

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: P633053

Luminaire Tested: GWS-SA2D-830-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-830-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

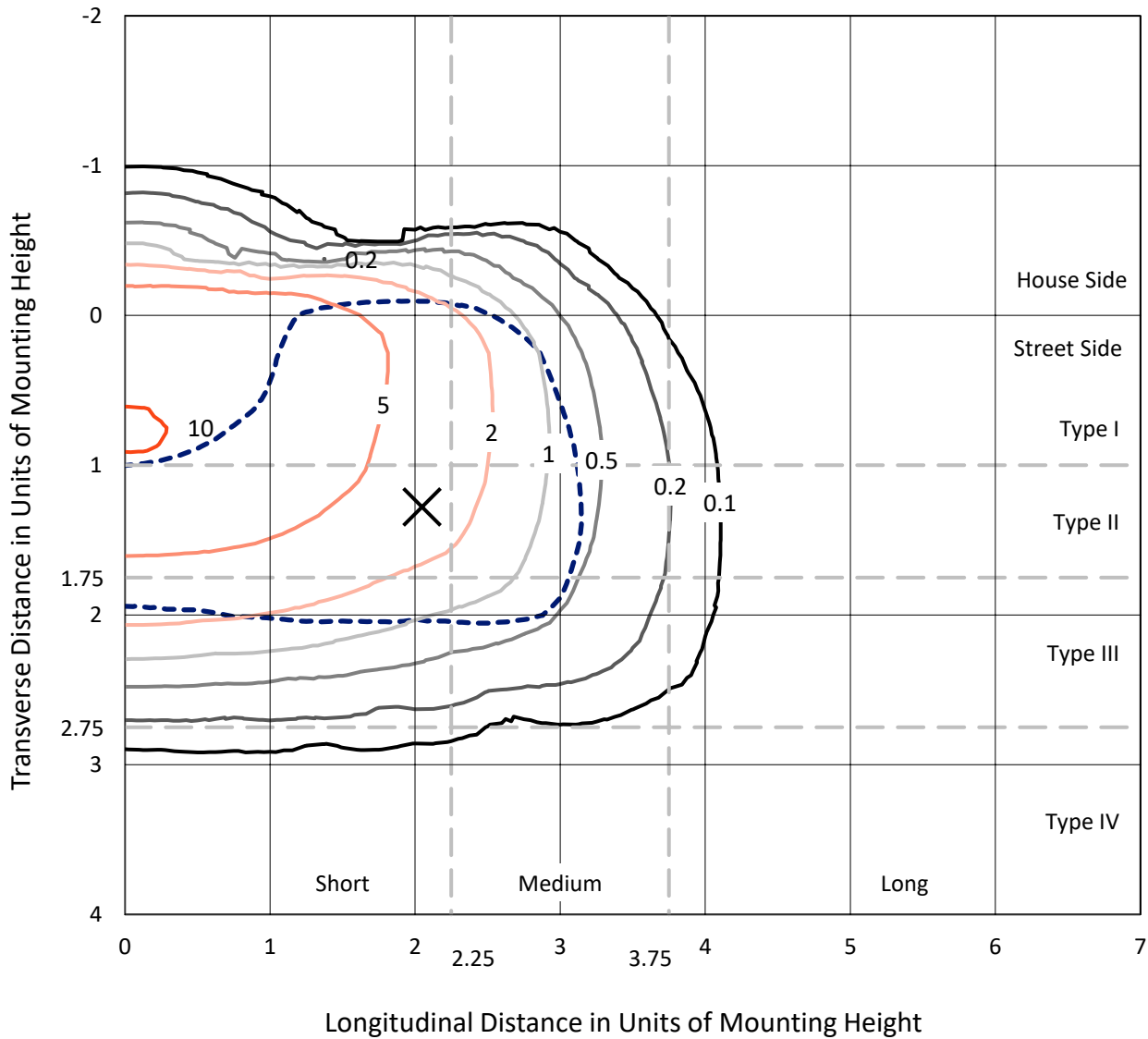
Lumens per Lamp: N/A  
Luminaire Lumens: 6809.5 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

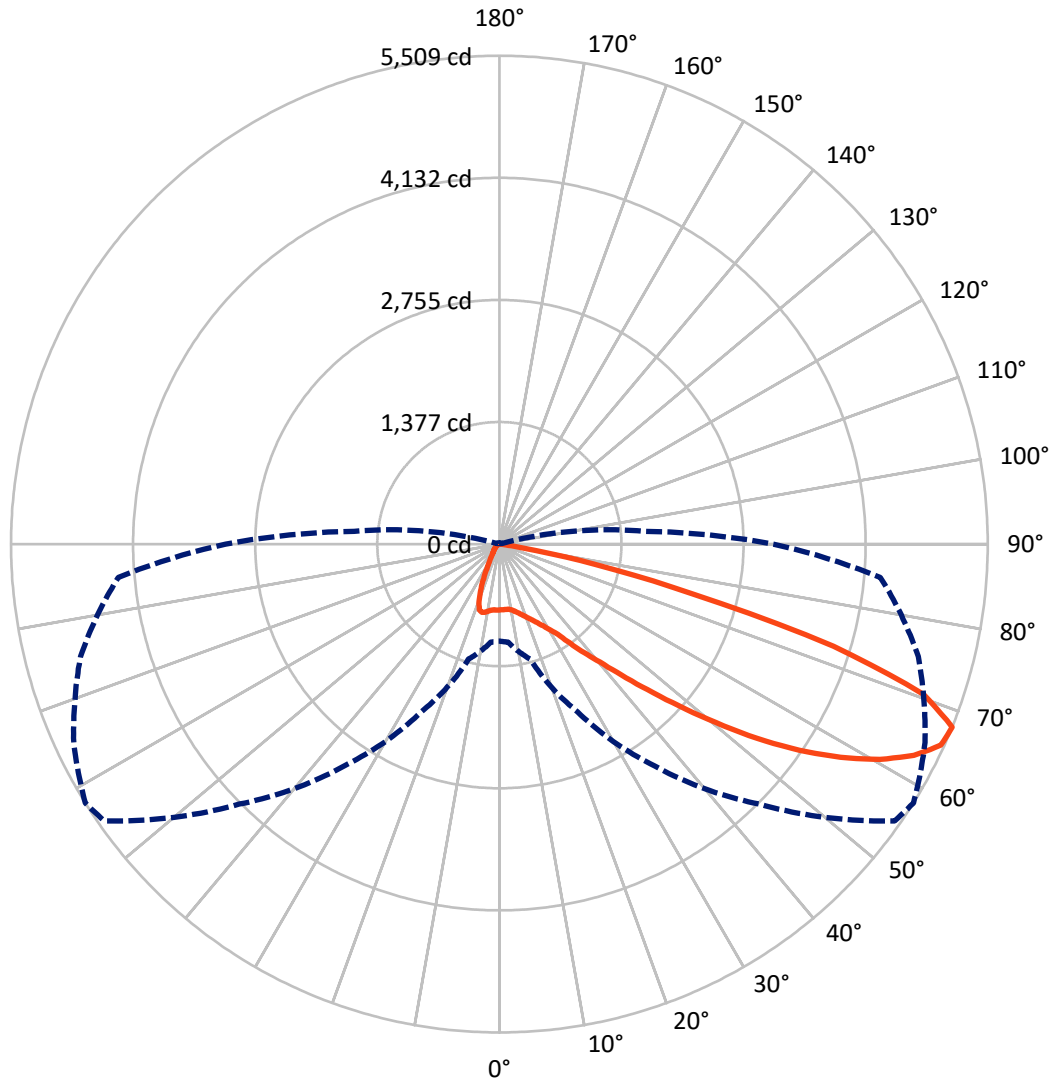
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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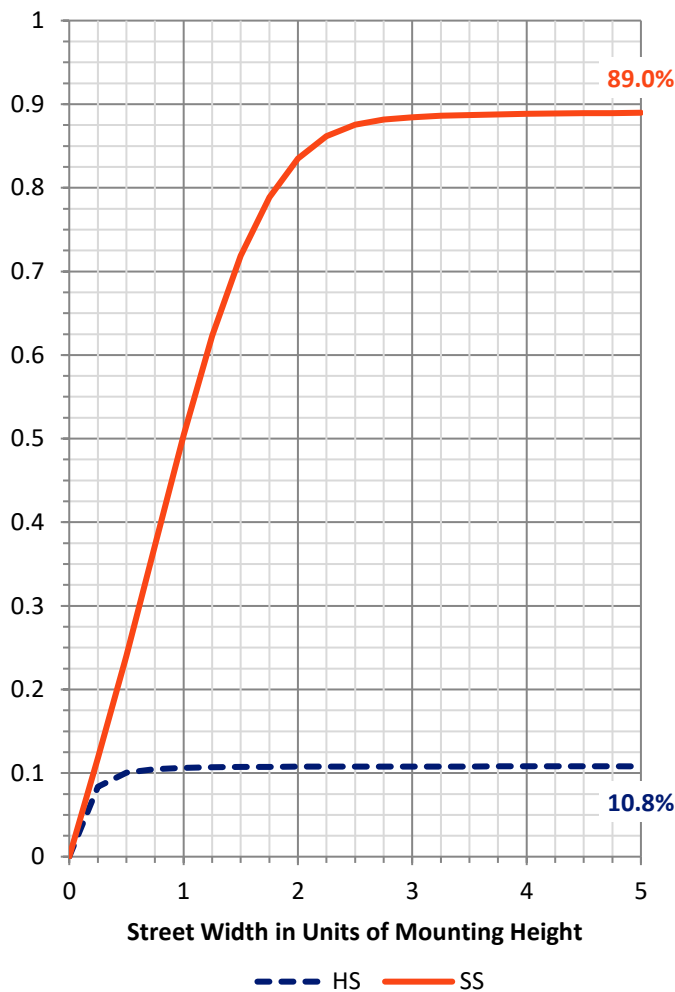
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	742.9	0.0	742.9
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	6066.6	0.0	6066.6
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	6809.5	0.0	6809.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	1.0
10°-20°	195.7	2.9
20°-30°	341.6	5.0
30°-40°	610.1	9.0
40°-50°	1115.1	16.4
50°-60°	1854.6	27.2
60°-70°	2014.4	29.6
70°-80°	591.4	8.7
80°-90°	16.8	0.2
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°	6809.5	100.0
0°-180°	6809.5	100.0

**Coefficient of Utilization**

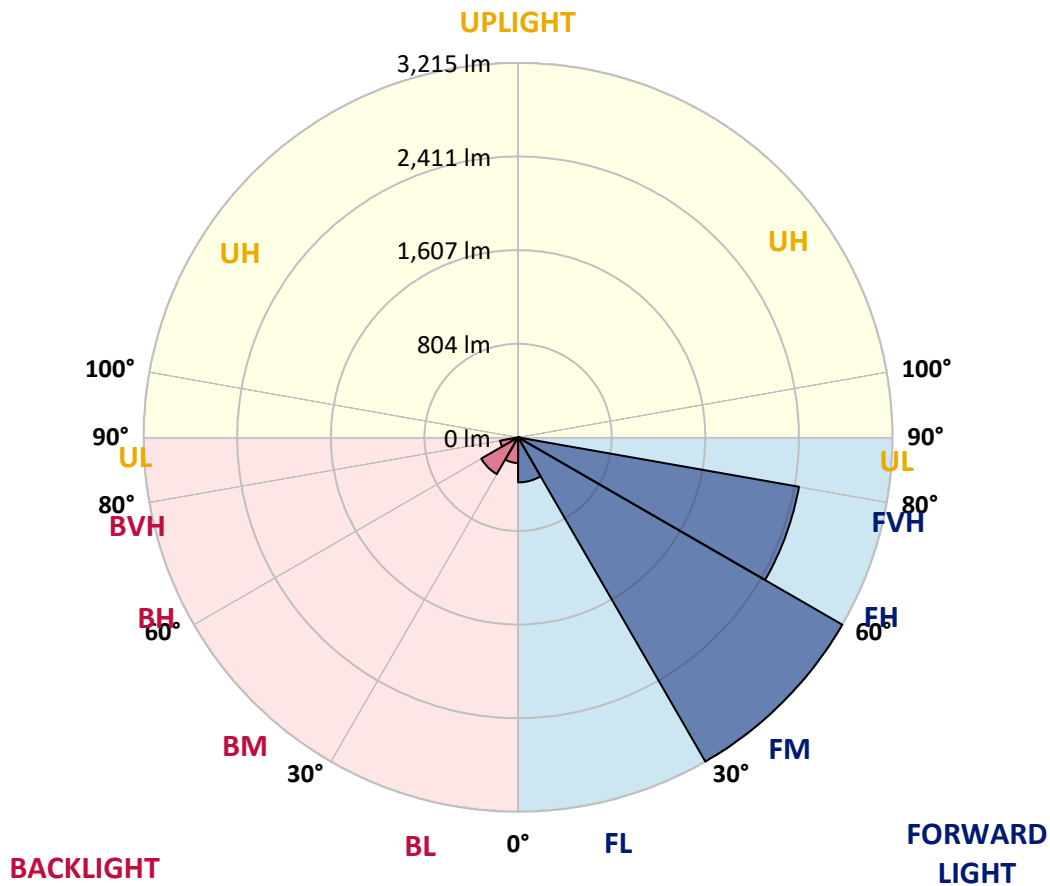


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.7	5.7			
FM (30°-60°)	3214.9	47.2			
FH (60°-80°)	2449.0	36.0			G2/5000
FVH (80°-90°)	16.0	0.2			G1/100
BL (0°-30°)	220.4	3.2	B1/500		
BM (30°-60°)	364.9	5.4	B1/1000		
BH (60°-80°)	156.8	2.3	B1/500		G1/500
BVH (80°-90°)	0.8	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-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0
2.5°	728.1	726.7	726.7	732.1	732.7	735.4	741.4	742.0	745.4	744.0	739.4
5°	690.2	690.8	694.8	704.1	712.1	722.1	736.7	740.0	747.4	751.3	748.7
7.5°	654.9	655.6	661.6	676.2	691.5	711.4	735.4	742.0	756.7	767.3	768.0
10°	641.6	641.0	647.0	663.6	683.5	711.4	746.0	754.7	776.6	795.2	798.5
12.5°	645.6	645.0	650.9	666.2	688.2	723.4	764.6	776.6	804.5	833.1	839.1
15°	661.6	660.9	664.9	677.5	701.5	738.0	788.6	806.5	841.8	876.3	885.7
17.5°	709.5	706.1	702.1	703.5	717.4	755.3	819.2	841.1	885.0	926.2	934.2
20°	794.6	785.9	775.3	761.3	754.7	780.6	854.4	879.7	932.9	980.1	981.4
22.5°	922.9	919.6	895.0	854.4	825.8	826.5	895.6	924.9	990.0	1041.9	1034.6
25°	1101.7	1099.8	1061.9	995.4	920.9	895.6	948.2	978.1	1057.9	1113.0	1089.8
27.5°	1323.8	1309.9	1265.3	1175.5	1064.5	985.4	1014.6	1041.2	1129.7	1181.5	1137.6
30°	1517.3	1518.0	1476.1	1382.3	1257.3	1120.4	1095.8	1119.0	1195.5	1250.0	1196.8
32.5°	1703.5	1709.5	1663.6	1579.1	1442.2	1296.6	1212.1	1216.1	1279.9	1339.1	1274.6
35°	1876.4	1881.0	1849.1	1777.3	1649.6	1480.7	1374.4	1372.4	1406.9	1467.4	1383.0
37.5°	2069.8	2074.5	2043.2	1978.8	1859.1	1691.5	1558.5	1555.9	1569.8	1619.0	1522.6
40°	2276.0	2284.6	2250.0	2195.5	2081.1	1939.5	1772.6	1748.7	1734.7	1792.6	1703.5
42.5°	2484.7	2498.0	2486.1	2431.6	2333.8	2216.8	2050.6	2013.3	1983.4	2055.9	1961.5
45°	2744.1	2760.0	2754.7	2712.8	2637.0	2541.9	2385.0	2341.8	2327.8	2395.0	2282.6
47.5°	2993.4	3010.7	3030.0	3020.7	2966.8	2922.9	2748.7	2724.1	2720.1	2791.9	2617.7
50°	3178.9	3194.9	3268.7	3321.9	3358.4	3349.1	3198.2	3161.6	3155.6	3201.5	2971.5
52.5°	3311.9	3327.2	3428.9	3595.1	3729.4	3802.6	3650.3	3642.3	3609.8	3593.8	3302.6
55°	3414.9	3436.2	3543.3	3794.6	4065.2	4227.5	4132.4	4103.8	4020.0	3928.2	3609.8
57.5°	3435.6	3444.2	3595.1	3934.2	4325.9	4588.5	4588.5	4538.6	4377.1	4250.1	3964.8
60°	3250.7	3277.3	3481.4	3922.9	4437.6	4824.5	4966.8	4932.3	4714.2	4557.9	4306.6
62.5°	2840.5	2870.4	3119.1	3652.3	4325.9	4873.1	5253.4	5248.1	5002.1	4812.6	4589.8
65°	2178.2	2200.2	2416.9	3055.2	3853.8	4686.2	5458.2	5472.8	5229.5	4980.8	4687.6
67.5°	1094.4	1109.7	1343.8	2087.1	3054.6	4148.3	5444.2	5509.4	5298.6	4891.7	4314.6
70°	382.3	397.6	508.0	895.6	1859.1	3167.6	4973.5	5079.9	4892.4	4175.6	3182.9
72.5°	131.0	138.3	210.8	332.5	723.4	1877.7	3782.0	3942.2	3606.4	2803.2	1829.1
75°	74.5	79.1	113.0	180.2	303.2	617.7	2145.6	2244.0	2102.4	1527.9	752.7
77.5°	50.5	54.5	70.5	102.4	167.6	198.8	875.0	1101.7	960.8	498.7	192.2
80°	29.9	32.6	43.2	60.5	85.8	77.1	187.5	249.3	321.1	148.9	57.8
82.5°	14.0	16.0	27.9	39.9	43.2	32.6	55.2	67.2	90.4	73.1	23.9
85°	0.0	0.0	9.3	16.6	16.0	9.3	15.3	16.6	24.6	36.6	9.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	1.3	2.0	4.0	7.3	4.0
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°	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0
2.5°	744.7	740.0	745.4	742.7	745.4	744.7	739.4	736.0	736.0	730.1	728.1
5°	754.0	749.3	750.7	744.7	743.4	740.0	733.4	730.7	730.7	724.7	722.7
7.5°	774.6	767.3	766.0	754.0	748.7	739.4	727.4	722.7	722.1	716.1	714.1
10°	807.2	798.5	792.6	777.3	762.0	743.4	718.1	696.8	684.9	668.9	667.6
12.5°	847.1	836.4	827.1	803.9	778.6	736.7	662.2	584.4	536.6	498.7	501.3
15°	891.6	881.7	867.0	831.8	779.9	670.9	515.3	395.6	337.1	305.9	304.5
17.5°	940.2	925.5	901.6	853.7	738.0	512.6	335.1	236.7	206.1	195.5	192.8
20°	985.4	967.4	937.5	858.4	617.0	347.1	209.4	183.5	178.2	174.9	174.9
22.5°	1033.3	1010.7	966.1	822.5	458.8	222.1	178.2	172.2	168.2	163.6	162.9
25°	1081.8	1052.5	992.0	728.7	300.5	174.9	166.9	160.2	152.9	145.6	143.6
27.5°	1123.0	1085.1	1012.0	589.1	192.8	157.6	152.3	141.0	131.0	123.0	121.7
30°	1172.2	1123.7	1020.6	430.9	151.6	139.0	131.0	119.0	107.0	99.1	96.4
32.5°	1238.0	1184.9	1007.3	280.6	134.3	122.3	109.7	95.7	83.8	75.1	73.8
35°	1340.4	1277.3	946.2	178.9	121.7	105.7	90.4	75.8	65.8	59.2	57.8
37.5°	1465.4	1406.9	845.8	134.3	109.0	91.8	73.8	59.8	52.5	47.9	46.5
40°	1651.0	1569.2	721.4	117.7	96.4	77.8	60.5	49.2	43.9	39.9	38.6
42.5°	1891.6	1760.7	578.5	107.0	84.4	65.2	49.2	40.6	35.9	33.2	32.6
45°	2172.9	1947.5	427.5	96.4	73.1	53.9	40.6	33.2	29.9	27.9	27.3
47.5°	2460.8	2111.1	295.2	85.1	62.5	44.5	33.9	28.6	25.9	23.3	22.6
50°	2768.0	2249.4	201.5	73.8	53.2	36.6	29.3	25.9	22.6	20.6	19.9
52.5°	2993.4	2300.6	140.3	63.8	45.2	31.3	25.9	23.3	20.6	18.0	17.3
55°	3201.5	2299.2	106.4	53.9	38.6	27.3	23.3	20.6	18.0	16.0	15.3
57.5°	3409.0	2281.3	83.8	45.9	33.2	24.6	20.6	18.0	16.6	14.0	13.3
60°	3543.3	2213.5	65.2	38.6	28.6	21.3	18.0	16.0	14.0	12.0	11.3
62.5°	3614.4	2119.0	49.9	30.6	23.3	18.6	16.0	14.0	12.0	10.0	9.3
65°	3518.0	1951.5	39.2	23.9	18.0	16.0	13.3	11.3	9.3	7.3	6.6
67.5°	3090.5	1645.6	30.6	19.3	14.0	12.0	11.3	9.3	6.6	5.3	4.7
70°	2184.2	1127.0	23.9	14.6	10.6	9.3	8.6	7.3	5.3	4.0	3.3
72.5°	1198.8	568.5	17.3	10.6	8.0	7.3	6.6	6.0	4.7	3.3	3.3
75°	461.4	156.3	12.6	7.3	5.3	5.3	4.7	4.7	4.0	2.7	2.7
77.5°	120.3	46.5	8.0	4.7	3.3	3.3	3.3	2.7	2.7	2.0	2.0
80°	38.6	15.3	4.7	3.3	2.7	2.0	2.0	1.3	2.0	1.3	1.3
82.5°	12.6	5.3	2.7	2.7	2.0	1.3	1.3	0.7	0.7	0.0	0.0
85°	4.7	2.7	2.0	1.3	1.3	1.3	0.7	0.0	0.0	0.0	0.0
87.5°	2.7	1.3	1.3	1.3	1.3	0.7	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)