

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: P638007

Luminaire Tested: GWS-SA4D-830-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-830-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

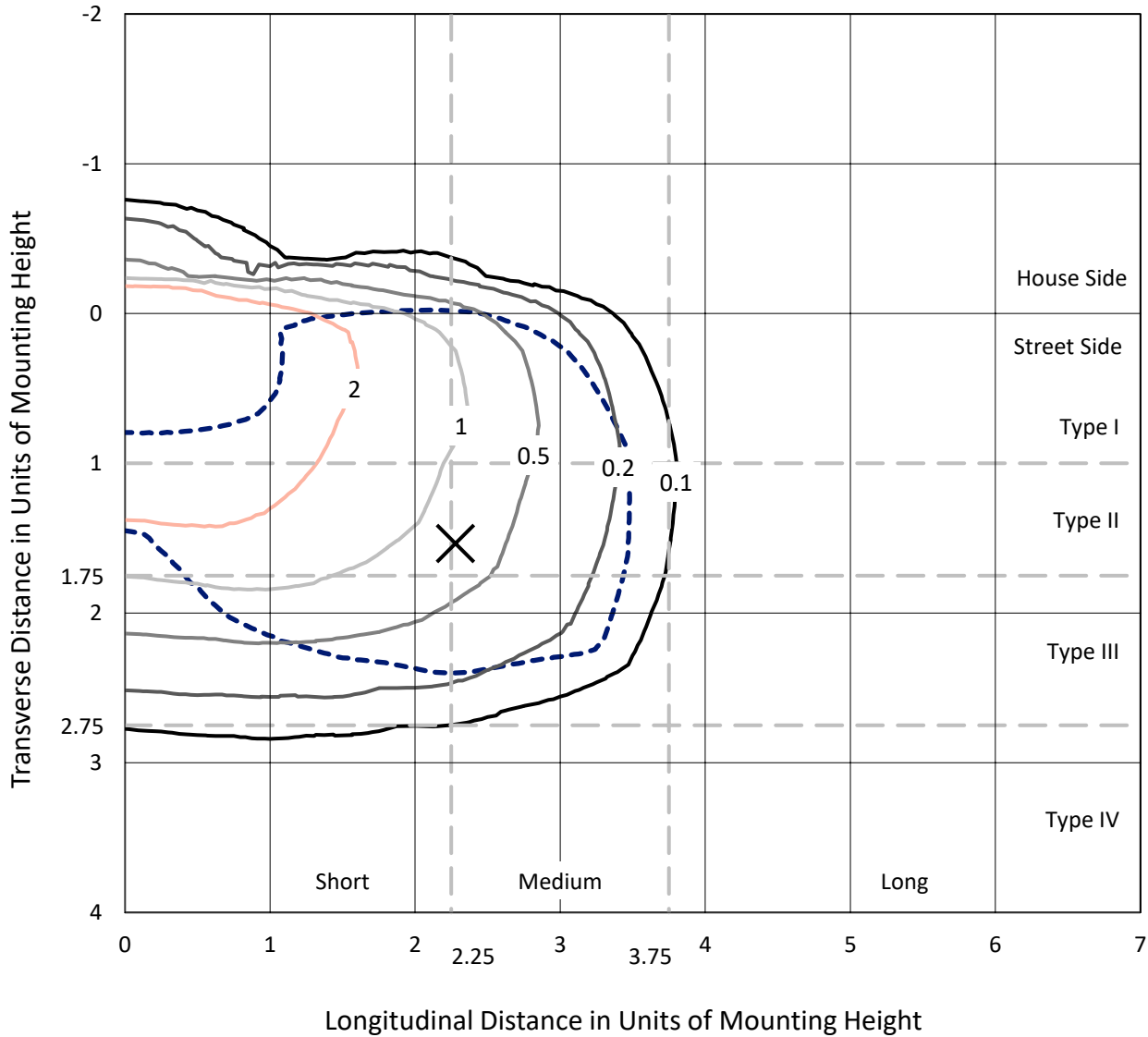
Lumens per Lamp: N/A  
Luminaire Lumens: 15228.9 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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

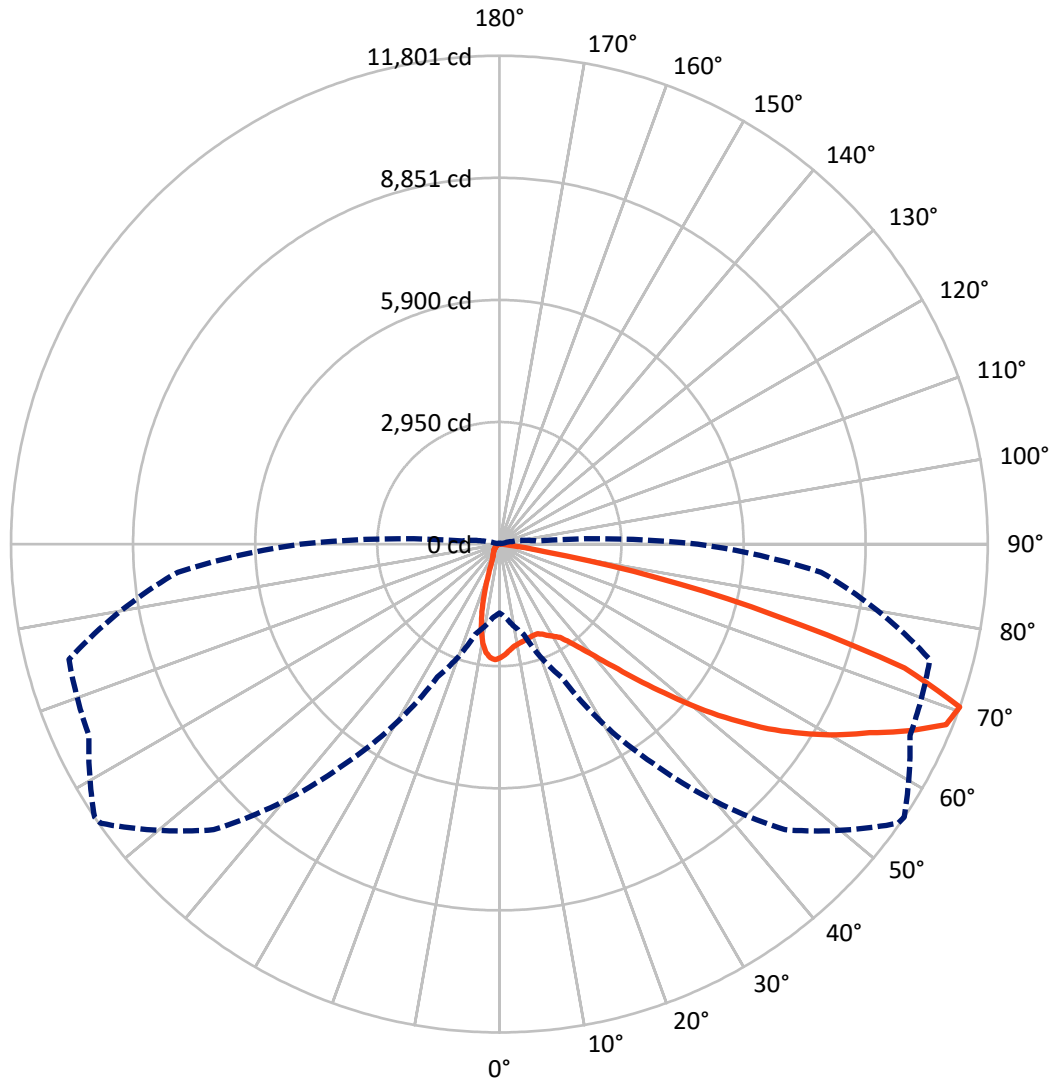
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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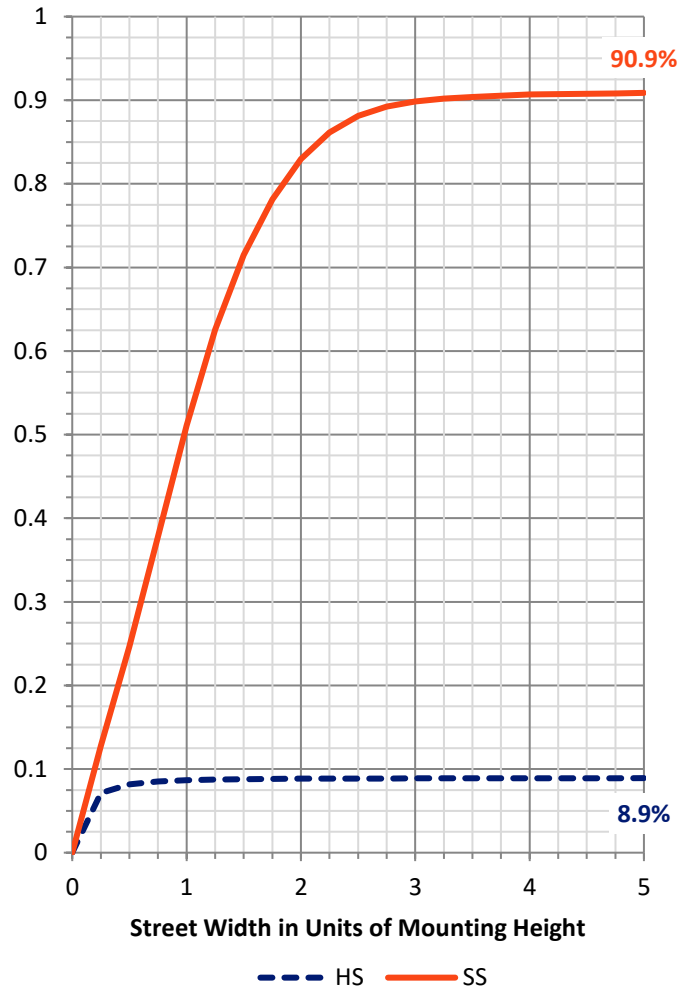
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1367.9	0.0	1367.9
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	13861.0	0.0	13861.0
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	15228.9	0.0	15228.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.8	1.5
10°-20°	530.3	3.5
20°-30°	839.9	5.5
30°-40°	1448.4	9.5
40°-50°	2445.9	16.1
50°-60°	3593.9	23.6
60°-70°	4260.7	28.0
70°-80°	1816.9	11.9
80°-90°	57.1	0.4
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°	15228.9	100.0
0°-180°	15228.9	100.0

**Coefficient of Utilization**



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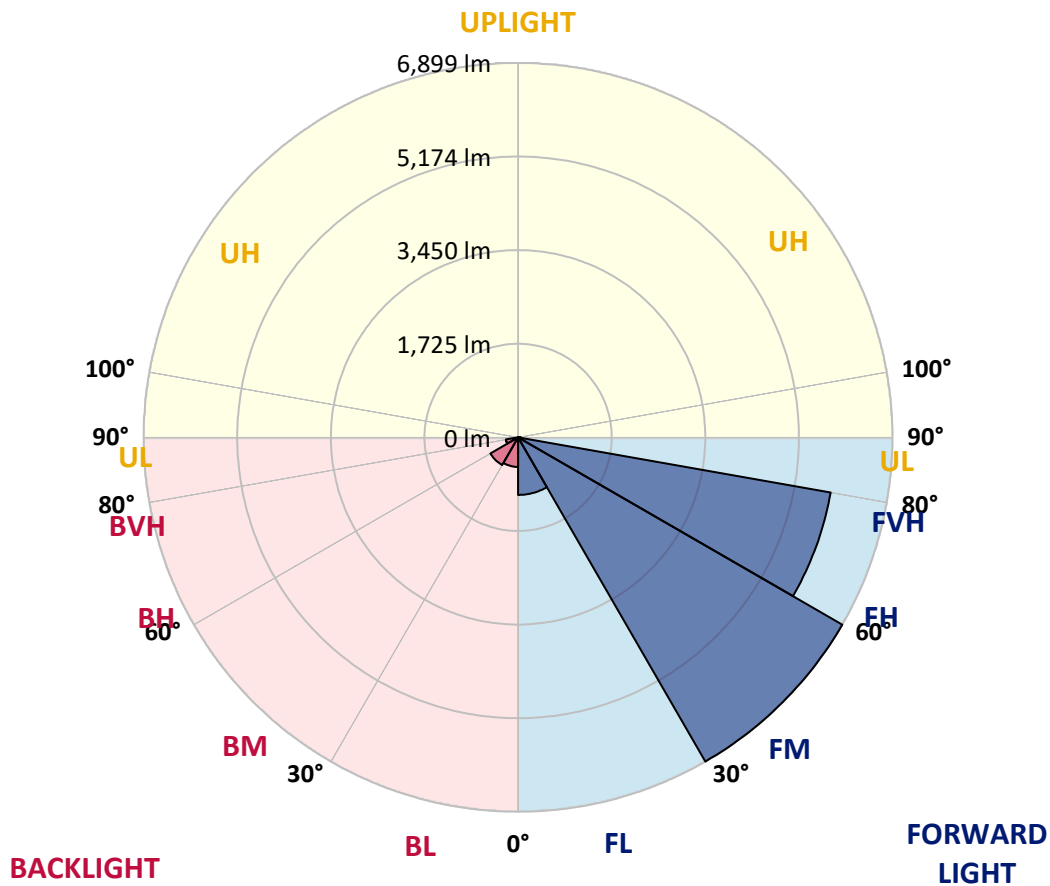
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.2	7.0			
FM (30°-60°)	6899.1	45.3			
FH (60°-80°)	5849.5	38.4			G3/7500
FVH (80°-90°)	51.3	0.3			G1/100
BL (0°-30°)	544.8	3.6	B2/1000		
BM (30°-60°)	589.2	3.9	B1/1000		
BH (60°-80°)	228.1	1.5	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2745.9	2745.9	2745.9	2745.9	2745.9	2745.9	2745.9	2745.9	2745.9	2745.9	2745.9
2.5°	2556.3	2552.1	2554.9	2575.8	2614.8	2633.0	2663.6	2669.2	2694.3	2726.4	2739.0
5°	2390.3	2376.4	2383.3	2412.6	2457.2	2507.5	2564.6	2580.0	2642.7	2713.8	2766.8
7.5°	2238.3	2223.0	2239.7	2285.7	2348.5	2402.9	2487.9	2497.7	2598.1	2723.6	2819.8
10°	1999.8	2004.0	2037.5	2118.4	2214.6	2327.6	2441.9	2455.9	2580.0	2755.7	2904.9
12.5°	1817.1	1807.4	1843.6	1935.7	2070.9	2235.5	2407.0	2425.2	2581.4	2804.5	3013.7
15°	1732.1	1729.3	1744.6	1811.6	1942.6	2136.5	2375.0	2398.7	2599.5	2849.1	3116.9
17.5°	1734.9	1730.7	1729.3	1768.3	1865.9	2062.6	2340.1	2370.8	2614.8	2897.9	3225.7
20°	1856.2	1836.7	1801.8	1783.7	1842.2	2015.2	2316.4	2351.3	2637.1	2949.5	3341.4
22.5°	2110.0	2117.0	2023.5	1925.9	1898.0	2020.7	2313.6	2354.0	2686.0	3030.4	3483.7
25°	2617.6	2606.5	2433.5	2214.6	2062.6	2084.9	2362.4	2411.2	2782.2	3146.2	3617.5
27.5°	3253.6	3263.3	3026.2	2677.6	2359.6	2217.4	2451.7	2500.5	2893.7	3218.7	3706.8
30°	3946.7	3936.9	3683.1	3296.8	2780.8	2437.7	2540.9	2584.2	2949.5	3257.7	3798.8
32.5°	4602.1	4579.8	4328.8	3924.3	3317.7	2785.0	2663.6	2688.7	3023.4	3342.8	3922.9
35°	5161.3	5159.9	4941.0	4510.1	3870.0	3220.1	2874.2	2895.1	3161.5	3478.1	4105.6
37.5°	5738.7	5719.2	5473.7	5080.4	4437.5	3697.0	3196.4	3188.0	3379.1	3677.5	4330.2
40°	6212.8	6200.3	6012.0	5634.1	5027.5	4224.2	3586.9	3561.8	3637.1	3953.6	4642.5
42.5°	6564.3	6565.7	6507.1	6277.0	5652.2	4833.6	4077.7	4038.7	4037.3	4370.6	5055.3
45°	6830.6	6848.8	6936.6	6901.8	6390.0	5543.4	4706.7	4666.3	4597.9	4911.7	5528.1
47.5°	6954.8	6978.5	7243.4	7382.9	7035.6	6247.7	5455.6	5370.5	5236.6	5631.3	6056.7
50°	6942.2	6984.0	7353.6	7777.6	7621.4	6961.7	6271.4	6231.0	6012.0	6392.7	6579.6
52.5°	6657.7	6747.0	7360.6	8017.4	8071.8	7620.0	7115.1	7039.8	6933.8	7187.7	7070.5
55°	5885.1	5993.9	7066.3	8094.1	8423.3	8194.5	7940.7	7879.4	7703.6	7937.9	7498.6
57.5°	5465.4	5558.8	6447.1	8056.5	8721.7	8725.9	8675.7	8625.5	8480.4	8679.9	8000.7
60°	5212.9	5306.4	6116.6	7918.4	8992.2	9286.5	9366.0	9360.4	9151.2	9523.6	8589.2
62.5°	4843.4	4971.7	5772.2	7560.0	9184.7	9838.7	10078.6	10041.0	9808.1	10402.2	9172.1
65°	4097.3	4208.8	5066.5	6968.7	9071.7	10296.2	10851.2	10870.7	10601.6	11229.1	9632.3
67.5°	2872.8	2955.1	3807.2	5727.5	8304.7	10446.8	11641.9	11640.5	11181.7	11653.1	9428.7
70°	1665.1	1778.1	2249.5	3540.8	6461.1	9762.0	11760.5	11800.9	10946.0	10767.5	7802.7
72.5°	644.3	737.7	1274.6	1881.3	3369.3	7477.7	10116.3	10234.8	9161.0	8306.1	5430.5
75°	192.5	214.8	599.7	1001.3	1352.7	3612.0	6848.8	6882.2	6284.0	5180.9	2783.6
77.5°	143.6	159.0	262.2	506.2	474.2	1094.7	3543.6	3870.0	3335.8	1850.6	767.0
80°	97.6	115.7	186.9	246.8	175.7	291.5	995.7	1093.3	1018.0	415.6	192.5
82.5°	43.2	55.8	132.5	124.1	64.2	83.7	306.8	326.3	210.6	125.5	66.9
85°	4.2	5.6	50.2	54.4	23.7	19.5	64.2	64.2	46.0	43.2	27.9
87.5°	0.0	0.0	1.4	2.8	2.8	4.2	5.6	7.0	8.4	11.2	13.9
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°	2745.9	2745.9	2745.9	2745.9	2745.9	2745.9	2745.9	2745.9	2745.9	2745.9	2745.9
2.5°	2771.0	2754.3	2775.2	2791.9	2796.1	2765.4	2747.3	2720.8	2715.2	2716.6	2709.7
5°	2808.7	2800.3	2815.7	2797.5	2750.1	2660.9	2584.2	2499.1	2453.1	2426.6	2423.8
7.5°	2878.4	2874.2	2857.5	2775.2	2627.4	2429.4	2238.3	2051.4	1935.7	1893.8	1886.9
10°	2981.6	2973.2	2904.9	2709.7	2394.5	2013.8	1693.0	1425.3	1262.1	1214.7	1156.1
12.5°	3100.1	3083.4	2934.2	2568.8	2043.1	1515.9	1115.7	815.8	675.0	633.1	633.1
15°	3214.5	3178.2	2917.5	2335.9	1610.7	986.0	623.4	471.4	428.1	417.0	417.0
17.5°	3331.6	3261.9	2851.9	2018.0	1112.9	582.9	415.6	386.3	380.7	382.1	383.5
20°	3441.8	3333.0	2736.2	1635.8	709.8	407.2	372.4	365.4	362.6	365.4	364.0
22.5°	3561.8	3398.6	2560.4	1218.9	461.6	366.8	354.2	348.6	345.9	350.0	350.0
25°	3680.3	3446.0	2327.6	820.0	366.8	341.7	334.7	329.1	326.3	327.7	327.7
27.5°	3741.7	3427.9	2022.1	523.0	329.1	316.6	309.6	302.6	298.4	297.0	298.4
30°	3783.5	3372.1	1648.4	372.4	298.4	283.1	276.1	270.5	259.4	252.4	255.2
32.5°	3849.0	3316.3	1242.6	312.4	273.3	249.6	238.5	224.5	209.2	202.2	202.2
35°	3927.1	3239.6	871.6	281.7	246.8	221.7	200.8	177.1	159.0	153.4	153.4
37.5°	4030.3	3167.1	580.1	260.8	224.5	198.0	168.7	140.9	121.3	118.5	117.1
40°	4185.1	3105.7	408.6	245.4	205.0	172.9	138.1	108.8	94.8	90.6	90.6
42.5°	4385.9	3043.0	323.5	230.1	188.3	149.2	110.2	86.5	75.3	72.5	71.1
45°	4634.2	2969.1	281.7	216.2	171.5	124.1	87.9	72.5	64.2	61.4	61.4
47.5°	4903.3	2868.6	262.2	198.0	152.0	100.4	73.9	62.8	58.6	57.2	55.8
50°	5168.3	2733.4	245.4	181.3	129.7	82.3	64.2	57.2	54.4	53.0	53.0
52.5°	5399.8	2575.8	224.5	161.8	106.0	71.1	57.2	53.0	50.2	47.4	46.0
55°	5597.8	2404.3	198.0	139.5	86.5	62.8	53.0	48.8	46.0	43.2	41.8
57.5°	5853.0	2306.6	159.0	113.0	71.1	55.8	48.8	44.6	41.8	37.7	37.7
60°	6136.1	2235.5	118.5	89.3	61.4	51.6	44.6	40.4	37.7	33.5	33.5
62.5°	6363.5	2129.5	93.4	72.5	53.0	46.0	40.4	36.3	33.5	29.3	29.3
65°	6449.9	1910.6	76.7	57.2	43.2	40.4	36.3	33.5	29.3	25.1	25.1
67.5°	6059.4	1472.7	64.2	46.0	36.3	34.9	32.1	30.7	25.1	22.3	20.9
70°	4798.7	898.1	53.0	37.7	30.7	29.3	29.3	26.5	22.3	20.9	19.5
72.5°	3288.4	463.0	43.2	30.7	26.5	26.5	25.1	23.7	20.9	19.5	19.5
75°	1708.4	154.8	33.5	23.7	20.9	22.3	22.3	20.9	19.5	19.5	18.1
77.5°	489.5	69.7	25.1	18.1	16.7	16.7	18.1	18.1	18.1	16.7	16.7
80°	126.9	40.4	18.1	13.9	13.9	13.9	13.9	15.3	16.7	15.3	15.3
82.5°	51.6	22.3	12.6	11.2	11.2	11.2	11.2	12.6	13.9	13.9	13.9
85°	32.1	11.2	9.8	9.8	9.8	8.4	8.4	9.8	9.8	11.2	11.2
87.5°	19.5	8.4	8.4	8.4	8.4	7.0	7.0	7.0	7.0	7.0	7.0
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)