

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: P642949

Luminaire Tested: GWS-SA6D-830-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642949  
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-SA6D-830-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

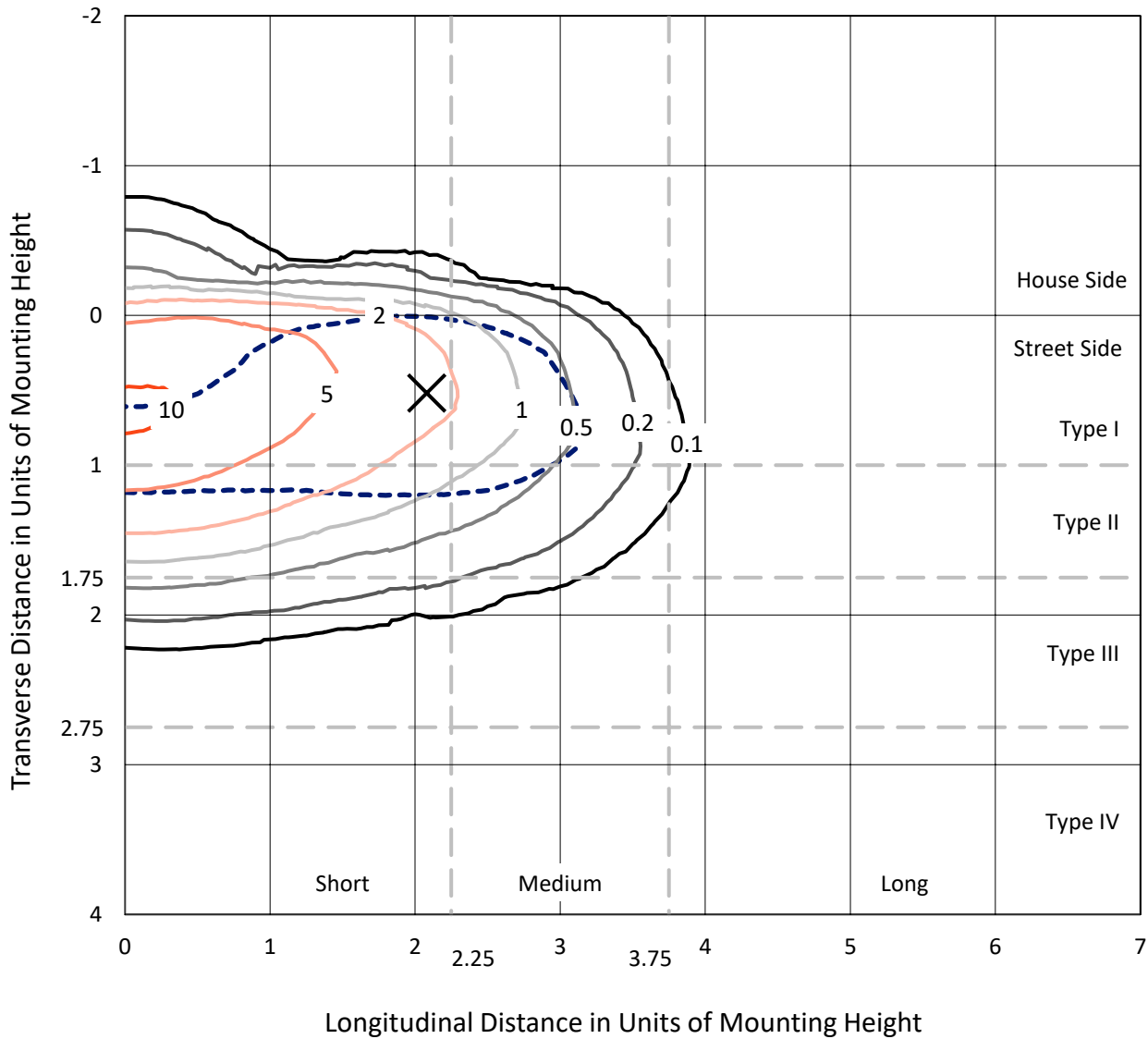
Lumens per Lamp: N/A  
Luminaire Lumens: 22949.5 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

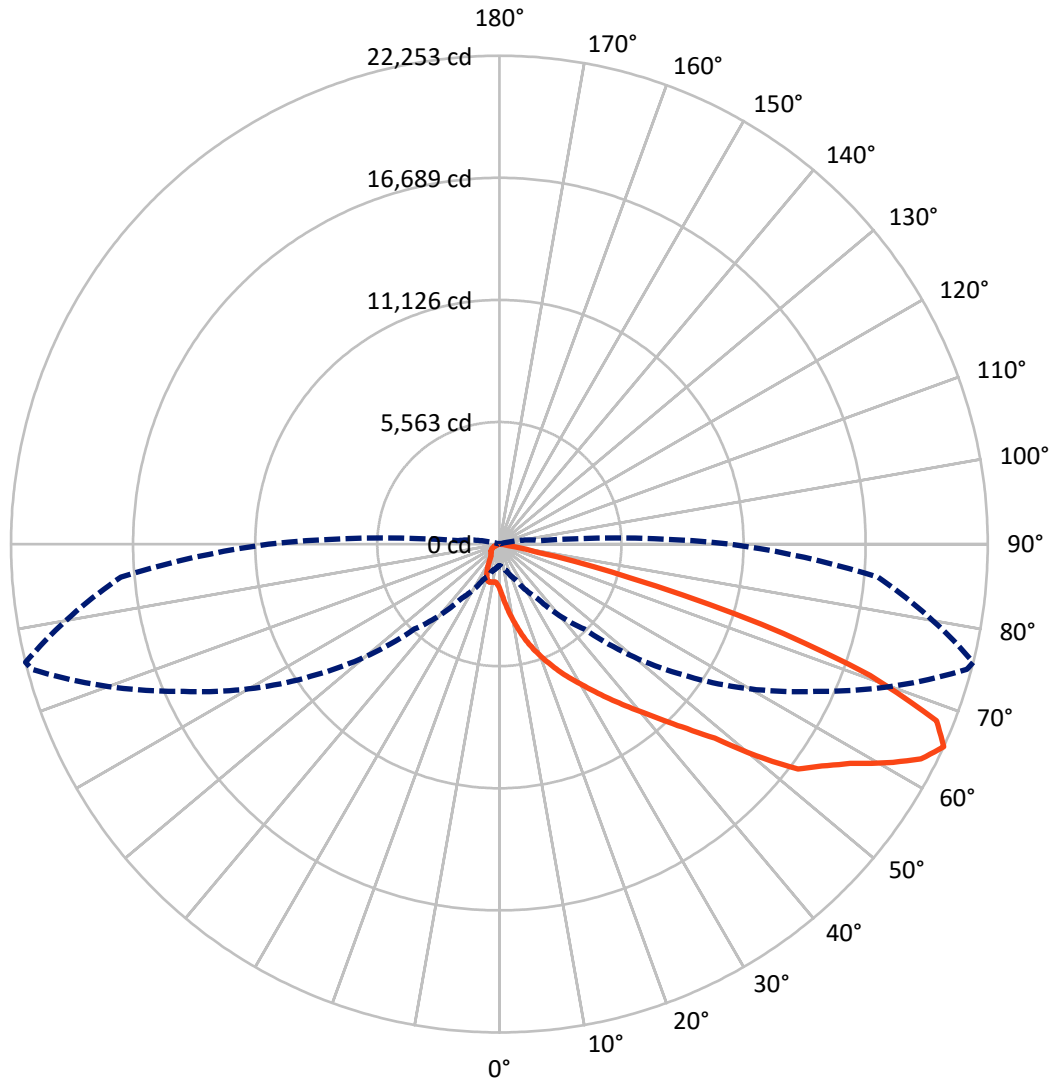
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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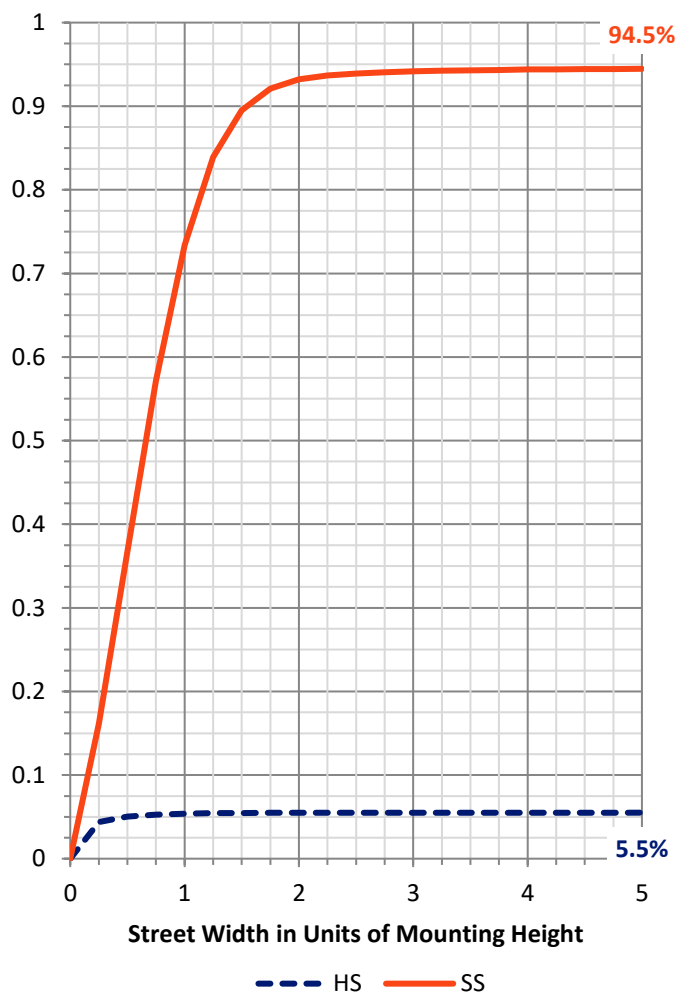
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1269.0	0.0	1269.0
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	21680.5	0.0	21680.5
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	22949.5	0.0	22949.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.2	1.1
10°-20°	937.9	4.1
20°-30°	1913.5	8.3
30°-40°	3403.3	14.8
40°-50°	5030.9	21.9
50°-60°	5760.0	25.1
60°-70°	4394.6	19.1
70°-80°	1231.0	5.4
80°-90°	31.0	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°	22949.5	100.0
0°-180°	22949.5	100.0

**Coefficient of Utilization**



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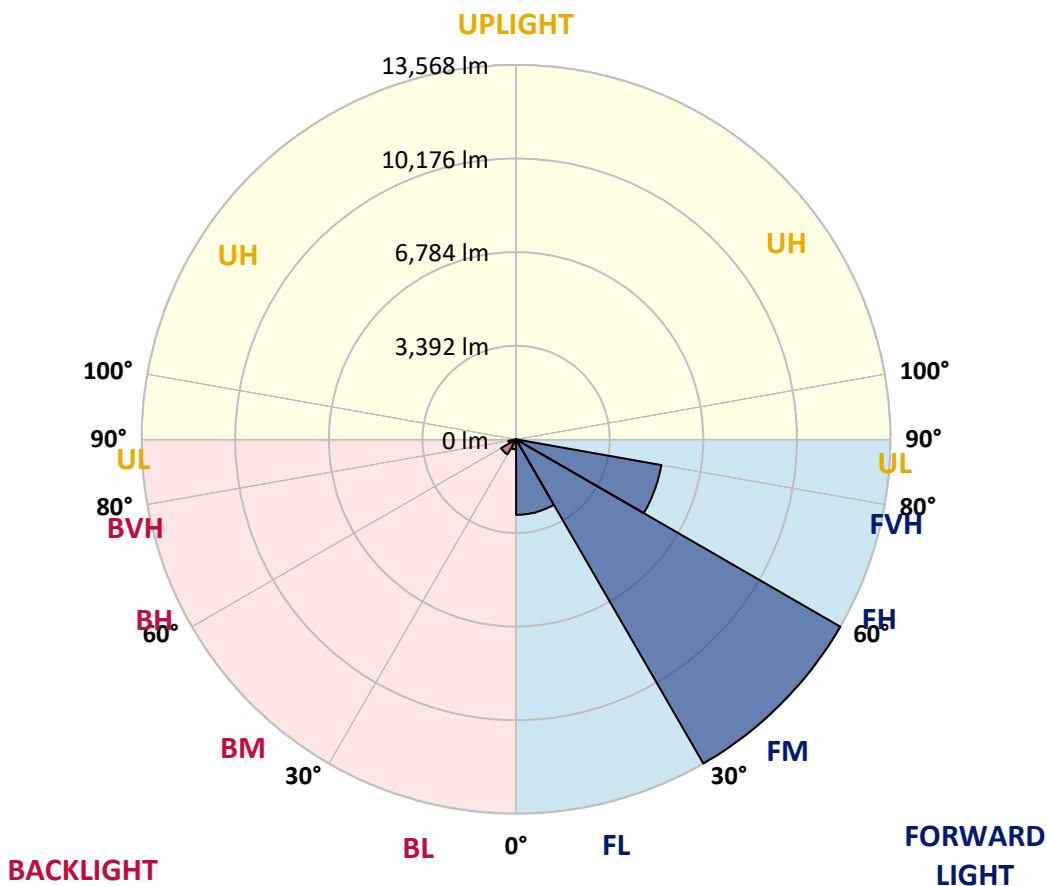
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2736.6	11.9			
FM (30°-60°)	13568.1	59.1			
FH (60°-80°)	5346.7	23.3			G3/7500
FVH (80°-90°)	29.2	0.1			G1/100
BL (0°-30°)	362.1	1.6	B1/500		
BM (30°-60°)	626.1	2.7	B1/1000		
BH (60°-80°)	279.0	1.2	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9
2.5°	3131.4	3178.4	3141.6	3080.4	2962.1	2847.9	2701.0	2499.0	2337.9	2317.5	2166.5
5°	4229.0	4224.9	4145.3	4065.8	3941.3	3745.5	3449.7	3074.3	2713.2	2682.6	2344.0
7.5°	4881.8	4887.9	4843.0	4781.8	4659.4	4457.5	4149.4	3696.5	3168.2	3107.0	2586.8
10°	5430.6	5428.5	5395.9	5367.3	5257.2	5122.5	4792.0	4294.3	3657.8	3561.9	2858.1
12.5°	5842.6	5856.9	5873.2	5901.8	5854.9	5722.3	5410.2	4867.5	4153.5	4047.4	3168.2
15°	6169.0	6173.1	6234.3	6344.5	6383.2	6313.9	6030.3	5422.4	4643.1	4551.3	3525.2
17.5°	6267.0	6275.1	6379.2	6581.1	6785.1	6823.9	6609.7	5981.4	5124.6	5026.6	3872.0
20°	6473.0	6491.4	6568.9	6746.4	7003.4	7211.5	7127.9	6546.4	5606.0	5477.5	4226.9
22.5°	7121.7	7131.9	7105.4	7127.9	7260.5	7501.2	7552.2	7093.2	6099.7	5963.0	4610.5
25°	8237.6	8241.7	8056.1	7880.6	7780.7	7825.5	7937.7	7597.1	6589.3	6454.6	4967.5
27.5°	9396.4	9410.6	9188.3	8890.4	8533.4	8329.4	8296.8	8058.1	7083.0	6934.1	5320.4
30°	10487.8	10487.8	10253.2	9890.1	9412.7	9014.9	8780.3	8523.2	7611.3	7448.1	5681.5
32.5°	11469.0	11460.9	11161.0	10767.3	10296.0	9859.5	9365.8	9008.8	8198.9	8017.3	6097.6
35°	12278.9	12258.5	11917.8	11540.4	11036.6	10712.2	10161.4	9531.0	8835.4	8653.8	6526.0
37.5°	12890.9	12868.5	12556.4	12156.5	11689.4	11479.2	11018.2	10157.3	9506.5	9341.3	7001.4
40°	13223.5	13178.6	12962.3	12664.5	12272.8	12089.2	11897.4	10934.5	10296.0	10090.0	7562.4
42.5°	13321.4	13268.3	13125.5	12986.8	12750.2	12605.3	12811.4	11811.8	11163.0	10985.6	8203.0
45°	13031.7	13001.1	12988.9	13088.8	13131.7	13172.5	13680.4	12782.8	12119.8	11985.2	9008.8
47.5°	12334.0	12325.8	12434.0	12850.1	13303.0	13733.5	14625.0	13980.3	13360.1	13215.3	10134.9
50°	11044.7	11128.4	11430.3	12160.6	13066.4	14051.7	15508.3	15640.9	15367.5	15155.4	11603.7
52.5°	9029.2	9190.3	9867.6	10977.4	12278.9	13962.0	15916.3	16971.0	17250.5	17030.2	12656.3
55°	7085.0	7236.0	7839.8	9247.4	10983.5	13278.5	15934.7	17430.0	18040.0	17836.0	13368.3
57.5°	5277.6	5416.3	5965.0	7311.5	9220.9	11934.2	15498.1	17685.0	18976.3	18845.8	14492.4
60°	3449.7	3586.4	4082.1	5259.2	7152.3	9975.7	14423.0	17632.0	20251.4	20239.1	15873.5
62.5°	1913.5	2021.7	2380.7	3298.7	4991.9	7725.6	12733.9	17099.5	21485.6	21563.1	17011.8
65°	979.2	1048.6	1266.9	1813.6	3021.3	5477.5	10512.3	15879.6	22056.8	22252.6	17311.7
67.5°	640.6	663.0	716.0	942.5	1617.7	3445.6	7911.2	13923.2	21253.0	21481.5	16305.9
70°	520.2	538.6	569.2	628.3	834.4	1829.9	5196.0	11120.2	17758.4	17913.5	12984.8
72.5°	381.5	406.0	465.1	503.9	601.8	1003.7	2703.0	7299.2	12195.3	12468.7	8160.1
75°	281.5	295.8	344.8	397.8	491.6	634.4	1034.3	3837.3	6297.6	6138.4	3427.2
77.5°	169.3	179.5	220.3	255.0	350.9	395.8	361.1	1417.8	1915.6	1801.3	828.3
80°	83.6	93.8	144.8	191.8	224.4	159.1	151.0	395.8	426.4	426.4	208.1
82.5°	28.6	36.7	77.5	126.5	110.2	61.2	71.4	102.0	114.2	120.4	61.2
85°	0.0	0.0	18.4	36.7	16.3	8.2	18.4	22.4	28.6	30.6	20.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.1	8.2	8.2
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°	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9
2.5°	2084.9	1989.0	1844.2	1713.6	1613.7	1519.8	1448.4	1391.3	1381.1	1348.5	1352.5
5°	2178.7	2005.3	1738.1	1532.1	1387.2	1289.3	1207.7	1146.5	1120.0	1093.5	1073.1
7.5°	2323.6	2072.7	1697.3	1446.4	1277.1	1126.1	999.6	897.6	848.7	818.1	797.7
10°	2501.1	2166.5	1699.3	1395.4	1144.5	913.9	740.5	628.3	575.3	559.0	556.9
12.5°	2713.2	2284.8	1715.7	1311.7	952.7	679.3	548.8	497.8	481.4	467.2	467.2
15°	2937.6	2417.4	1715.7	1158.7	726.2	530.4	475.3	442.7	422.3	414.1	410.0
17.5°	3174.3	2541.9	1674.9	948.6	556.9	467.2	422.3	391.7	375.4	363.1	359.0
20°	3427.2	2660.2	1572.9	726.2	477.4	418.2	375.4	344.8	328.4	316.2	316.2
22.5°	3684.3	2770.4	1407.6	559.0	422.3	371.3	330.5	301.9	285.6	273.4	273.4
25°	3923.0	2843.8	1195.5	461.0	381.5	330.5	293.8	265.2	246.8	238.7	234.6
27.5°	4145.3	2890.7	960.9	406.0	342.7	295.8	257.0	230.5	216.2	210.1	206.0
30°	4375.9	2903.0	734.4	369.2	310.1	261.1	224.4	204.0	191.8	183.6	183.6
32.5°	4600.3	2888.7	561.0	338.6	281.5	230.5	199.9	181.6	171.4	165.2	163.2
35°	4828.7	2823.4	454.9	312.1	253.0	202.0	177.5	163.2	157.1	148.9	148.9
37.5°	5077.6	2735.7	395.8	285.6	224.4	181.6	159.1	148.9	140.8	134.6	132.6
40°	5387.7	2633.7	363.1	263.2	197.9	163.2	142.8	132.6	126.5	120.4	118.3
42.5°	5754.9	2533.7	346.8	238.7	177.5	144.8	128.5	116.3	110.2	102.0	100.0
45°	6275.1	2511.3	328.4	212.2	159.1	130.6	112.2	100.0	91.8	85.7	83.6
47.5°	7111.5	2574.5	297.8	183.6	140.8	114.2	95.9	85.7	75.5	69.4	65.3
50°	7941.8	2558.2	267.2	159.1	124.4	97.9	81.6	71.4	61.2	55.1	53.0
52.5°	8394.7	2480.7	238.7	140.8	108.1	83.6	69.4	57.1	51.0	44.9	42.8
55°	8804.8	2450.1	210.1	122.4	91.8	73.4	57.1	46.9	42.8	36.7	34.7
57.5°	9608.5	2521.5	185.6	106.1	79.6	63.2	49.0	38.8	34.7	28.6	26.5
60°	10449.0	2529.6	159.1	91.8	69.4	53.0	38.8	30.6	26.5	20.4	18.4
62.5°	10887.6	2323.6	130.6	77.5	57.1	44.9	32.6	24.5	20.4	12.2	12.2
65°	10520.4	1878.9	110.2	63.2	44.9	34.7	24.5	18.4	12.2	6.1	2.0
67.5°	9310.7	1336.2	91.8	51.0	32.6	24.5	18.4	12.2	2.0	0.0	0.0
70°	6817.8	763.0	71.4	36.7	24.5	16.3	12.2	6.1	0.0	0.0	0.0
72.5°	4190.2	408.0	53.0	24.5	18.4	12.2	10.2	4.1	0.0	0.0	0.0
75°	1589.2	195.8	32.6	16.3	14.3	10.2	6.1	2.0	0.0	0.0	0.0
77.5°	430.4	95.9	18.4	12.2	10.2	6.1	4.1	0.0	0.0	0.0	0.0
80°	112.2	44.9	12.2	8.2	6.1	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	38.8	20.4	6.1	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	8.2	4.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	2.0	2.0	2.0	2.0	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)