

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: P638769

Luminaire Tested: GWS-SA4F-740-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638769
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-SA4F-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27440.1 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

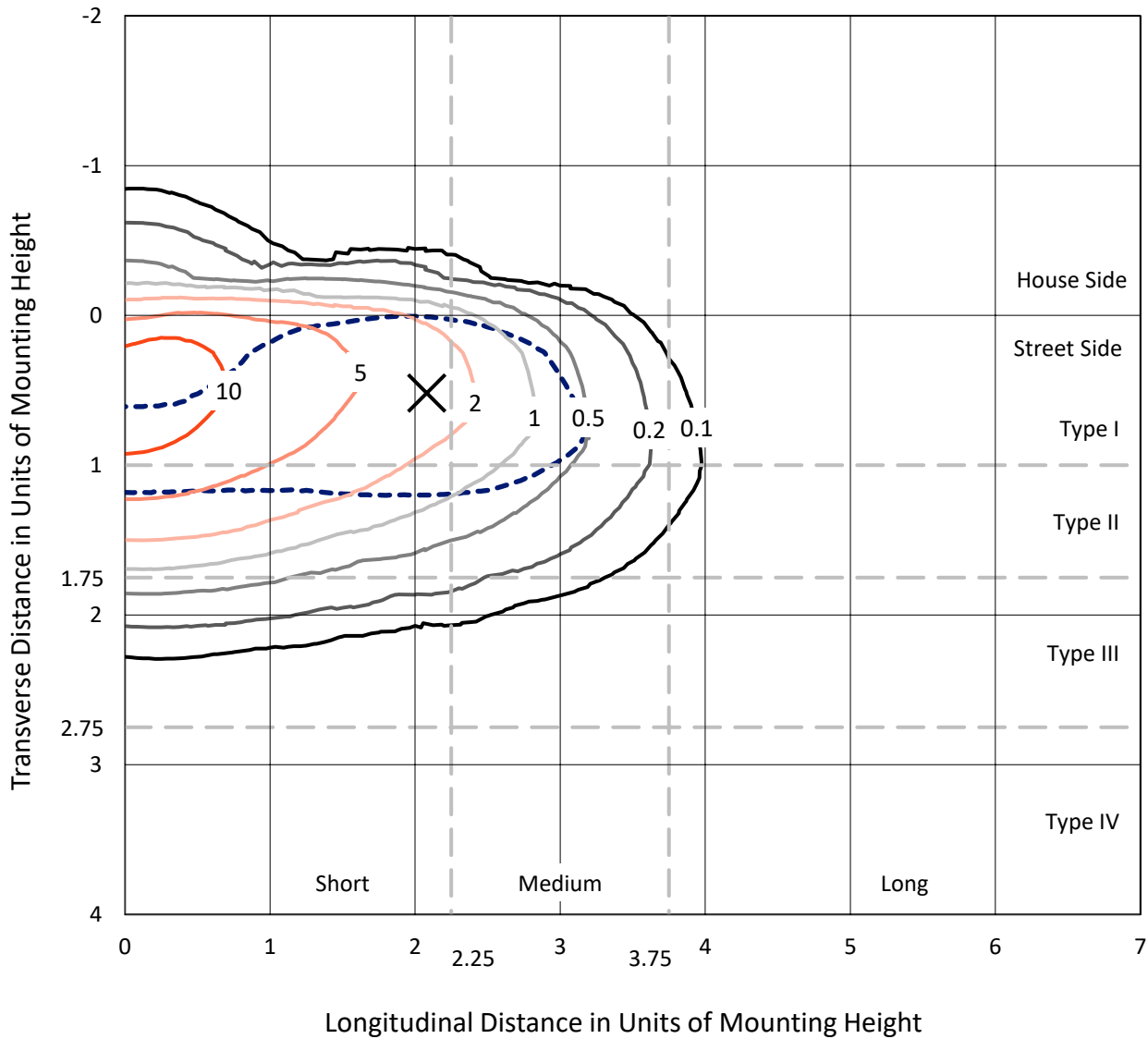
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

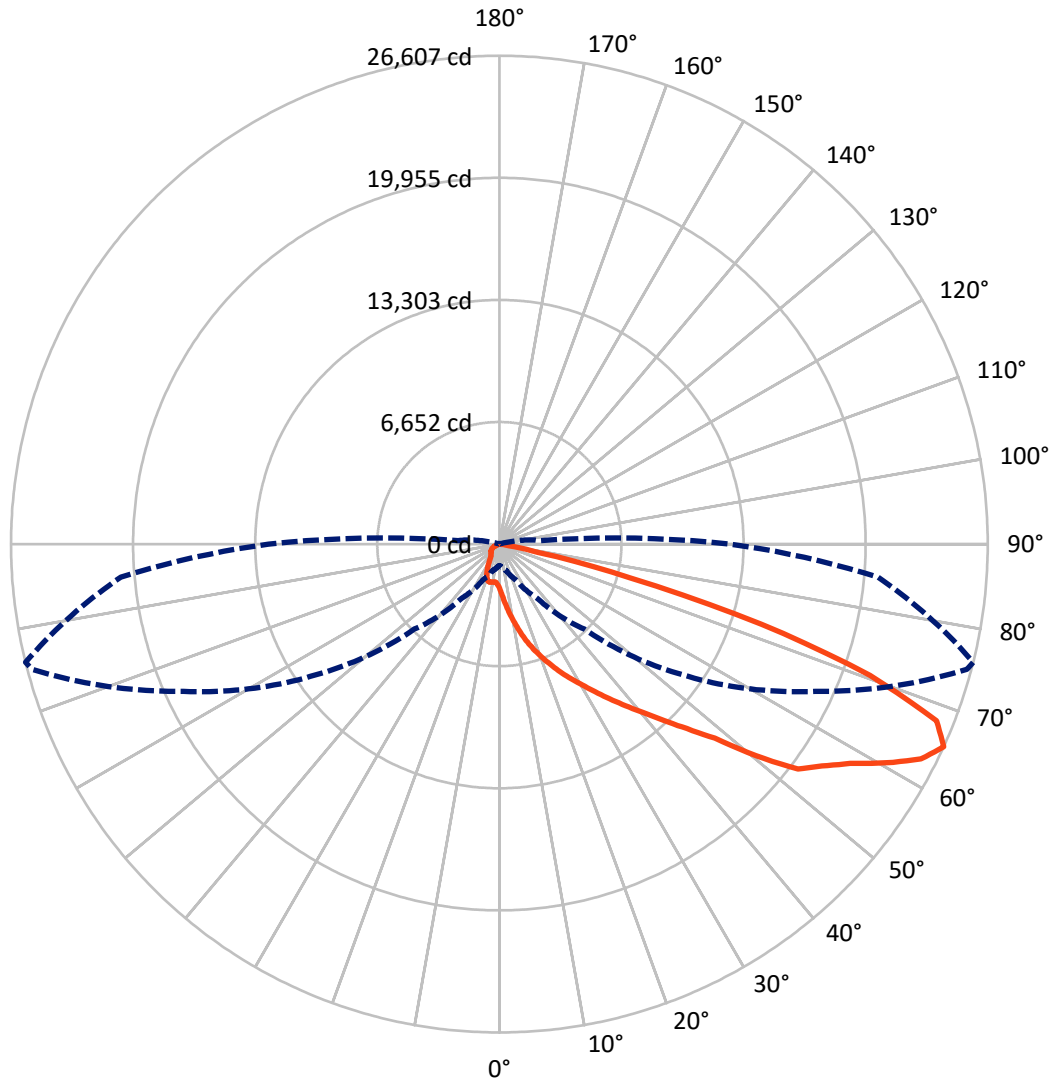
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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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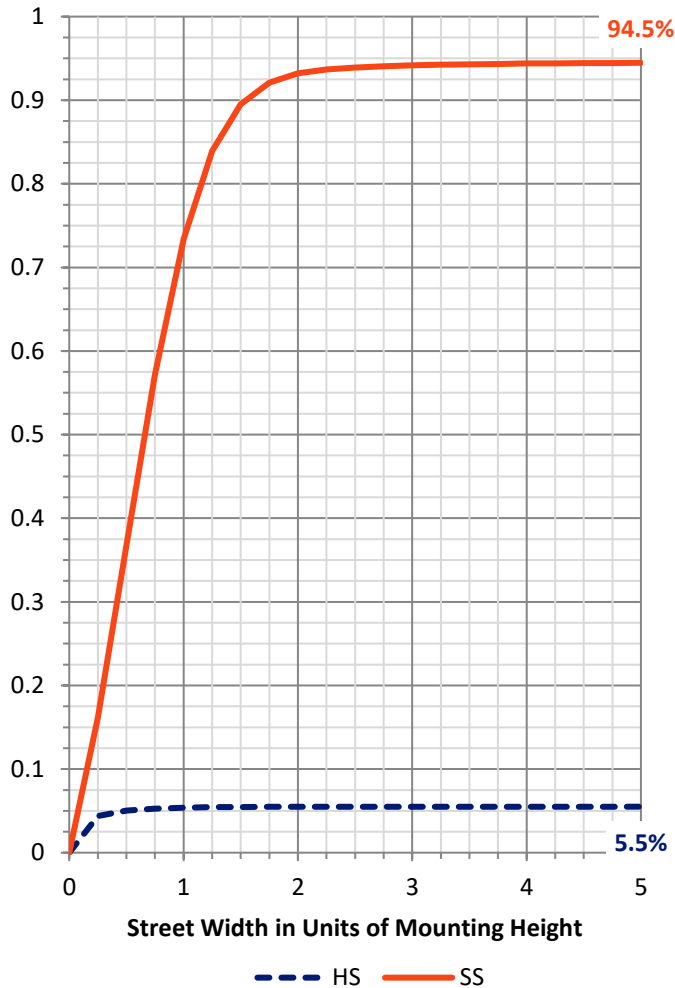
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1517.3	0.0	1517.3
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	25922.8	0.0	25922.8
	% Fixture	94.5	0.0	94.5
Total	Lumens	27440.1	0.0	27440.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	1.1
10°-20°	1121.5	4.1
20°-30°	2288.0	8.3
30°-40°	4069.2	14.8
40°-50°	6015.3	21.9
50°-60°	6887.1	25.1
60°-70°	5254.5	19.1
70°-80°	1471.9	5.4
80°-90°	37.0	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°	27440.1	100.0
0°-180°	27440.1	100.0

Coefficient of Utilization

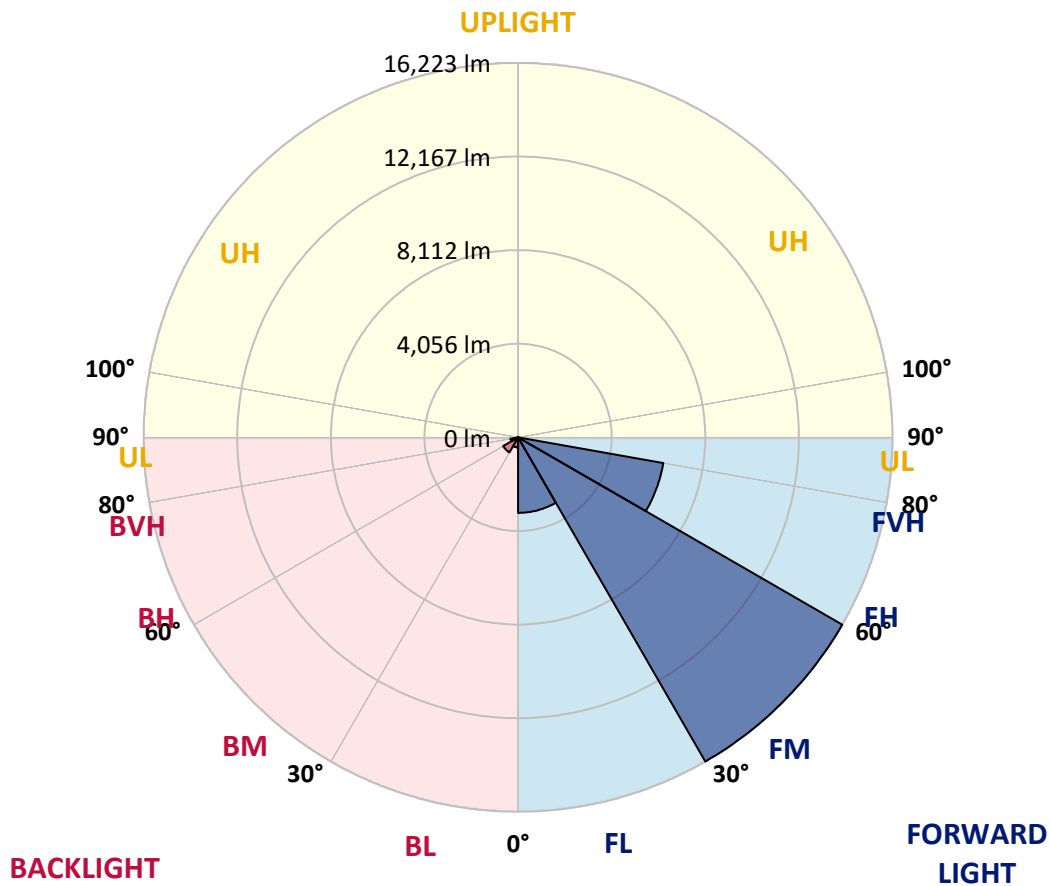


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3272.0	11.9			
FM (30°-60°)	16223.0	59.1			
FH (60°-80°)	6392.9	23.3			G3/7500
FVH (80°-90°)	34.9	0.1			G1/100
BL (0°-30°)	433.0	1.6	B1/500		
BM (30°-60°)	748.6	2.7	B1/1000		
BH (60°-80°)	333.5	1.2	B1/500		G1/500
BVH (80°-90°)	2.1	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4
2.5°	3744.2	3800.3	3756.4	3683.2	3541.7	3405.1	3229.5	2988.0	2795.3	2770.9	2590.4
5°	5056.5	5051.6	4956.5	4861.3	4712.5	4478.4	4124.7	3675.9	3244.1	3207.6	2802.6
7.5°	5837.0	5844.3	5790.7	5717.5	5571.1	5329.7	4961.3	4419.8	3788.1	3714.9	3092.9
10°	6493.2	6490.7	6451.7	6417.6	6285.8	6124.8	5729.7	5134.5	4373.5	4258.9	3417.3
12.5°	6985.9	7003.0	7022.5	7056.6	7000.5	6842.0	6468.8	5819.9	4966.2	4839.4	3788.1
15°	7376.2	7381.0	7454.2	7585.9	7632.3	7549.3	7210.3	6483.4	5551.6	5441.9	4214.9
17.5°	7493.2	7503.0	7627.4	7868.9	8112.8	8159.1	7903.0	7151.8	6127.3	6010.2	4629.6
20°	7739.6	7761.6	7854.2	8066.5	8373.8	8622.6	8522.6	7827.4	6702.9	6549.3	5054.0
22.5°	8515.3	8527.5	8495.8	8522.6	8681.1	8969.0	9029.9	8481.1	7293.2	7129.8	5512.6
25°	9849.5	9854.4	9632.4	9422.7	9303.1	9356.8	9491.0	9083.6	7878.6	7717.6	5939.5
27.5°	11235.0	11252.1	10986.2	10630.1	10203.2	9959.3	9920.3	9634.9	8468.9	8290.9	6361.5
30°	12540.0	12540.0	12259.5	11825.3	11254.5	10778.9	10498.3	10191.0	9100.7	8905.5	6793.2
32.5°	13713.2	13703.5	13344.9	12874.1	12310.7	11788.7	11198.4	10771.5	9803.2	9586.1	7290.8
35°	14681.6	14657.2	14249.8	13798.6	13196.1	12808.3	12149.7	11396.0	10564.2	10347.1	7803.0
37.5°	15413.3	15386.5	15013.3	14535.2	13976.7	13725.4	13174.2	12144.8	11366.7	11169.1	8371.4
40°	15810.9	15757.3	15498.7	15142.6	14674.3	14454.7	14225.5	13074.1	12310.7	12064.3	9042.1
42.5°	15928.0	15864.6	15693.9	15528.0	15245.0	15071.9	15318.2	14123.0	13347.3	13135.1	9808.0
45°	15581.7	15545.1	15530.4	15649.9	15701.2	15750.0	16357.3	15284.1	14491.3	14330.3	10771.5
47.5°	14747.4	14737.7	14867.0	15364.6	15906.1	16420.7	17486.7	16715.9	15974.4	15801.2	12118.0
50°	13205.9	13305.9	13666.9	14540.1	15623.1	16801.3	18542.8	18701.4	18374.5	18120.9	13874.2
52.5°	10795.9	10988.6	11798.4	13125.4	14681.6	16693.9	19030.7	20291.8	20625.9	20362.5	15132.8
55°	8471.4	8651.9	9373.9	11056.9	13132.7	15876.8	19052.6	20840.6	21569.9	21326.0	15984.1
57.5°	6310.2	6476.1	7132.2	8742.1	11025.2	14269.4	18530.7	21145.5	22689.5	22533.4	17328.1
60°	4124.7	4288.1	4880.9	6288.3	8551.9	11927.7	17245.2	21082.1	24214.0	24199.4	18979.5
62.5°	2288.0	2417.3	2846.6	3944.2	5968.7	9237.3	15225.5	20445.4	25689.7	25782.4	20340.5
65°	1170.8	1253.8	1514.7	2168.5	3612.5	6549.3	12569.2	18986.8	26372.7	26606.9	20699.1
67.5°	765.9	792.7	856.2	1126.9	1934.3	4119.8	9459.2	16647.6	25411.7	25684.8	19496.6
70°	622.0	644.0	680.5	751.3	997.6	2188.0	6212.7	13296.1	21233.3	21418.7	15525.5
72.5°	456.1	485.4	556.1	602.5	719.6	1200.1	3231.9	8727.5	14581.6	14908.4	9756.8
75°	336.6	353.7	412.2	475.6	587.8	758.6	1236.7	4588.1	7529.8	7339.6	4097.9
77.5°	202.5	214.7	263.4	304.9	419.5	473.2	431.7	1695.2	2290.4	2153.8	990.3
80°	100.0	112.2	173.2	229.3	268.3	190.3	180.5	473.2	509.8	509.8	248.8
82.5°	34.1	43.9	92.7	151.2	131.7	73.2	85.4	122.0	136.6	143.9	73.2
85°	0.0	0.0	22.0	43.9	19.5	9.8	22.0	26.8	34.1	36.6	24.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.3	9.8	9.8
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°	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4
2.5°	2492.9	2378.2	2205.0	2048.9	1929.4	1817.2	1731.8	1663.5	1651.3	1612.3	1617.2
5°	2605.1	2397.7	2078.2	1831.8	1658.7	1541.6	1444.0	1370.8	1339.1	1307.4	1283.0
7.5°	2778.3	2478.2	2029.4	1729.4	1526.9	1346.4	1195.2	1073.3	1014.7	978.1	953.7
10°	2990.5	2590.4	2031.9	1668.4	1368.4	1092.8	885.4	751.3	687.9	668.3	665.9
12.5°	3244.1	2731.9	2051.4	1568.4	1139.1	812.3	656.1	595.2	575.7	558.6	558.6
15°	3512.5	2890.5	2051.4	1385.5	868.4	634.2	568.3	529.3	504.9	495.2	490.3
17.5°	3795.4	3039.3	2002.6	1134.2	665.9	558.6	504.9	468.3	448.8	434.2	429.3
20°	4097.9	3180.7	1880.6	868.4	570.8	500.0	448.8	412.2	392.7	378.1	378.1
22.5°	4405.2	3312.4	1683.1	668.3	504.9	443.9	395.2	361.0	341.5	326.9	326.9
25°	4690.6	3400.3	1429.4	551.3	456.1	395.2	351.2	317.1	295.1	285.4	280.5
27.5°	4956.5	3456.4	1148.9	485.4	409.8	353.7	307.3	275.6	258.6	251.2	246.4
30°	5232.1	3471.0	878.1	441.5	370.8	312.2	268.3	243.9	229.3	219.5	219.5
32.5°	5500.4	3453.9	670.8	404.9	336.6	275.6	239.0	217.1	204.9	197.6	195.1
35°	5773.6	3375.9	543.9	373.2	302.5	241.5	212.2	195.1	187.8	178.1	178.1
37.5°	6071.2	3271.0	473.2	341.5	268.3	217.1	190.3	178.1	168.3	161.0	158.5
40°	6441.9	3149.0	434.2	314.7	236.6	195.1	170.7	158.5	151.2	143.9	141.5
42.5°	6881.0	3029.5	414.7	285.4	212.2	173.2	153.7	139.0	131.7	122.0	119.5
45°	7503.0	3002.7	392.7	253.7	190.3	156.1	134.2	119.5	109.8	102.4	100.0
47.5°	8503.1	3078.3	356.1	219.5	168.3	136.6	114.6	102.4	90.3	82.9	78.1
50°	9495.8	3058.8	319.5	190.3	148.8	117.1	97.6	85.4	73.2	65.9	63.4
52.5°	10037.3	2966.1	285.4	168.3	129.3	100.0	82.9	68.3	61.0	53.7	51.2
55°	10527.6	2929.5	251.2	146.4	109.8	87.8	68.3	56.1	51.2	43.9	41.5
57.5°	11488.7	3014.9	222.0	126.8	95.1	75.6	58.5	46.3	41.5	34.1	31.7
60°	12493.6	3024.6	190.3	109.8	82.9	63.4	46.3	36.6	31.7	24.4	22.0
62.5°	13018.0	2778.3	156.1	92.7	68.3	53.7	39.0	29.3	24.4	14.6	14.6
65°	12579.0	2246.5	131.7	75.6	53.7	41.5	29.3	22.0	14.6	7.3	2.4
67.5°	11132.5	1597.7	109.8	61.0	39.0	29.3	22.0	14.6	2.4	0.0	0.0
70°	8151.8	912.3	85.4	43.9	29.3	19.5	14.6	7.3	0.0	0.0	0.0
72.5°	5010.1	487.8	63.4	29.3	22.0	14.6	12.2	4.9	0.0	0.0	0.0
75°	1900.1	234.2	39.0	19.5	17.1	12.2	7.3	2.4	0.0	0.0	0.0
77.5°	514.7	114.6	22.0	14.6	12.2	7.3	4.9	0.0	0.0	0.0	0.0
80°	134.2	53.7	14.6	9.8	7.3	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	46.3	24.4	7.3	7.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0
85°	19.5	9.8	4.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	2.4	2.4	2.4	2.4	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)