

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: P637394

Luminaire Tested: GWS-SA4C-760-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637394  
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-SA4C-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

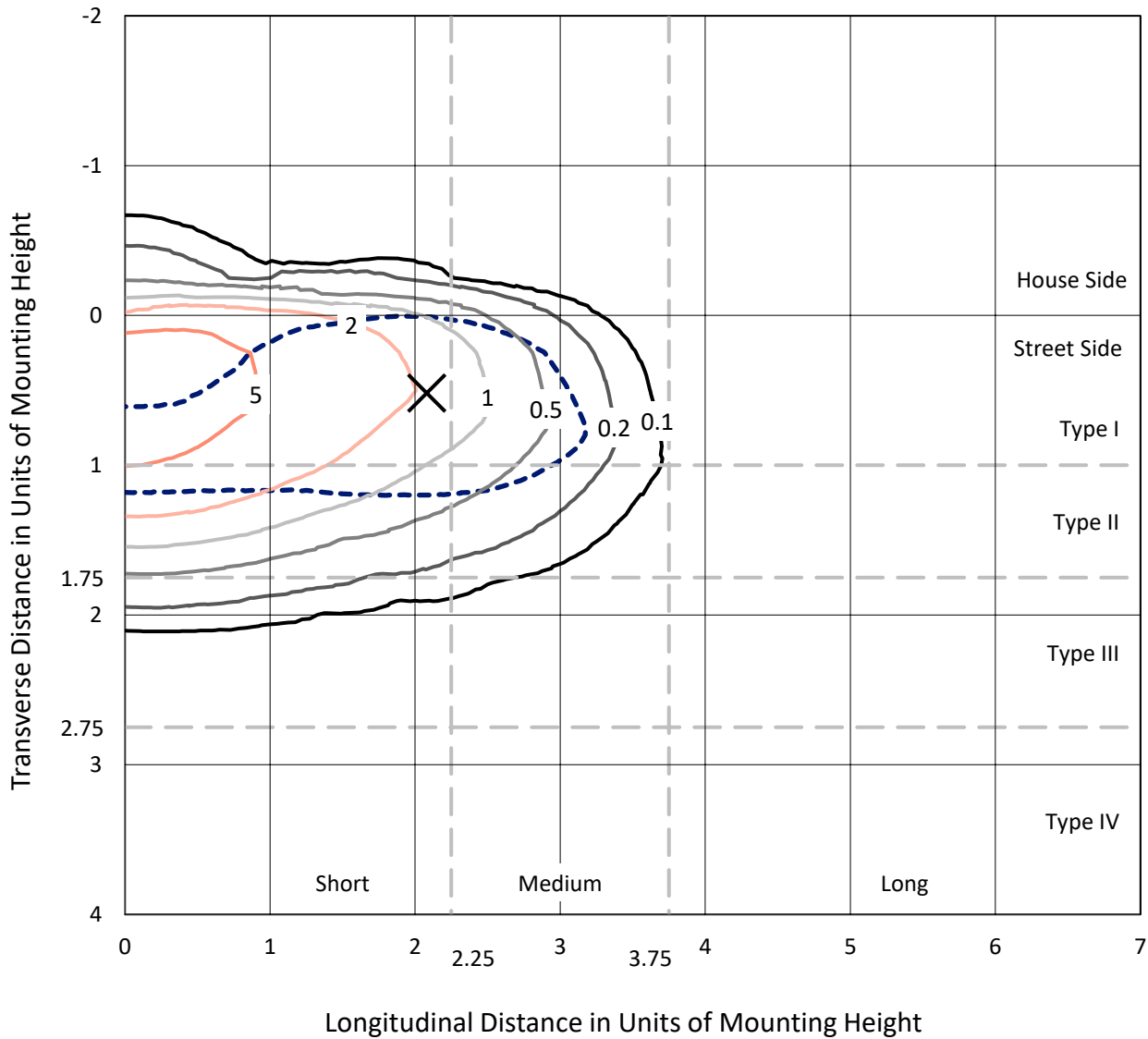
Lumens per Lamp: N/A  
Luminaire Lumens: 15794.4 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

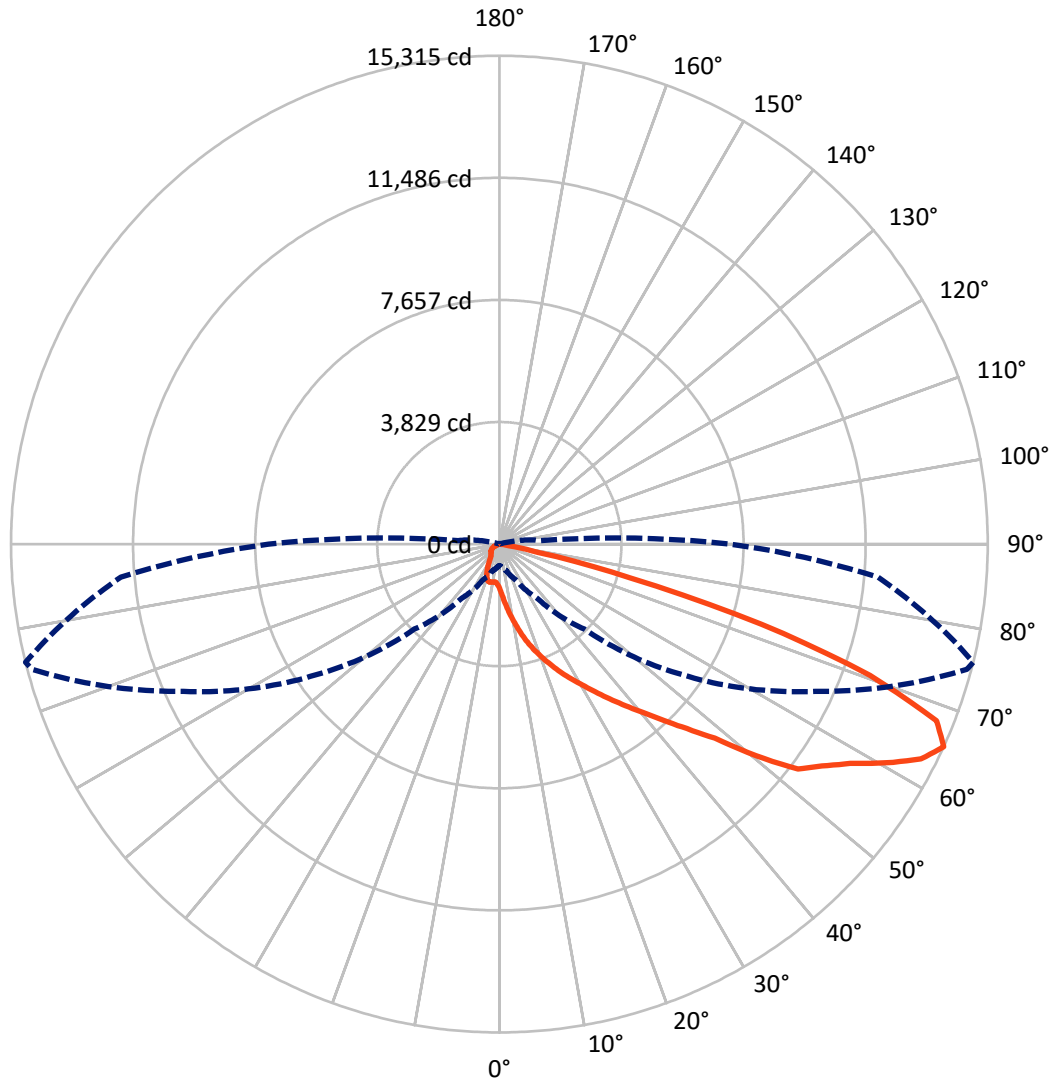
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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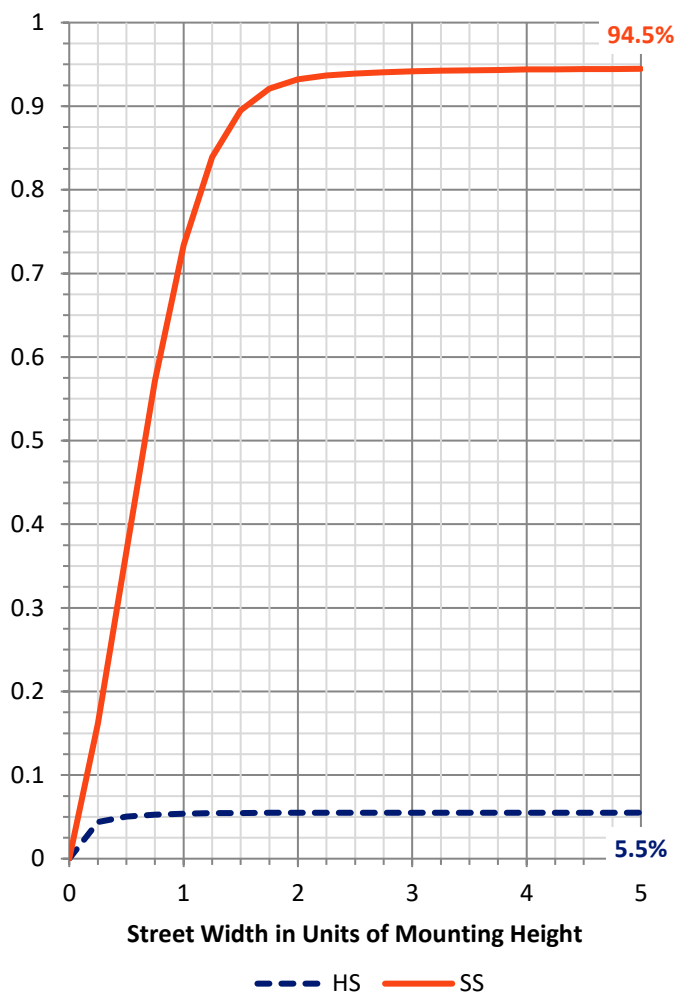
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	873.3	0.0	873.3
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	14921.1	0.0	14921.1
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	15794.4	0.0	15794.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.1	1.1
10°-20°	645.5	4.1
20°-30°	1316.9	8.3
30°-40°	2342.2	14.8
40°-50°	3462.4	21.9
50°-60°	3964.2	25.1
60°-70°	3024.5	19.1
70°-80°	847.2	5.4
80°-90°	21.3	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°	15794.4	100.0
0°-180°	15794.4	100.0

**Coefficient of Utilization**



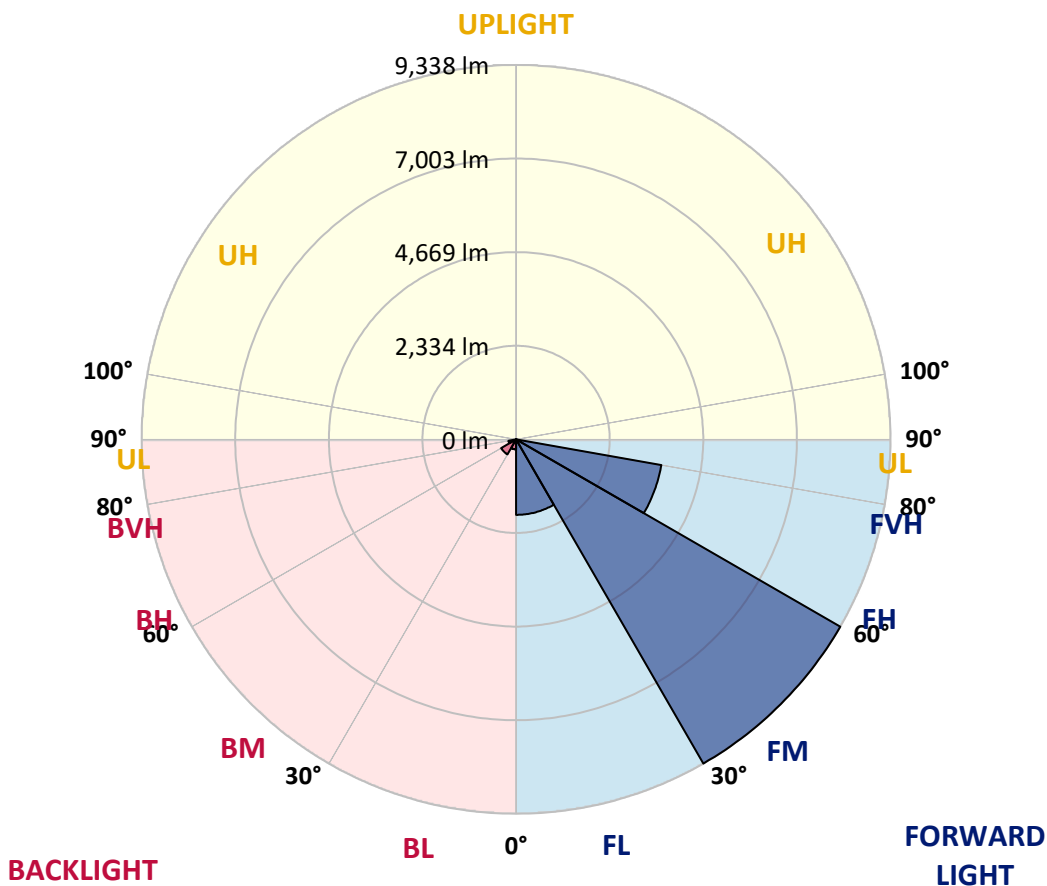
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1883.4	11.9			
FM (30°-60°)	9337.9	59.1			
FH (60°-80°)	3679.7	23.3			G2/5000
FVH (80°-90°)	20.1	0.1			G1/100
BL (0°-30°)	249.2	1.6	B1/500		
BM (30°-60°)	430.9	2.7	B1/1000		
BH (60°-80°)	192.0	1.2	B1/500		G1/500
BVH (80°-90°)	1.2	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°	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4
2.5°	2155.1	2187.4	2162.2	2120.0	2038.6	1960.0	1858.9	1719.9	1609.0	1594.9	1491.0
5°	2910.5	2907.7	2852.9	2798.2	2712.5	2577.7	2374.2	2115.8	1867.3	1846.3	1613.2
7.5°	3359.8	3364.0	3333.1	3291.0	3206.7	3067.7	2855.7	2544.0	2180.4	2138.3	1780.3
10°	3737.4	3736.0	3713.6	3693.9	3618.1	3525.4	3298.0	2955.4	2517.4	2451.4	1967.0
12.5°	4021.0	4030.9	4042.1	4061.8	4029.5	3938.2	3723.4	3349.9	2858.5	2785.5	2180.4
15°	4245.7	4248.5	4290.6	4366.4	4393.1	4345.4	4150.2	3731.8	3195.5	3132.3	2426.1
17.5°	4313.1	4318.7	4390.3	4529.3	4669.7	4696.4	4548.9	4116.5	3526.8	3459.4	2664.8
20°	4454.9	4467.5	4520.9	4643.0	4819.9	4963.1	4905.6	4505.4	3858.2	3769.7	2909.1
22.5°	4901.4	4908.4	4890.1	4905.6	4996.8	5162.5	5197.6	4881.7	4197.9	4103.9	3173.0
25°	5669.3	5672.1	5544.4	5423.6	5354.8	5385.7	5463.0	5228.5	4534.9	4442.2	3418.7
27.5°	6466.8	6476.6	6323.6	6118.6	5872.9	5732.5	5710.1	5545.8	4874.7	4772.2	3661.6
30°	7217.9	7217.9	7056.5	6806.6	6478.0	6204.3	6042.8	5865.9	5238.3	5126.0	3910.1
32.5°	7893.3	7887.7	7681.3	7410.3	7086.0	6785.5	6445.7	6200.0	5642.7	5517.7	4196.5
35°	8450.7	8436.6	8202.1	7942.4	7595.6	7372.4	6993.3	6559.5	6080.7	5955.8	4491.4
37.5°	8871.9	8856.4	8641.6	8366.4	8044.9	7900.3	7583.0	6990.5	6542.6	6428.9	4818.5
40°	9100.7	9069.8	8921.0	8716.0	8446.4	8320.1	8188.1	7525.4	7086.0	6944.2	5204.6
42.5°	9168.1	9131.6	9033.3	8937.8	8775.0	8675.3	8817.1	8129.1	7682.7	7560.5	5645.5
45°	8968.7	8947.7	8939.2	9008.0	9037.5	9065.6	9415.2	8797.4	8341.1	8248.5	6200.0
47.5°	8488.6	8482.9	8557.4	8843.8	9155.5	9451.7	10065.3	9621.6	9194.8	9095.1	6975.1
50°	7601.2	7658.8	7866.6	8369.2	8992.6	9670.7	10673.2	10764.4	10576.3	10430.3	7985.9
52.5°	6214.1	6325.0	6791.1	7554.9	8450.7	9609.0	10954.0	11679.8	11872.2	11720.6	8710.4
55°	4876.1	4980.0	5395.6	6364.3	7559.1	9138.6	10966.6	11995.7	12415.5	12275.1	9200.4
57.5°	3632.1	3727.6	4105.3	5031.9	6346.1	8213.4	10666.2	12171.2	13060.0	12970.1	9974.0
60°	2374.2	2468.2	2809.4	3619.5	4922.4	6865.5	9926.3	12134.7	13937.5	13929.0	10924.5
62.5°	1316.9	1391.4	1638.5	2270.3	3435.6	5316.9	8763.7	11768.3	14786.9	14840.2	11707.9
65°	673.9	721.7	871.9	1248.2	2079.3	3769.7	7234.8	10928.7	15180.0	15314.8	11914.3
67.5°	440.9	456.3	492.8	648.6	1113.4	2371.4	5444.7	9582.3	14626.8	14784.1	11222.1
70°	358.0	370.7	391.7	432.4	574.2	1259.4	3576.0	7653.2	12221.8	12328.5	8936.4
72.5°	262.5	279.4	320.1	346.8	414.2	690.8	1860.3	5023.5	8393.1	8581.2	5616.0
75°	193.8	203.6	237.3	273.8	338.4	436.6	711.8	2640.9	4334.1	4224.6	2358.7
77.5°	116.5	123.6	151.6	175.5	241.5	272.4	248.5	975.8	1318.4	1239.7	570.0
80°	57.6	64.6	99.7	132.0	154.4	109.5	103.9	272.4	293.4	293.4	143.2
82.5°	19.7	25.3	53.4	87.0	75.8	42.1	49.1	70.2	78.6	82.8	42.1
85°	0.0	0.0	12.6	25.3	11.2	5.6	12.6	15.4	19.7	21.1	14.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	5.6	5.6
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°	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4
2.5°	1434.9	1368.9	1269.2	1179.4	1110.6	1046.0	996.8	957.5	950.5	928.0	930.8
5°	1499.5	1380.1	1196.2	1054.4	954.7	887.3	831.2	789.0	770.8	752.5	738.5
7.5°	1599.2	1426.5	1168.1	995.4	878.9	775.0	688.0	617.8	584.1	563.0	549.0
10°	1721.3	1491.0	1169.5	960.3	787.6	629.0	509.7	432.4	395.9	384.7	383.3
12.5°	1867.3	1572.5	1180.8	902.8	655.7	467.5	377.7	342.6	331.3	321.5	321.5
15°	2021.8	1663.7	1180.8	797.5	499.8	365.0	327.1	304.7	290.6	285.0	282.2
17.5°	2184.6	1749.4	1152.7	652.9	383.3	321.5	290.6	269.6	258.3	249.9	247.1
20°	2358.7	1830.8	1082.5	499.8	328.5	287.8	258.3	237.3	226.0	217.6	217.6
22.5°	2535.6	1906.6	968.8	384.7	290.6	255.5	227.4	207.8	196.6	188.1	188.1
25°	2699.9	1957.2	822.7	317.3	262.5	227.4	202.2	182.5	169.9	164.3	161.5
27.5°	2852.9	1989.5	661.3	279.4	235.9	203.6	176.9	158.7	148.8	144.6	141.8
30°	3011.6	1997.9	505.4	254.1	213.4	179.7	154.4	140.4	132.0	126.4	126.4
32.5°	3166.0	1988.1	386.1	233.1	193.8	158.7	137.6	125.0	117.9	113.7	112.3
35°	3323.3	1943.1	313.1	214.8	174.1	139.0	122.1	112.3	108.1	102.5	102.5
37.5°	3494.5	1882.8	272.4	196.6	154.4	125.0	109.5	102.5	96.9	92.7	91.3
40°	3708.0	1812.6	249.9	181.1	136.2	112.3	98.3	91.3	87.0	82.8	81.4
42.5°	3960.7	1743.8	238.7	164.3	122.1	99.7	88.5	80.0	75.8	70.2	68.8
45°	4318.7	1728.3	226.0	146.0	109.5	89.9	77.2	68.8	63.2	59.0	57.6
47.5°	4894.3	1771.8	205.0	126.4	96.9	78.6	66.0	59.0	51.9	47.7	44.9
50°	5465.8	1760.6	183.9	109.5	85.6	67.4	56.2	49.1	42.1	37.9	36.5
52.5°	5777.4	1707.3	164.3	96.9	74.4	57.6	47.7	39.3	35.1	30.9	29.5
55°	6059.6	1686.2	144.6	84.2	63.2	50.5	39.3	32.3	29.5	25.3	23.9
57.5°	6612.8	1735.3	127.8	73.0	54.8	43.5	33.7	26.7	23.9	19.7	18.3
60°	7191.3	1741.0	109.5	63.2	47.7	36.5	26.7	21.1	18.3	14.0	12.6
62.5°	7493.1	1599.2	89.9	53.4	39.3	30.9	22.5	16.8	14.0	8.4	8.4
65°	7240.4	1293.1	75.8	43.5	30.9	23.9	16.8	12.6	8.4	4.2	1.4
67.5°	6407.8	919.6	63.2	35.1	22.5	16.8	12.6	8.4	1.4	0.0	0.0
70°	4692.2	525.1	49.1	25.3	16.8	11.2	8.4	4.2	0.0	0.0	0.0
72.5°	2883.8	280.8	36.5	16.8	12.6	8.4	7.0	2.8	0.0	0.0	0.0
75°	1093.7	134.8	22.5	11.2	9.8	7.0	4.2	1.4	0.0	0.0	0.0
77.5°	296.2	66.0	12.6	8.4	7.0	4.2	2.8	0.0	0.0	0.0	0.0
80°	77.2	30.9	8.4	5.6	4.2	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	26.7	14.0	4.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0
85°	11.2	5.6	2.8	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	1.4	1.4	1.4	1.4	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)