

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: P637229

Luminaire Tested: GWS-SA4C-735-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637229  
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-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**

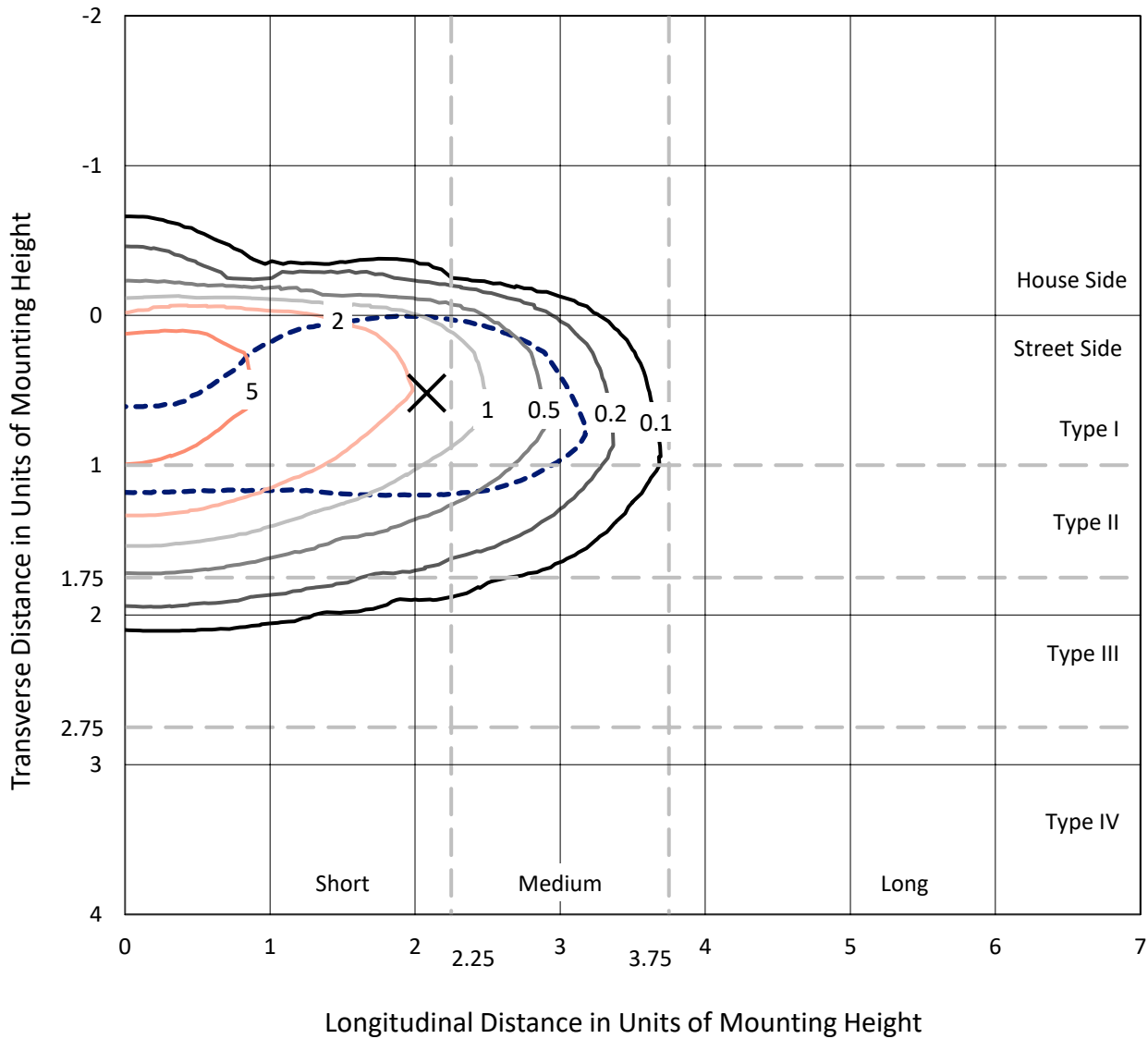
Lumens per Lamp: N/A  
Luminaire Lumens: 15440.5 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

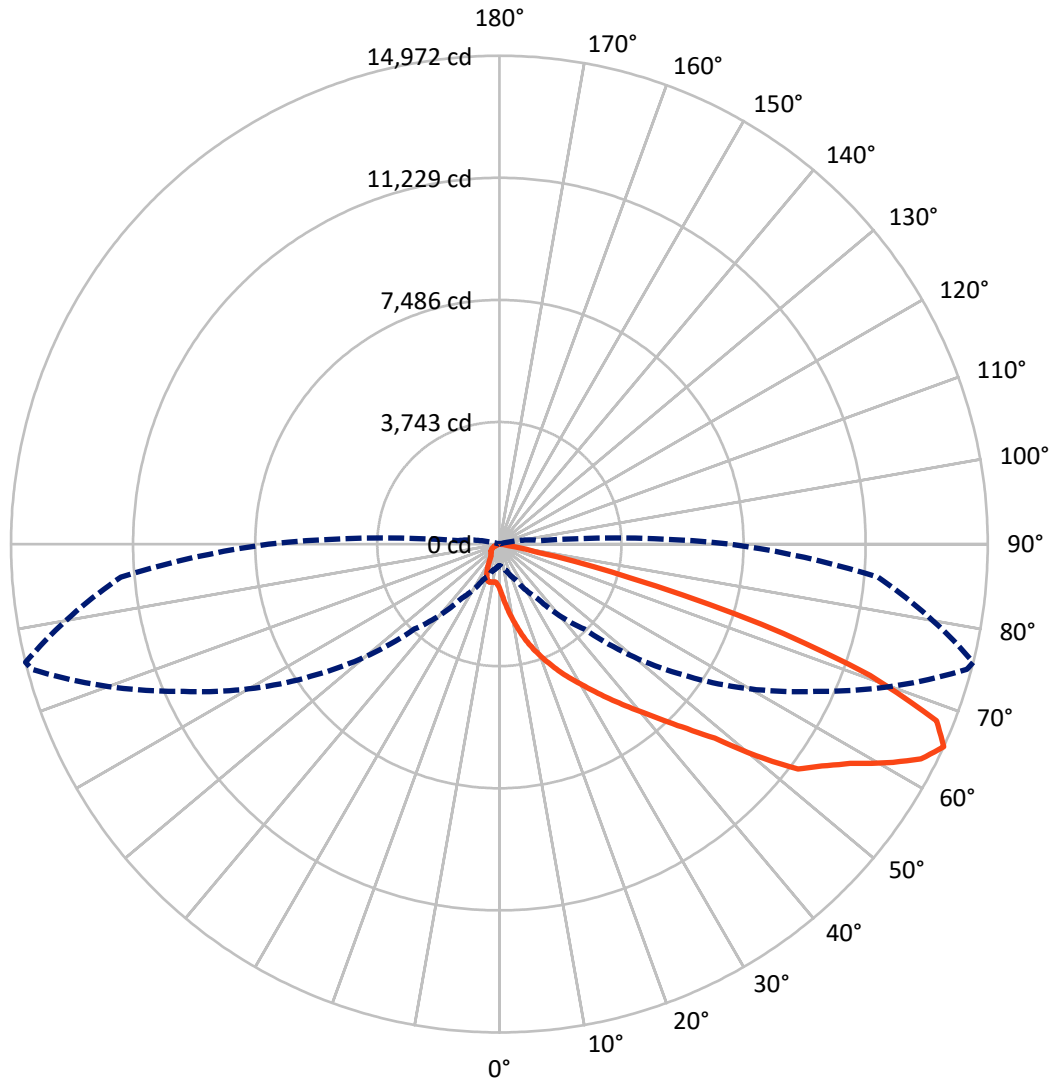
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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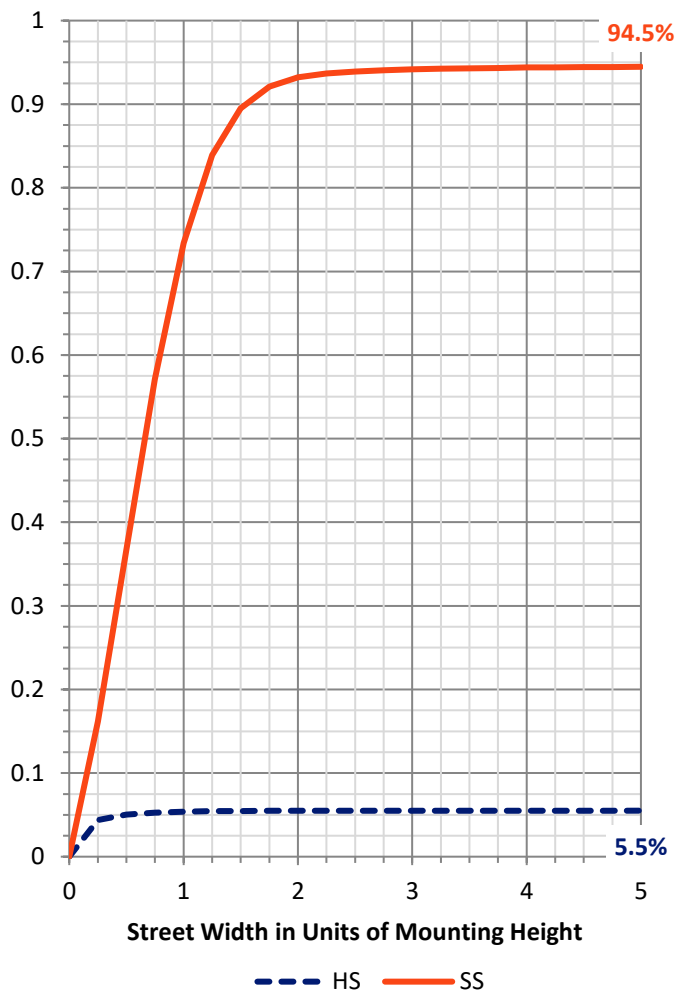
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	853.8	0.0	853.8
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	14586.7	0.0	14586.7
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	15440.5	0.0	15440.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.3	1.1
10°-20°	631.1	4.1
20°-30°	1287.4	8.3
30°-40°	2289.8	14.8
40°-50°	3384.8	21.9
50°-60°	3875.3	25.1
60°-70°	2956.7	19.1
70°-80°	828.2	5.4
80°-90°	20.8	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°	15440.5	100.0
0°-180°	15440.5	100.0

**Coefficient of Utilization**

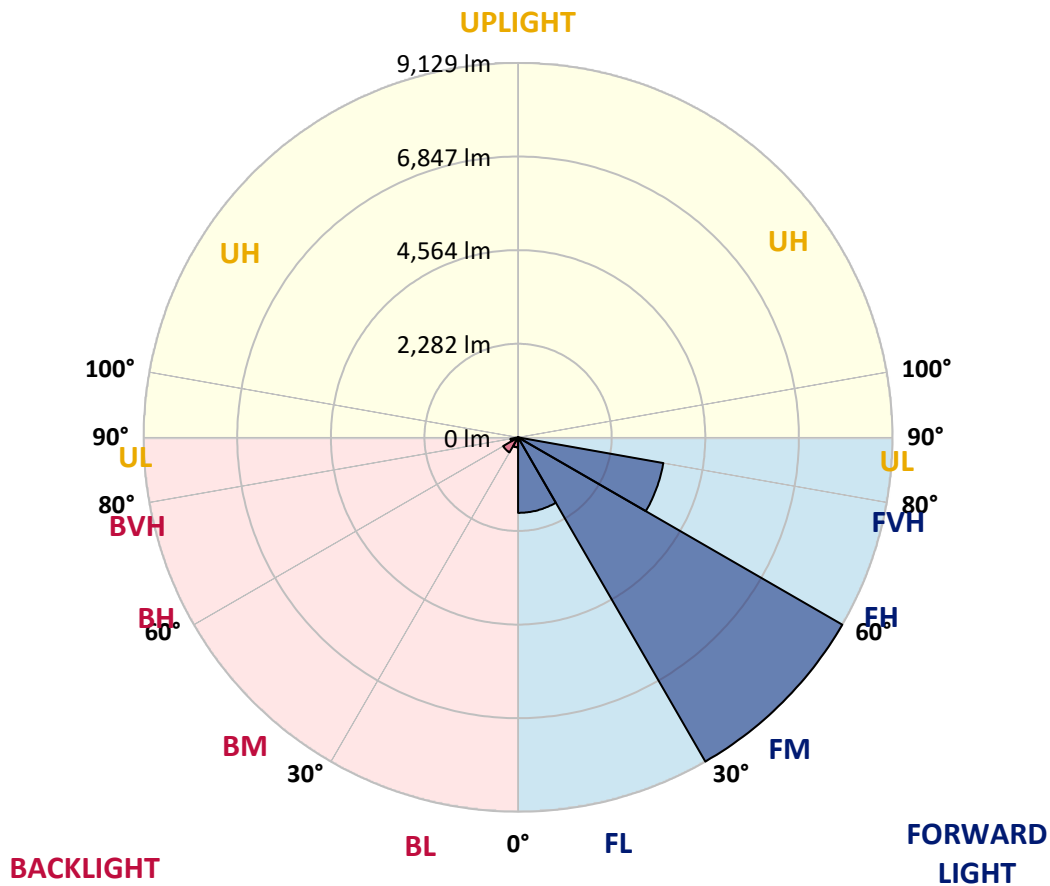


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1841.2	11.9			
FM (30°-60°)	9128.7	59.1			
FH (60°-80°)	3597.3	23.3			G2/5000
FVH (80°-90°)	19.6	0.1			G1/100
BL (0°-30°)	243.6	1.6	B1/500		
BM (30°-60°)	421.2	2.7	B1/1000		
BH (60°-80°)	187.7	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°	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0
2.5°	2106.8	2138.4	2113.7	2072.5	1992.9	1916.1	1817.2	1681.4	1572.9	1559.2	1457.6
5°	2845.3	2842.5	2789.0	2735.5	2651.7	2520.0	2321.0	2068.4	1825.5	1804.9	1577.0
7.5°	3284.5	3288.6	3258.4	3217.2	3134.9	2999.0	2791.7	2487.0	2131.6	2090.4	1740.4
10°	3653.7	3652.3	3630.4	3611.1	3537.0	3446.4	3224.1	2889.2	2461.0	2396.5	1922.9
12.5°	3930.9	3940.6	3951.5	3970.8	3939.2	3850.0	3640.0	3274.9	2794.5	2723.1	2131.6
15°	4150.6	4153.3	4194.5	4268.6	4294.7	4248.0	4057.2	3648.2	3123.9	3062.1	2371.7
17.5°	4216.4	4221.9	4291.9	4427.8	4565.1	4591.1	4447.0	4024.3	3447.8	3381.9	2605.1
20°	4355.1	4367.4	4419.6	4539.0	4711.9	4851.9	4795.6	4404.5	3771.7	3685.3	2843.9
22.5°	4791.5	4798.4	4780.5	4795.6	4884.9	5046.8	5081.1	4772.3	4103.9	4011.9	3101.9
25°	5542.3	5545.1	5420.2	5302.1	5234.9	5265.1	5340.5	5111.3	4433.3	4342.7	3342.1
27.5°	6321.9	6331.5	6181.9	5981.5	5741.3	5604.1	5582.1	5421.5	4765.5	4665.3	3579.6
30°	7056.2	7056.2	6898.4	6654.1	6332.9	6065.2	5907.4	5734.5	5120.9	5011.1	3822.5
32.5°	7716.4	7710.9	7509.2	7244.3	6927.2	6633.5	6301.3	6061.1	5516.2	5394.1	4102.5
35°	8261.3	8247.6	8018.4	7764.4	7425.4	7207.2	6836.6	6412.5	5944.5	5822.3	4390.7
37.5°	8673.1	8658.0	8448.0	8179.0	7864.6	7723.3	7413.1	6833.9	6396.0	6284.8	4710.5
40°	8896.8	8866.6	8721.1	8520.7	8257.2	8133.7	8004.6	7356.8	6927.2	6788.6	5088.0
42.5°	8962.7	8927.0	8830.9	8737.6	8578.4	8480.9	8619.5	7947.0	7510.5	7391.1	5519.0
45°	8767.8	8747.2	8738.9	8806.2	8835.0	8862.5	9204.2	8600.3	8154.2	8063.7	6061.1
47.5°	8298.4	8292.9	8365.6	8645.6	8950.3	9239.9	9839.7	9406.0	8988.7	8891.3	6818.8
50°	7430.9	7487.2	7690.3	8181.7	8791.1	9454.0	10434.0	10523.2	10339.3	10196.6	7807.0
52.5°	6074.9	6183.3	6639.0	7385.6	8261.3	9393.6	10708.5	11418.1	11606.2	11457.9	8515.2
55°	4766.8	4868.4	5274.7	6221.7	7389.7	8933.8	10720.9	11727.0	12137.3	12000.1	8994.2
57.5°	3550.8	3644.1	4013.3	4919.2	6203.9	8029.3	10427.2	11898.5	12767.3	12679.5	9750.5
60°	2321.0	2412.9	2746.4	3538.4	4812.1	6711.7	9703.8	11862.8	13625.2	13616.9	10679.7
62.5°	1287.4	1360.2	1601.8	2219.4	3358.6	5197.8	8567.4	11504.6	14455.6	14507.7	11445.6
65°	658.8	705.5	852.3	1220.2	2032.7	3685.3	7072.7	10683.8	14839.9	14971.6	11647.4
67.5°	431.0	446.1	481.8	634.1	1088.4	2318.2	5322.7	9367.6	14299.1	14452.8	10970.7
70°	350.0	362.3	382.9	422.7	561.4	1231.2	3495.9	7481.7	11947.9	12052.3	8736.2
72.5°	256.7	273.1	312.9	339.0	404.9	675.3	1818.6	4910.9	8205.0	8388.9	5490.2
75°	189.4	199.0	232.0	267.6	330.8	426.9	695.9	2581.7	4237.0	4130.0	2305.9
77.5°	113.9	120.8	148.2	171.6	236.1	266.3	242.9	953.9	1288.8	1212.0	557.3
80°	56.3	63.1	97.5	129.0	151.0	107.1	101.6	266.3	286.9	286.9	140.0
82.5°	19.2	24.7	52.2	85.1	74.1	41.2	48.0	68.6	76.9	81.0	41.2
85°	0.0	0.0	12.4	24.7	11.0	5.5	12.4	15.1	19.2	20.6	13.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	5.5	5.5
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°	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0
2.5°	1402.7	1338.2	1240.8	1152.9	1085.7	1022.5	974.5	936.1	929.2	907.2	910.0
5°	1465.9	1349.2	1169.4	1030.8	933.3	867.4	812.5	771.4	753.5	735.7	722.0
7.5°	1563.3	1394.5	1142.0	973.1	859.2	757.6	672.5	603.9	571.0	550.4	536.7
10°	1682.7	1457.6	1143.3	938.8	770.0	614.9	498.2	422.7	387.1	376.1	374.7
12.5°	1825.5	1537.2	1154.3	882.5	641.0	457.1	369.2	334.9	323.9	314.3	314.3
15°	1976.5	1626.5	1154.3	779.6	488.6	356.9	319.8	297.8	284.1	278.6	275.9
17.5°	2135.7	1710.2	1126.9	638.2	374.7	314.3	284.1	263.5	252.5	244.3	241.6
20°	2305.9	1789.8	1058.2	488.6	321.2	281.4	252.5	232.0	221.0	212.7	212.7
22.5°	2478.8	1863.9	947.1	376.1	284.1	249.8	222.4	203.1	192.2	183.9	183.9
25°	2639.4	1913.3	804.3	310.2	256.7	222.4	197.6	178.4	166.1	160.6	157.8
27.5°	2789.0	1944.9	646.5	273.1	230.6	199.0	172.9	155.1	145.5	141.4	138.6
30°	2944.1	1953.1	494.1	248.4	208.6	175.7	151.0	137.3	129.0	123.5	123.5
32.5°	3095.1	1943.5	377.4	227.8	189.4	155.1	134.5	122.2	115.3	111.2	109.8
35°	3248.8	1899.6	306.1	210.0	170.2	135.9	119.4	109.8	105.7	100.2	100.2
37.5°	3416.2	1840.6	266.3	192.2	151.0	122.2	107.1	100.2	94.7	90.6	89.2
40°	3624.9	1771.9	244.3	177.1	133.1	109.8	96.1	89.2	85.1	81.0	79.6
42.5°	3871.9	1704.7	233.3	160.6	119.4	97.5	86.5	78.2	74.1	68.6	67.3
45°	4221.9	1689.6	221.0	142.7	107.1	87.8	75.5	67.3	61.8	57.6	56.3
47.5°	4784.7	1732.1	200.4	123.5	94.7	76.9	64.5	57.6	50.8	46.7	43.9
50°	5343.3	1721.2	179.8	107.1	83.7	65.9	54.9	48.0	41.2	37.1	35.7
52.5°	5648.0	1669.0	160.6	94.7	72.7	56.3	46.7	38.4	34.3	30.2	28.8
55°	5923.9	1648.4	141.4	82.4	61.8	49.4	38.4	31.6	28.8	24.7	23.3
57.5°	6464.7	1696.5	124.9	71.4	53.5	42.5	32.9	26.1	23.3	19.2	17.8
60°	7030.1	1701.9	107.1	61.8	46.7	35.7	26.1	20.6	17.8	13.7	12.4
62.5°	7325.2	1563.3	87.8	52.2	38.4	30.2	22.0	16.5	13.7	8.2	8.2
65°	7078.2	1264.1	74.1	42.5	30.2	23.3	16.5	12.4	8.2	4.1	1.4
67.5°	6264.3	899.0	61.8	34.3	22.0	16.5	12.4	8.2	1.4	0.0	0.0
70°	4587.0	513.3	48.0	24.7	16.5	11.0	8.2	4.1	0.0	0.0	0.0
72.5°	2819.2	274.5	35.7	16.5	12.4	8.2	6.9	2.7	0.0	0.0	0.0
75°	1069.2	131.8	22.0	11.0	9.6	6.9	4.1	1.4	0.0	0.0	0.0
77.5°	289.6	64.5	12.4	8.2	6.9	4.1	2.7	0.0	0.0	0.0	0.0
80°	75.5	30.2	8.2	5.5	4.1	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	26.1	13.7	4.1	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0
85°	11.0	5.5	2.7	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	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)