

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: P628647

Luminaire Tested: GWS-SA1A-722-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628647  
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-SA1A-722-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

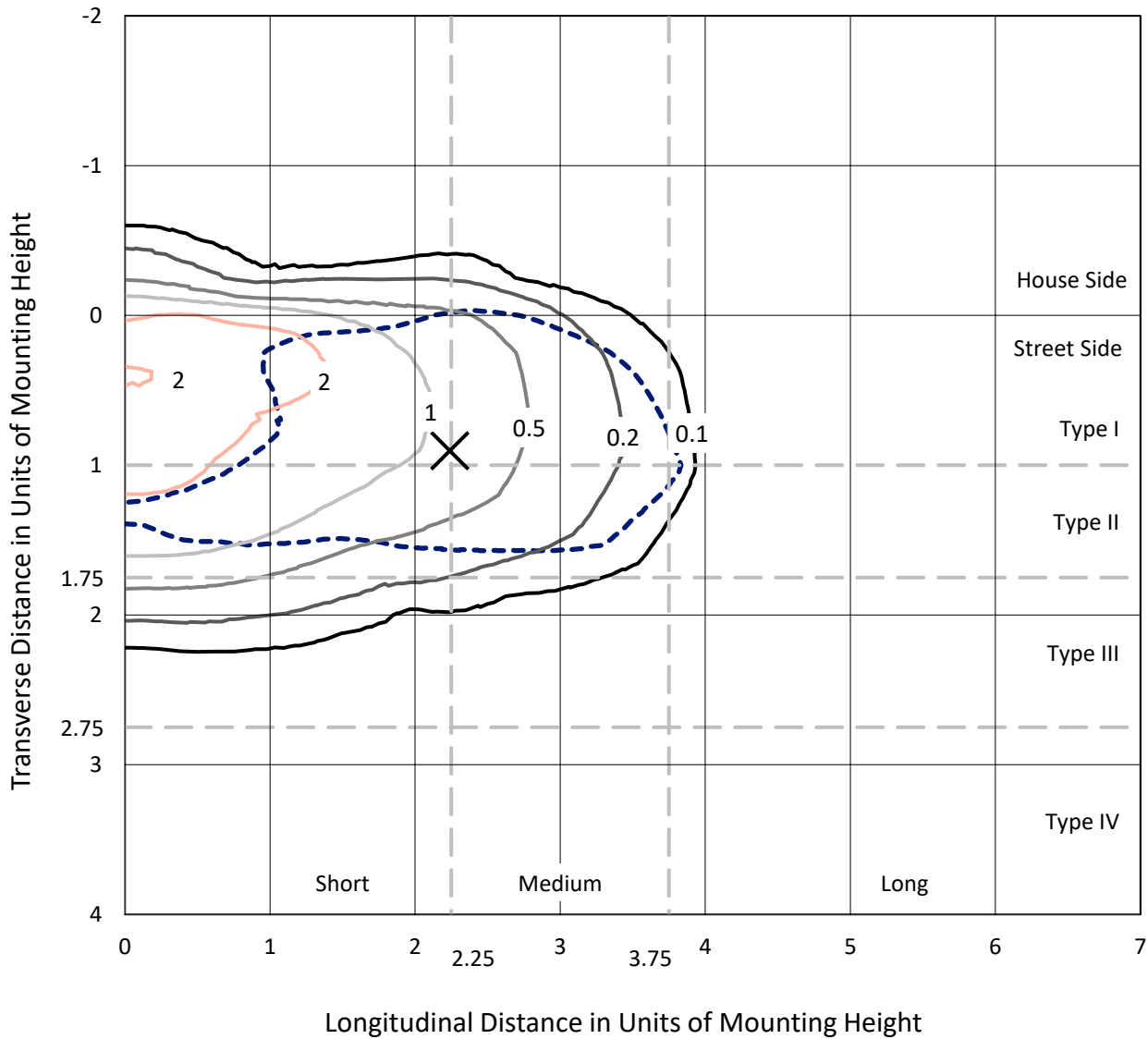
Lumens per Lamp: N/A  
Luminaire Lumens: 1569.2 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

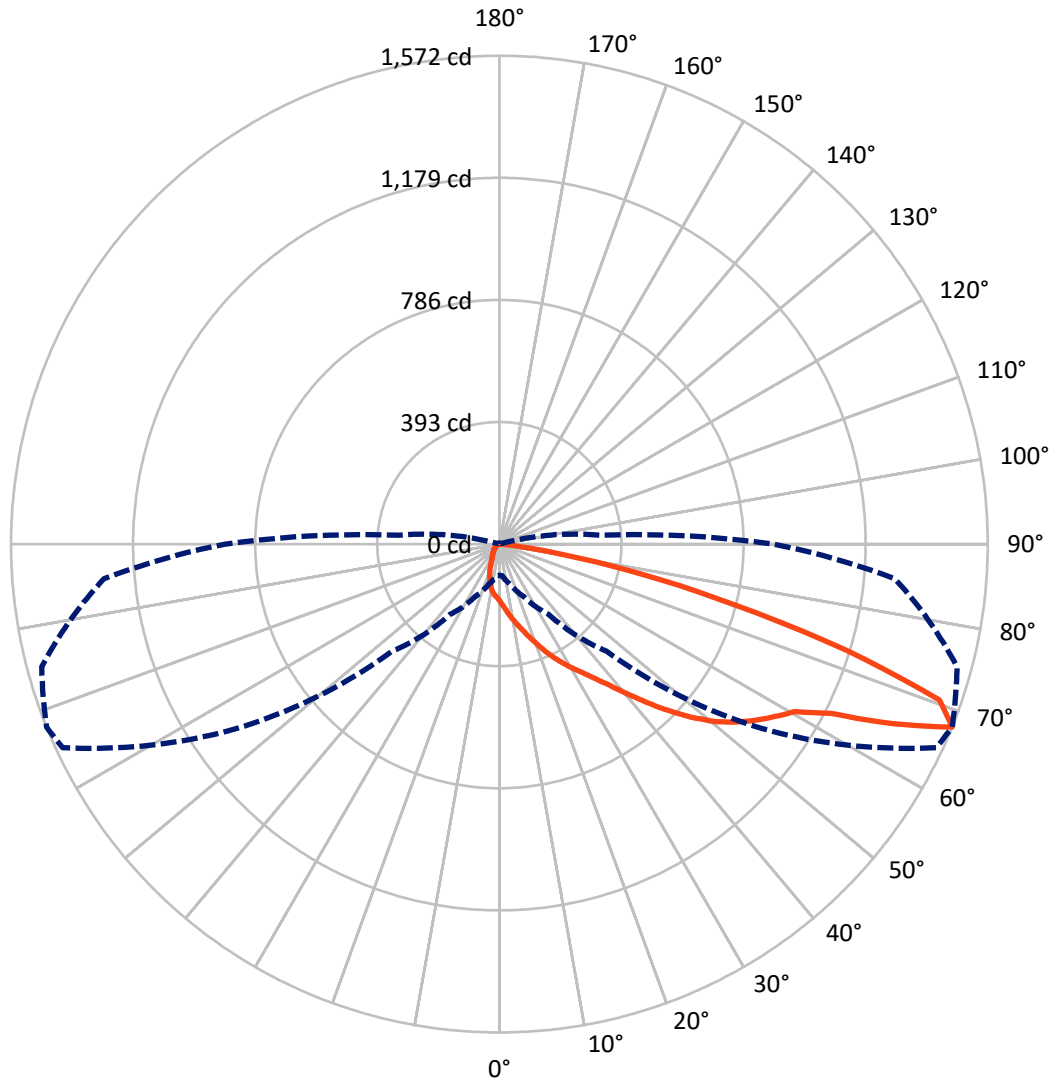
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 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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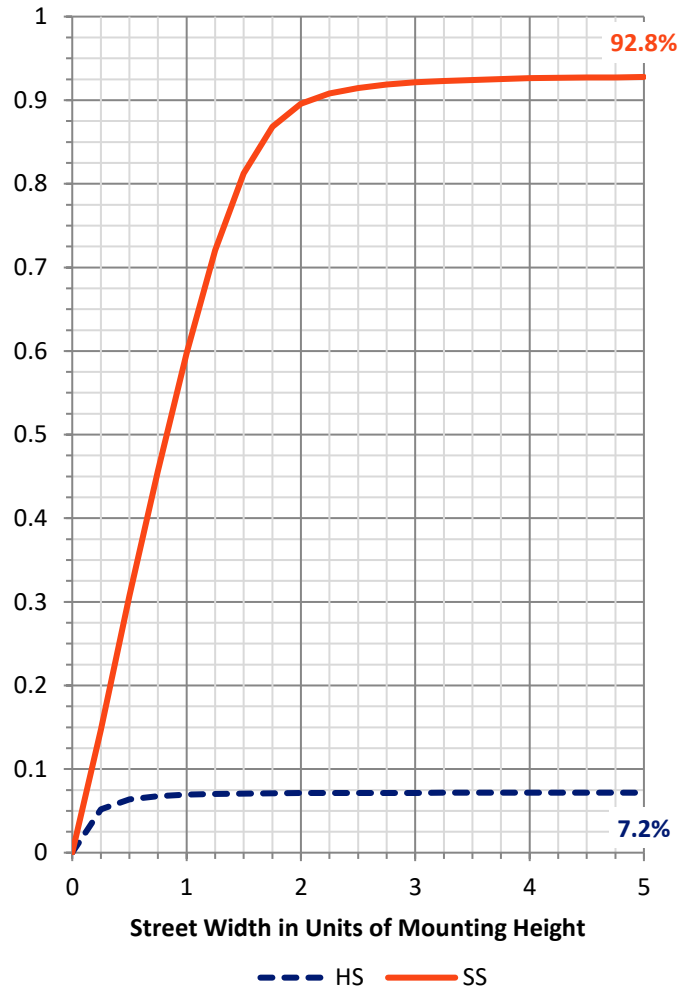
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	113.3	0.0	113.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	1455.8	0.0	1455.8
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	1569.2	0.0	1569.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.8	1.1
10°-20°	51.1	3.3
20°-30°	87.9	5.6
30°-40°	152.8	9.7
40°-50°	266.6	17.0
50°-60°	402.2	25.6
60°-70°	403.3	25.7
70°-80°	177.9	11.3
80°-90°	9.5	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°	1569.2	100.0
0°-180°	1569.2	100.0

**Coefficient of Utilization**



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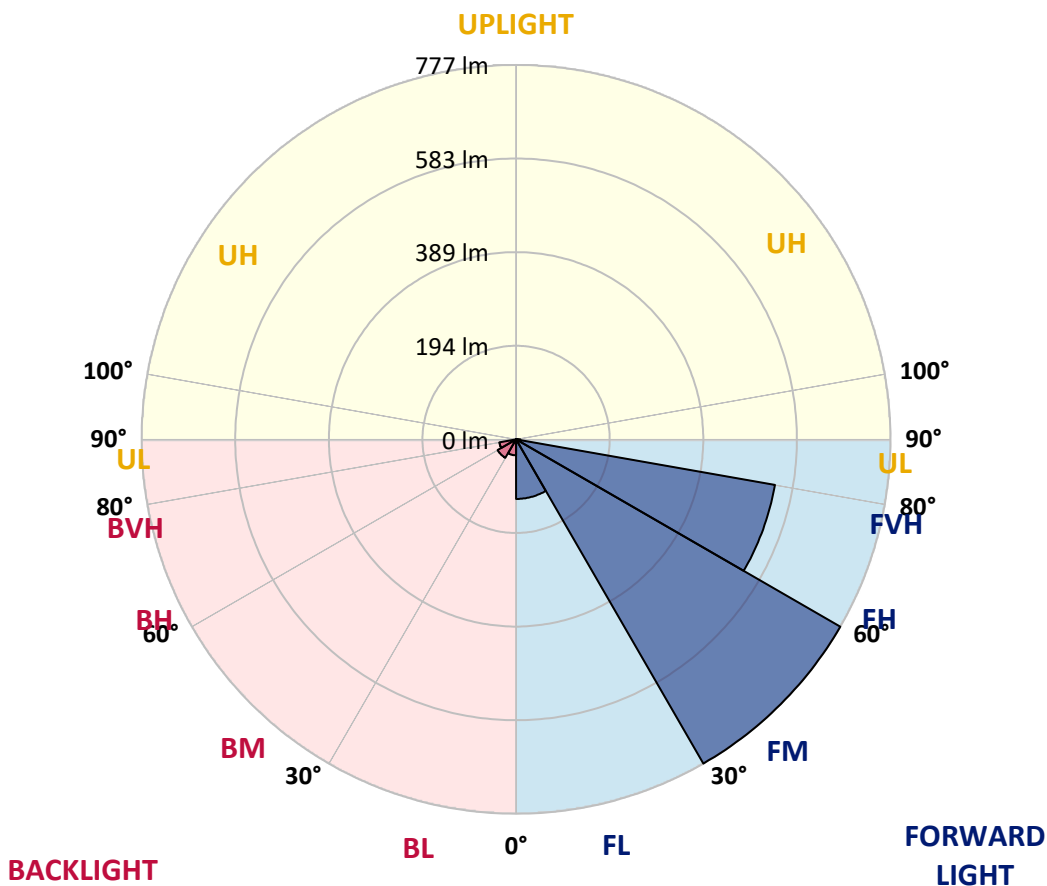
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	123.7	7.9			
FM (30°-60°)	777.3	49.5			
FH (60°-80°)	545.8	34.8			G0/660
FVH (80°-90°)	9.0	0.6			G0/10
BL (0°-30°)	33.1	2.1	B0/110		
BM (30°-60°)	44.3	2.8	B0/220		
BH (60°-80°)	35.4	2.3	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6
2.5°	212.6	214.0	212.6	212.9	209.0	207.2	203.3	197.9	196.6	193.1	187.9
5°	238.6	239.8	238.5	238.2	233.7	230.4	223.9	214.6	211.9	205.1	194.8
7.5°	252.7	253.5	253.9	254.7	253.0	250.3	244.5	232.9	230.1	219.1	204.5
10°	254.2	254.8	257.1	261.6	264.9	266.5	263.2	252.6	248.1	237.4	216.5
12.5°	250.0	250.9	254.5	262.0	271.2	279.6	281.7	272.4	268.3	254.7	230.7
15°	244.5	245.2	250.2	260.4	274.2	289.7	298.4	294.3	289.8	275.6	246.3
17.5°	235.9	237.0	243.9	257.7	275.6	297.6	316.4	317.8	314.6	299.1	263.5
20°	231.1	231.9	238.0	252.3	274.7	303.5	333.2	346.0	342.5	326.3	283.4
22.5°	235.2	235.8	239.8	250.9	271.7	306.8	348.8	374.2	372.3	355.4	304.2
25°	256.5	258.4	256.0	258.0	273.0	308.6	361.5	402.4	402.9	385.9	325.9
27.5°	299.7	297.2	291.5	281.7	283.5	313.4	372.3	429.0	432.9	415.7	345.1
30°	343.7	342.2	338.8	323.6	311.0	324.1	381.4	456.2	462.4	444.9	362.2
32.5°	393.1	394.6	388.5	370.3	348.8	345.7	390.9	482.0	493.6	478.1	382.3
35°	452.2	452.6	440.4	420.3	396.0	381.4	407.9	510.6	531.9	520.5	409.2
37.5°	509.7	512.4	505.8	474.1	452.5	425.9	435.9	547.2	577.2	572.7	443.0
40°	560.6	564.8	562.7	532.0	503.7	481.3	479.5	590.2	632.1	637.2	487.6
42.5°	601.1	603.8	605.5	583.7	558.6	546.0	533.2	640.0	696.8	717.6	542.3
45°	643.9	644.8	648.3	633.6	611.6	612.7	596.8	700.5	765.0	806.8	605.0
47.5°	698.4	701.4	699.8	684.3	664.5	676.4	662.4	762.8	832.2	902.1	669.3
50°	764.8	768.0	766.5	748.4	726.4	731.3	722.6	823.4	897.1	991.9	722.8
52.5°	799.0	801.6	820.2	828.3	816.8	785.2	774.0	889.9	951.9	1065.7	771.9
55°	782.5	784.3	824.9	859.1	901.5	869.9	825.6	941.2	1000.3	1123.4	808.4
57.5°	714.0	723.8	778.9	836.9	925.9	953.6	909.4	997.1	1046.8	1163.5	844.2
60°	573.6	573.2	652.2	756.2	878.2	976.5	1027.7	1072.6	1093.5	1194.3	892.3
62.5°	317.0	319.9	425.0	562.1	745.4	917.1	1116.5	1203.1	1200.0	1248.0	967.5
65°	157.8	163.5	220.6	322.0	496.0	757.9	1131.8	1402.3	1393.3	1374.6	1123.0
67.5°	100.2	102.4	133.9	187.1	275.7	487.1	1036.5	1550.8	1571.7	1524.8	1277.2
70°	64.9	68.6	93.1	127.9	166.4	251.1	759.2	1454.5	1502.4	1508.3	1181.1
72.5°	35.3	38.0	59.5	91.3	120.1	125.5	426.5	1091.6	1168.6	1279.4	924.0
75°	20.1	22.1	32.6	62.0	88.1	76.4	189.1	730.7	779.8	914.4	662.1
77.5°	12.2	13.8	18.3	30.2	55.3	51.1	71.5	444.8	476.0	545.6	347.5
80°	5.6	6.6	11.6	16.7	30.2	24.2	27.3	207.4	214.1	223.9	115.0
82.5°	2.6	3.0	5.3	9.9	17.1	14.0	10.5	47.9	67.4	63.8	29.3
85°	0.3	0.3	2.0	4.1	4.8	3.6	4.4	10.8	13.7	19.2	8.4
87.5°	0.0	0.0	0.2	0.2	0.3	0.5	0.9	1.4	2.0	3.2	2.1
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°	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6
2.5°	185.5	181.3	177.5	171.9	168.2	164.0	161.1	157.7	156.3	155.3	153.8
5°	189.7	182.9	173.7	163.5	155.1	147.2	139.8	135.0	130.8	130.2	128.1
7.5°	196.6	186.5	171.0	154.4	140.1	126.9	116.5	108.1	103.9	102.6	100.2
10°	205.7	191.9	167.0	141.5	120.9	105.1	93.4	83.9	77.3	74.9	73.1
12.5°	215.9	196.9	160.5	125.5	102.1	84.1	69.2	59.2	55.0	53.5	52.1
15°	227.7	201.5	150.3	109.6	83.8	61.9	51.4	47.0	45.2	44.7	44.3
17.5°	238.9	204.5	138.2	93.1	64.4	48.1	43.1	41.4	41.0	40.5	40.2
20°	251.7	206.6	123.9	77.5	50.0	40.7	38.3	37.1	36.2	35.3	35.1
22.5°	264.7	206.6	108.4	62.2	41.9	36.5	33.8	31.5	29.9	29.0	28.7
25°	277.2	203.8	93.1	49.7	36.9	32.4	29.0	26.4	24.2	23.1	22.8
27.5°	286.1	196.4	79.7	42.0	33.5	28.8	24.6	21.8	20.0	18.9	18.8
30°	291.6	185.5	67.4	37.5	30.5	25.1	20.9	18.5	17.1	16.4	16.1
32.5°	295.8	171.9	56.5	34.4	27.6	21.8	18.2	16.2	15.0	14.4	14.3
35°	304.2	159.2	48.4	31.5	24.6	19.1	15.9	14.4	13.5	12.8	12.6
37.5°	316.0	148.5	41.9	29.0	21.8	17.0	14.4	13.1	12.3	11.6	11.4
40°	333.2	141.8	37.1	26.4	19.2	15.3	13.2	12.0	11.0	10.2	10.1
42.5°	359.8	138.6	33.9	23.9	17.0	13.8	12.2	10.7	9.6	8.9	8.7
45°	391.5	140.3	31.2	21.3	15.5	12.8	10.8	9.3	8.3	7.5	7.4
47.5°	425.4	146.1	29.0	18.9	14.0	11.7	9.6	8.0	7.1	6.3	6.2
50°	460.9	155.7	27.0	16.7	12.8	10.5	8.3	6.9	6.0	5.4	5.3
52.5°	491.6	168.8	25.1	15.0	11.7	9.3	7.2	6.0	5.1	4.5	4.4
55°	521.1	181.1	23.6	13.5	10.5	8.1	6.3	5.1	4.4	3.8	3.6
57.5°	553.1	194.2	21.8	12.2	9.5	7.2	5.6	4.4	3.8	3.2	3.0
60°	599.6	213.5	19.1	11.1	8.3	6.3	4.8	3.9	3.3	2.6	2.4
62.5°	666.7	248.8	16.1	9.6	7.1	5.4	4.1	3.3	2.7	2.1	1.8
65°	792.3	308.9	13.2	8.0	5.7	4.5	3.5	2.7	2.1	1.5	1.4
67.5°	882.7	324.5	10.7	6.5	4.7	3.5	2.9	2.1	1.5	1.1	0.9
70°	771.7	233.1	8.3	5.3	3.9	2.7	2.3	1.7	1.1	0.8	0.6
72.5°	581.4	152.3	6.2	4.1	3.0	2.3	1.7	1.4	0.9	0.6	0.5
75°	409.8	88.0	4.5	3.0	2.1	1.7	1.4	1.1	0.8	0.5	0.5
77.5°	210.1	36.3	3.2	2.1	1.5	1.1	0.9	0.6	0.6	0.5	0.3
80°	63.8	12.0	1.8	1.4	1.1	0.8	0.5	0.5	0.5	0.3	0.2
82.5°	14.6	3.9	1.1	1.1	0.8	0.6	0.5	0.2	0.2	0.0	0.0
85°	3.8	1.2	0.9	0.8	0.8	0.6	0.3	0.2	0.0	0.0	0.0
87.5°	1.4	0.8	0.8	0.8	0.6	0.5	0.3	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)