

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: P637775

Luminaire Tested: GWS-SA4D-740-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-740-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

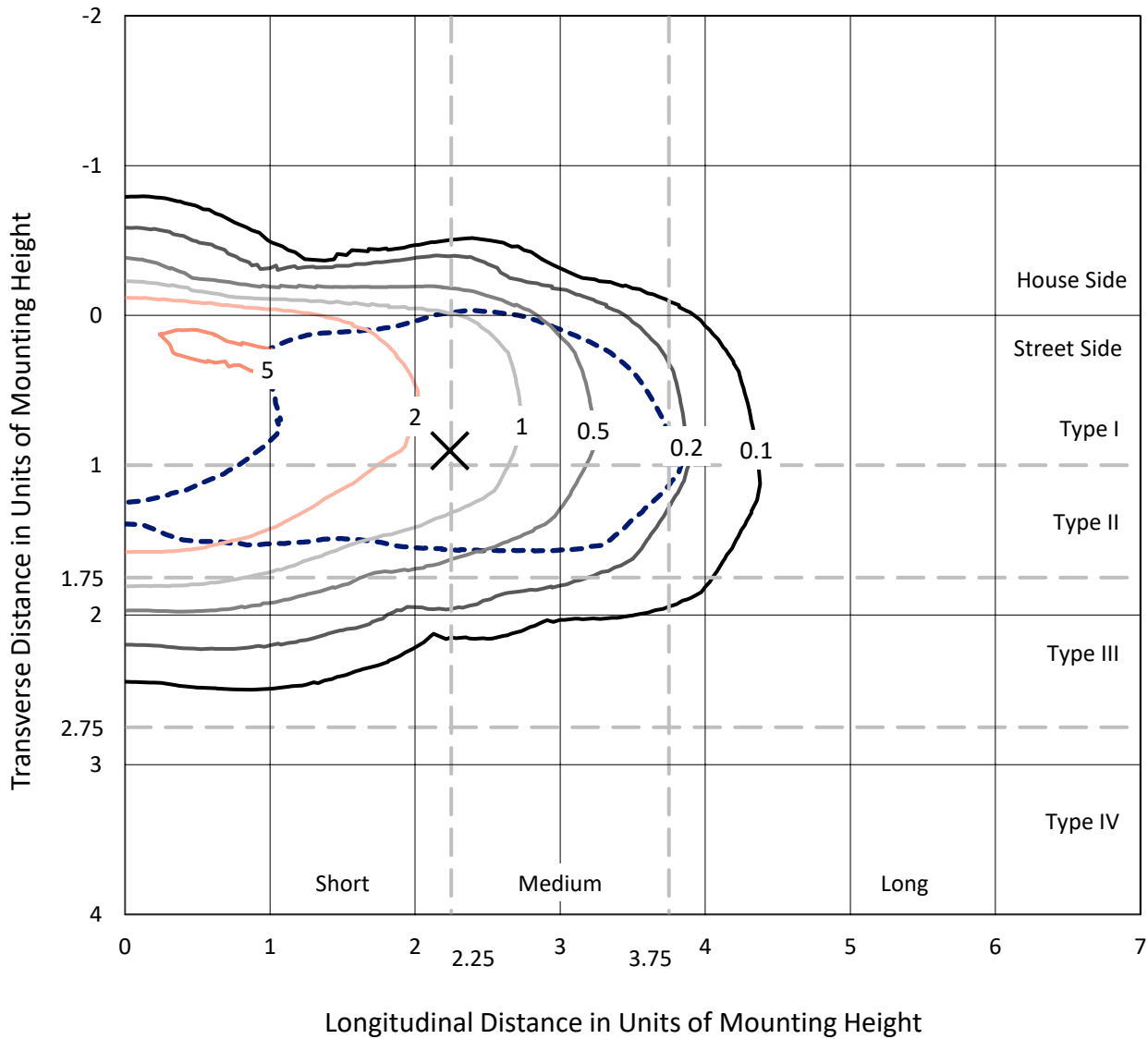
Lumens per Lamp: N/A  
Luminaire Lumens: 18343.7 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

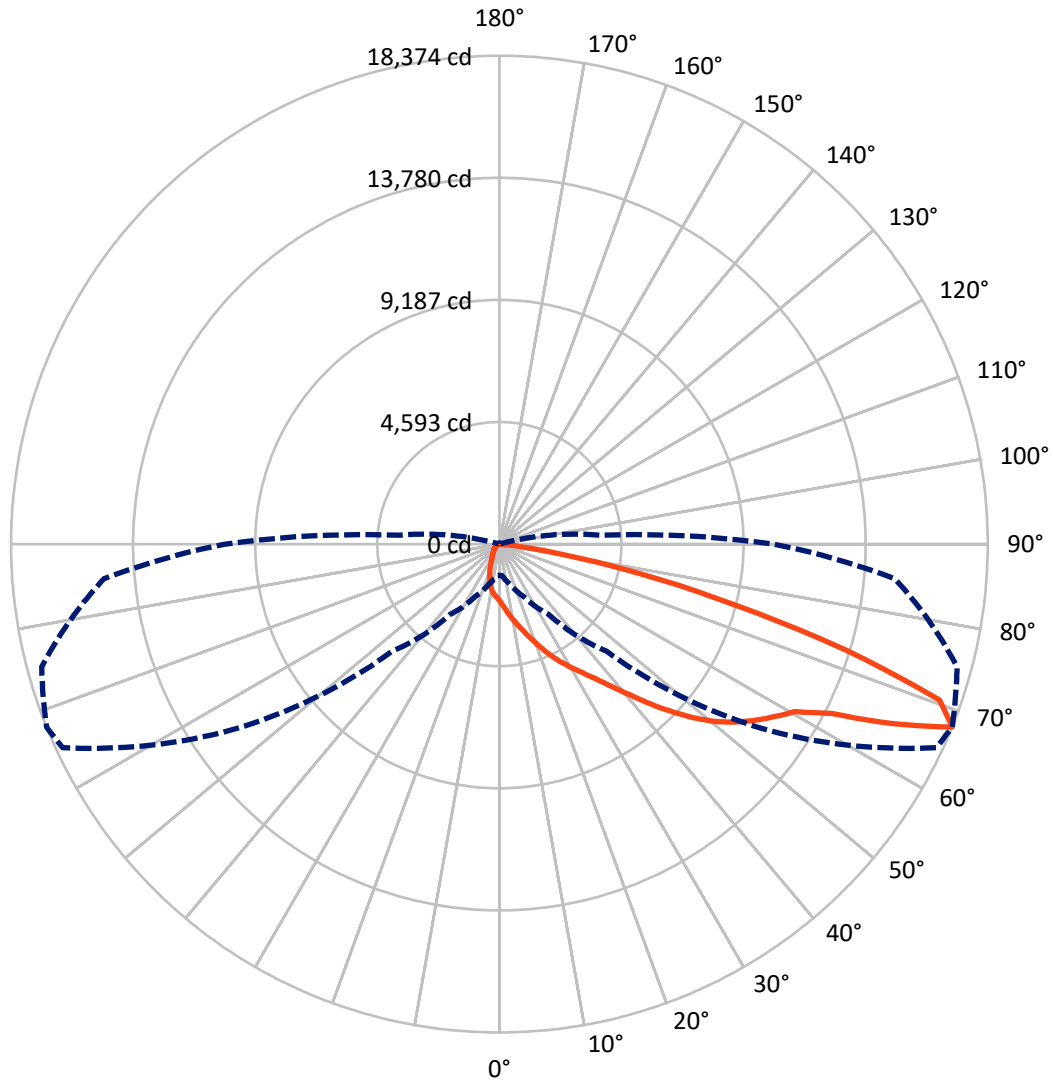
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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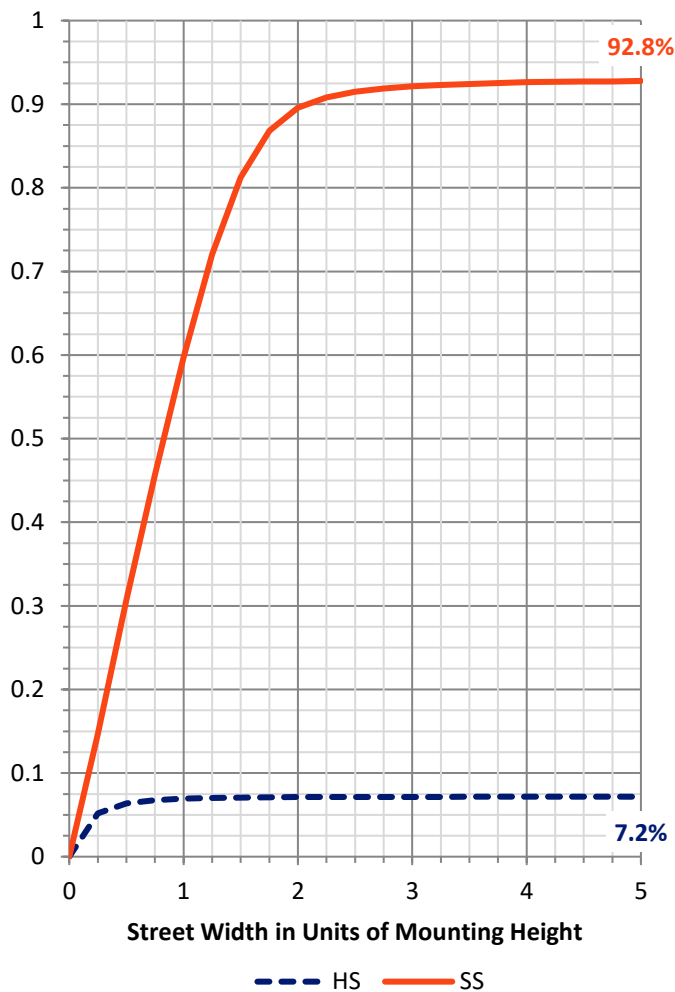
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1324.6	0.0	1324.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	17019.1	0.0	17019.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	18343.7	0.0	18343.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.2	1.1
10°-20°	597.9	3.3
20°-30°	1027.5	5.6
30°-40°	1786.4	9.7
40°-50°	3117.1	17.0
50°-60°	4701.4	25.6
60°-70°	4714.3	25.7
70°-80°	2079.9	11.3
80°-90°	111.1	0.6
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°	18343.7	100.0
0°-180°	18343.7	100.0

**Coefficient of Utilization**



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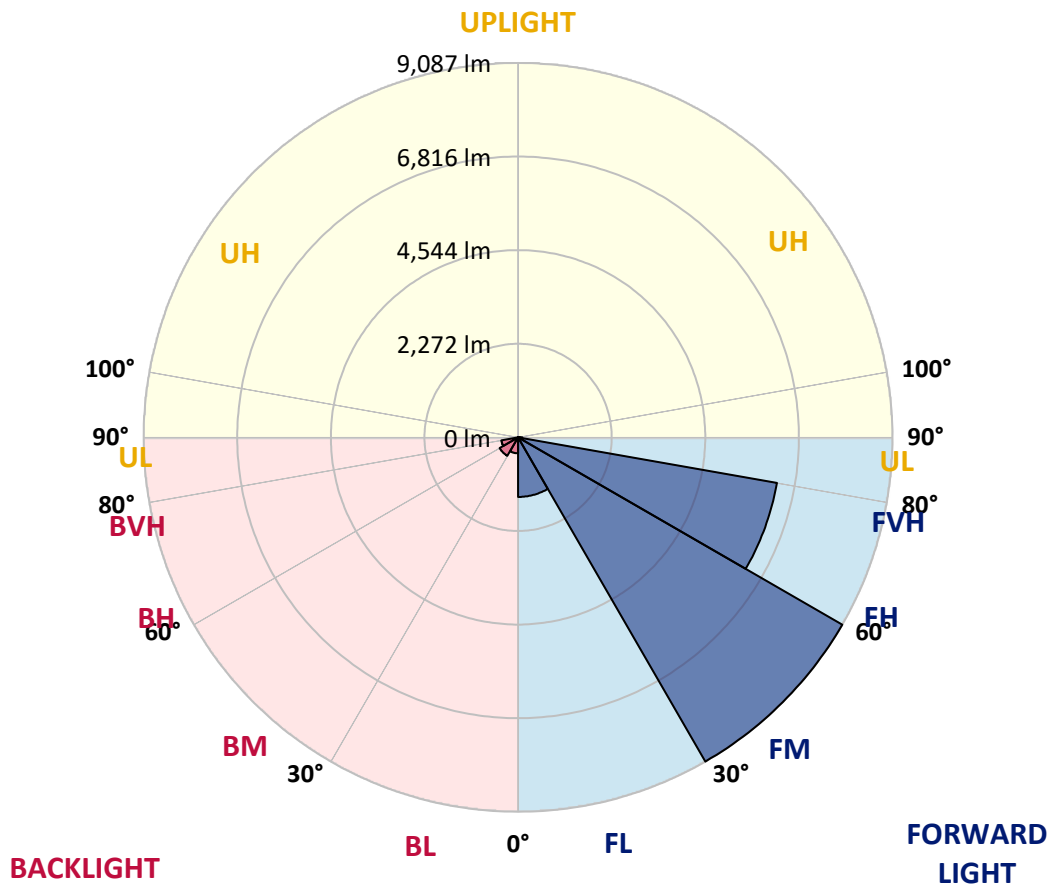
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1446.0	7.9			
FM (30°-60°)	9087.4	49.5			
FH (60°-80°)	6380.8	34.8			G3/7500
FVH (80°-90°)	104.8	0.6			G2/225
BL (0°-30°)	387.5	2.1	B1/500		
BM (30°-60°)	517.4	2.8	B1/1000		
BH (60°-80°)	413.4	2.3	B1/500		G1/500
BVH (80°-90°)	6.3	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°	68°	75°	85°
0°	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7
2.5°	2485.8	2501.6	2485.8	2489.4	2443.7	2422.6	2377.0	2313.8	2298.0	2257.6	2196.2
5°	2789.6	2803.6	2787.8	2784.3	2731.6	2693.0	2617.5	2508.7	2477.1	2398.1	2276.9
7.5°	2954.6	2963.4	2968.6	2977.4	2958.1	2926.5	2858.0	2722.8	2689.5	2561.3	2391.0
10°	2972.1	2979.2	3005.5	3058.2	3096.8	3116.1	3077.5	2952.8	2900.2	2775.5	2531.5
12.5°	2923.0	2933.5	2975.6	3063.4	3170.5	3268.8	3293.4	3184.6	3137.2	2977.4	2696.5
15°	2858.0	2866.8	2924.7	3044.1	3205.6	3386.4	3488.3	3440.9	3388.2	3221.4	2879.1
17.5°	2758.0	2770.2	2851.0	3012.5	3221.4	3479.5	3698.9	3714.7	3677.9	3497.0	3081.0
20°	2701.8	2710.6	2782.5	2949.3	3210.9	3548.0	3895.5	4044.8	4004.4	3814.8	3312.7
22.5°	2749.2	2756.2	2803.6	2933.5	3175.8	3586.6	4078.1	4374.8	4352.0	4155.4	3556.7
25°	2998.5	3021.3	2993.2	3016.0	3191.6	3607.6	4225.6	4704.9	4710.1	4511.7	3809.5
27.5°	3504.1	3474.2	3407.5	3293.4	3314.5	3663.8	4352.0	5015.6	5061.2	4859.3	4034.2
30°	4018.4	4000.9	3960.5	3783.2	3635.7	3788.5	4459.1	5333.3	5405.3	5201.7	4234.4
32.5°	4596.0	4613.6	4541.6	4329.2	4078.1	4041.3	4569.7	5635.3	5770.5	5589.6	4469.6
35°	5285.9	5291.2	5149.0	4913.8	4629.4	4459.1	4768.1	5968.8	6218.1	6084.7	4783.9
37.5°	5958.3	5989.9	5912.7	5542.2	5289.5	4978.7	5096.3	6397.2	6748.3	6695.6	5178.9
40°	6553.4	6602.6	6578.0	6219.9	5888.1	5626.5	5605.4	6899.3	7389.1	7448.8	5700.2
42.5°	7027.4	7059.0	7078.3	6823.8	6530.6	6383.2	6233.9	7482.1	8145.7	8389.7	6339.3
45°	7527.8	7538.3	7578.7	7406.6	7150.3	7162.6	6976.5	8189.6	8942.7	9432.5	7073.1
47.5°	8165.0	8200.1	8180.8	8000.0	7768.3	7907.0	7743.7	8918.2	9729.2	10545.5	7824.5
50°	8941.0	8977.8	8960.3	8749.6	8491.6	8549.5	8447.7	9625.6	10487.6	11595.4	8449.4
52.5°	9341.2	9371.1	9588.8	9683.6	9548.4	9179.7	9048.1	10403.3	11128.4	12459.1	9023.5
55°	9148.1	9169.2	9643.2	10043.5	10538.5	10169.9	9652.0	11003.7	11693.7	13133.2	9450.1
57.5°	8347.6	8461.7	9106.0	9783.6	10824.7	11147.7	10631.6	11656.8	12237.9	13601.9	9869.7
60°	6706.2	6700.9	7624.3	8840.9	10266.4	11416.3	12014.9	12539.8	12783.9	13961.8	10431.4
62.5°	3706.0	3739.3	4968.2	6571.0	8714.5	10721.1	13052.5	14065.4	14028.5	14590.3	11311.0
65°	1845.1	1911.8	2578.9	3763.9	5798.6	8860.2	13231.5	16393.3	16287.9	16070.2	13128.0
67.5°	1170.9	1197.3	1565.9	2187.4	3223.2	5695.0	12116.8	18129.5	18373.5	17825.8	14930.9
70°	758.4	802.3	1088.4	1495.7	1945.1	2935.3	8876.0	17004.2	17564.2	17632.7	13807.3
72.5°	412.6	444.2	695.2	1067.4	1404.4	1467.6	4985.7	12761.0	13661.6	14957.2	10801.9
75°	235.2	258.1	381.0	725.0	1030.5	893.6	2210.2	8542.5	9116.5	10689.5	7740.2
77.5°	142.2	161.5	214.2	352.9	646.0	596.9	835.6	5199.9	5565.1	6377.9	4062.3
80°	65.0	77.2	135.2	194.9	352.9	282.6	319.5	2424.4	2503.4	2617.5	1344.7
82.5°	29.8	35.1	61.4	115.9	200.1	163.3	122.9	560.0	788.2	746.1	342.3
85°	3.5	3.5	22.8	47.4	56.2	42.1	50.9	126.4	159.8	224.7	98.3
87.5°	0.0	0.0	1.8	1.8	3.5	5.3	10.5	15.8	22.8	36.9	24.6
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°	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7
2.5°	2168.1	2118.9	2075.1	2010.1	1966.2	1917.1	1883.7	1843.3	1827.5	1815.2	1797.7
5°	2217.3	2138.3	2031.2	1911.8	1813.5	1720.4	1634.4	1578.2	1529.1	1522.1	1497.5
7.5°	2298.0	2180.4	1999.6	1804.7	1637.9	1483.4	1362.3	1264.0	1214.8	1199.0	1170.9
10°	2405.1	2243.6	1952.2	1653.7	1413.2	1228.9	1091.9	981.3	904.1	876.0	854.9
12.5°	2524.5	2301.5	1876.7	1467.6	1193.8	983.1	809.3	691.7	642.5	625.0	609.2
15°	2661.4	2355.9	1757.3	1281.5	979.6	723.3	600.4	549.5	528.4	523.2	517.9
17.5°	2793.1	2391.0	1615.1	1088.4	753.1	561.8	503.8	484.5	479.3	474.0	470.5
20°	2942.3	2415.6	1448.3	905.9	584.6	475.8	447.7	433.6	423.1	412.6	410.8
22.5°	3095.0	2415.6	1267.5	726.8	489.8	426.6	395.0	368.7	349.4	338.8	335.3
25°	3240.7	2382.3	1088.4	581.1	431.9	379.2	338.8	309.0	282.6	270.4	266.8
27.5°	3344.3	2296.3	932.2	491.6	391.5	337.1	287.9	254.6	233.5	221.2	219.4
30°	3409.3	2168.1	788.2	438.9	356.4	293.2	244.0	215.9	200.1	191.4	187.8
32.5°	3458.4	2010.1	660.1	402.0	323.0	254.6	212.4	189.6	175.6	168.5	166.8
35°	3556.7	1860.9	565.3	368.7	287.9	223.0	186.1	168.5	158.0	149.2	147.5
37.5°	3693.7	1736.2	489.8	338.8	254.6	198.4	168.5	152.7	144.0	135.2	133.4
40°	3895.5	1657.2	433.6	309.0	224.7	179.1	154.5	140.4	128.2	119.4	117.6
42.5°	4206.3	1620.4	396.8	279.1	198.4	161.5	142.2	124.6	112.4	103.6	101.8
45°	4576.7	1639.7	365.2	249.3	180.8	149.2	126.4	108.8	96.6	87.8	86.0
47.5°	4973.5	1708.1	338.8	221.2	163.3	136.9	112.4	93.0	82.5	73.7	72.0
50°	5387.8	1820.5	316.0	194.9	149.2	122.9	96.6	80.8	70.2	63.2	61.4
52.5°	5747.6	1973.2	293.2	175.6	136.9	108.8	84.3	70.2	59.7	52.7	50.9
55°	6091.7	2117.2	275.6	158.0	122.9	94.8	73.7	59.7	50.9	43.9	42.1
57.5°	6465.7	2269.9	254.6	142.2	110.6	84.3	65.0	50.9	43.9	36.9	35.1
60°	7009.9	2496.4	223.0	129.9	96.6	73.7	56.2	45.6	38.6	29.8	28.1
62.5°	7794.6	2908.9	187.8	112.4	82.5	63.2	47.4	38.6	31.6	24.6	21.1
65°	9262.2	3611.2	154.5	93.0	66.7	52.7	40.4	31.6	24.6	17.6	15.8
67.5°	10319.1	3793.7	124.6	75.5	54.4	40.4	33.4	24.6	17.6	12.3	10.5
70°	9021.7	2724.6	96.6	61.4	45.6	31.6	26.3	19.3	12.3	8.8	7.0
72.5°	6797.5	1780.1	72.0	47.4	35.1	26.3	19.3	15.8	10.5	7.0	5.3
75°	4790.9	1028.7	52.7	35.1	24.6	19.3	15.8	12.3	8.8	5.3	5.3
77.5°	2456.0	424.8	36.9	24.6	17.6	12.3	10.5	7.0	7.0	5.3	3.5
80°	746.1	140.4	21.1	15.8	12.3	8.8	5.3	5.3	5.3	3.5	1.8
82.5°	170.3	45.6	12.3	12.3	8.8	7.0	5.3	1.8	1.8	0.0	0.0
85°	43.9	14.0	10.5	8.8	8.8	7.0	3.5	1.8	0.0	0.0	0.0
87.5°	15.8	8.8	8.8	8.8	7.0	5.3	3.5	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)