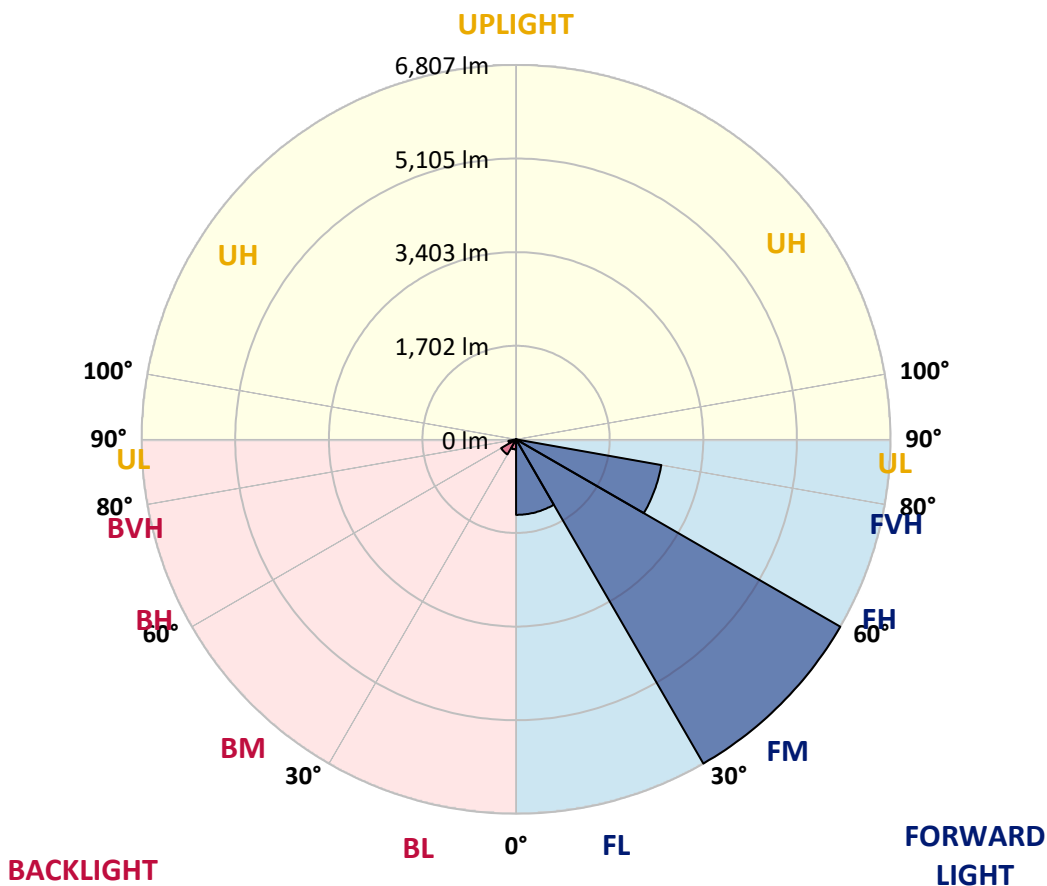
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1372.9	11.9			
FM (30°-60°)	6806.8	59.1			
FH (60°-80°)	2682.3	23.3			G2/5000
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	181.7	1.6	B1/500		
BM (30°-60°)	314.1	2.7	B1/1000		
BH (60°-80°)	139.9	1.2	B1/500		G1/500
BVH (80°-90°)	0.9	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°	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3
2.5°	1571.0	1594.5	1576.1	1545.4	1486.0	1428.7	1355.0	1253.7	1172.9	1162.6	1086.9
5°	2121.6	2119.5	2079.6	2039.7	1977.3	1879.0	1730.6	1542.3	1361.2	1345.8	1175.9
7.5°	2449.1	2452.2	2429.6	2398.9	2337.5	2236.2	2081.7	1854.5	1589.4	1558.7	1297.7
10°	2724.4	2723.4	2707.0	2692.7	2637.4	2569.9	2404.1	2154.3	1835.0	1786.9	1433.8
12.5°	2931.1	2938.3	2946.5	2960.8	2937.3	2870.8	2714.2	2441.9	2083.7	2030.5	1589.4
15°	3094.9	3096.9	3127.6	3182.9	3202.3	3167.5	3025.3	2720.3	2329.4	2283.3	1768.5
17.5°	3144.0	3148.1	3200.3	3301.6	3404.0	3423.4	3315.9	3000.7	2570.9	2521.8	1942.5
20°	3247.4	3256.6	3295.5	3384.5	3513.5	3617.9	3575.9	3284.2	2812.4	2747.9	2120.6
22.5°	3572.8	3577.9	3564.6	3575.9	3642.4	3763.2	3788.8	3558.5	3060.1	2991.5	2313.0
25°	4132.7	4134.7	4041.6	3953.6	3903.4	3925.9	3982.2	3811.3	3305.7	3238.2	2492.1
27.5°	4714.0	4721.1	4609.6	4460.2	4281.1	4178.7	4162.3	4042.6	3553.4	3478.7	2669.1
30°	5261.5	5261.5	5143.8	4961.6	4722.2	4522.6	4404.9	4275.9	3818.5	3736.6	2850.3
32.5°	5753.8	5749.7	5599.2	5401.7	5165.3	4946.3	4698.6	4519.5	4113.2	4022.1	3059.1
35°	6160.1	6149.9	5978.9	5789.6	5536.8	5374.1	5097.8	4781.5	4432.5	4341.4	3274.0
37.5°	6467.1	6455.9	6299.3	6098.7	5864.3	5758.9	5527.6	5095.7	4769.2	4686.3	3512.4
40°	6633.9	6611.4	6502.9	6353.5	6157.0	6064.9	5968.7	5485.6	5165.3	5061.9	3793.9
42.5°	6683.1	6656.5	6584.8	6515.2	6396.5	6323.8	6427.2	5925.7	5600.3	5511.2	4115.3
45°	6537.7	6522.4	6516.2	6566.4	6587.9	6608.4	6863.2	6412.9	6080.3	6012.7	4519.5
47.5°	6187.7	6183.6	6237.9	6446.7	6673.9	6889.8	7337.0	7013.6	6702.5	6629.8	5084.5
50°	5540.9	5582.9	5734.3	6100.7	6555.1	7049.5	7780.2	7846.7	7709.6	7603.1	5821.3
52.5°	4529.7	4610.6	4950.4	5507.1	6160.1	7004.4	7984.9	8514.0	8654.2	8543.7	6349.4
55°	3554.4	3630.1	3933.1	4639.3	5510.2	6661.6	7994.1	8744.3	9050.3	8947.9	6706.6
57.5°	2647.6	2717.2	2992.5	3668.0	4626.0	5987.1	7775.1	8872.2	9520.0	9454.5	7270.5
60°	1730.6	1799.2	2047.9	2638.4	3588.2	5004.6	7235.7	8845.6	10159.7	10153.6	7963.4
62.5°	960.0	1014.2	1194.4	1654.9	2504.4	3875.8	6388.3	8578.5	10778.9	10817.8	8534.5
65°	491.3	526.0	635.6	909.8	1515.7	2747.9	5273.8	7966.5	11065.4	11163.7	8684.9
67.5°	321.4	332.6	359.2	472.8	811.6	1728.6	3968.9	6985.0	10662.2	10776.8	8180.4
70°	261.0	270.2	285.5	315.2	418.6	918.0	2606.7	5578.8	8909.1	8986.8	6514.2
72.5°	191.4	203.7	233.3	252.8	301.9	503.5	1356.1	3661.9	6118.1	6255.3	4093.8
75°	141.2	148.4	173.0	199.6	246.6	318.3	518.9	1925.1	3159.4	3079.5	1719.4
77.5°	84.9	90.1	110.5	127.9	176.0	198.5	181.1	711.3	961.0	903.7	415.5
80°	42.0	47.1	72.7	96.2	112.6	79.8	75.7	198.5	213.9	213.9	104.4
82.5°	14.3	18.4	38.9	63.5	55.3	30.7	35.8	51.2	57.3	60.4	30.7
85°	0.0	0.0	9.2	18.4	8.2	4.1	9.2	11.3	14.3	15.4	10.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	4.1	4.1
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°	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3
2.5°	1046.0	997.9	925.2	859.7	809.5	762.5	726.6	698.0	692.9	676.5	678.5
5°	1093.0	1006.0	872.0	768.6	695.9	646.8	605.9	575.2	561.9	548.6	538.3
7.5°	1165.7	1039.8	851.5	725.6	640.7	564.9	501.5	450.3	425.8	410.4	400.2
10°	1254.7	1086.9	852.5	700.0	574.2	458.5	371.5	315.2	288.6	280.4	279.4
12.5°	1361.2	1146.3	860.7	658.1	477.9	340.8	275.3	249.7	241.5	234.4	234.4
15°	1473.8	1212.8	860.7	581.3	364.3	266.1	238.5	222.1	211.9	207.8	205.7
17.5°	1592.5	1275.2	840.2	475.9	279.4	234.4	211.9	196.5	188.3	182.2	180.1
20°	1719.4	1334.6	789.1	364.3	239.5	209.8	188.3	173.0	164.8	158.6	158.6
22.5°	1848.3	1389.8	706.2	280.4	211.9	186.3	165.8	151.5	143.3	137.1	137.1
25°	1968.1	1426.7	599.7	231.3	191.4	165.8	147.4	133.0	123.8	119.7	117.7
27.5°	2079.6	1450.2	482.0	203.7	171.9	148.4	129.0	115.6	108.5	105.4	103.4
30°	2195.3	1456.4	368.4	185.2	155.6	131.0	112.6	102.3	96.2	92.1	92.1
32.5°	2307.9	1449.2	281.4	169.9	141.2	115.6	100.3	91.1	86.0	82.9	81.9
35°	2422.5	1416.4	228.2	156.6	126.9	101.3	89.0	81.9	78.8	74.7	74.7
37.5°	2547.3	1372.4	198.5	143.3	112.6	91.1	79.8	74.7	70.6	67.5	66.5
40°	2702.9	1321.3	182.2	132.0	99.3	81.9	71.6	66.5	63.5	60.4	59.4
42.5°	2887.1	1271.1	174.0	119.7	89.0	72.7	64.5	58.3	55.3	51.2	50.1
45°	3148.1	1259.9	164.8	106.4	79.8	65.5	56.3	50.1	46.1	43.0	42.0
47.5°	3567.7	1291.6	149.4	92.1	70.6	57.3	48.1	43.0	37.9	34.8	32.8
50°	3984.3	1283.4	134.1	79.8	62.4	49.1	40.9	35.8	30.7	27.6	26.6
52.5°	4211.5	1244.5	119.7	70.6	54.2	42.0	34.8	28.7	25.6	22.5	21.5
55°	4417.2	1229.2	105.4	61.4	46.1	36.8	28.7	23.5	21.5	18.4	17.4
57.5°	4820.4	1265.0	93.1	53.2	39.9	31.7	24.6	19.4	17.4	14.3	13.3
60°	5242.1	1269.1	79.8	46.1	34.8	26.6	19.4	15.4	13.3	10.2	9.2
62.5°	5462.1	1165.7	65.5	38.9	28.7	22.5	16.4	12.3	10.2	6.1	6.1
65°	5277.9	942.6	55.3	31.7	22.5	17.4	12.3	9.2	6.1	3.1	1.0
67.5°	4671.0	670.4	46.1	25.6	16.4	12.3	9.2	6.1	1.0	0.0	0.0
70°	3420.3	382.8	35.8	18.4	12.3	8.2	6.1	3.1	0.0	0.0	0.0
72.5°	2102.1	204.7	26.6	12.3	9.2	6.1	5.1	2.0	0.0	0.0	0.0
75°	797.3	98.3	16.4	8.2	7.2	5.1	3.1	1.0	0.0	0.0	0.0
77.5°	215.9	48.1	9.2	6.1	5.1	3.1	2.0	0.0	0.0	0.0	0.0
80°	56.3	22.5	6.1	4.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.4	10.2	3.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	4.1	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.0	1.0	1.0	1.0	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)