

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: P628786

Luminaire Tested: GWS-SA1A-735-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-735-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

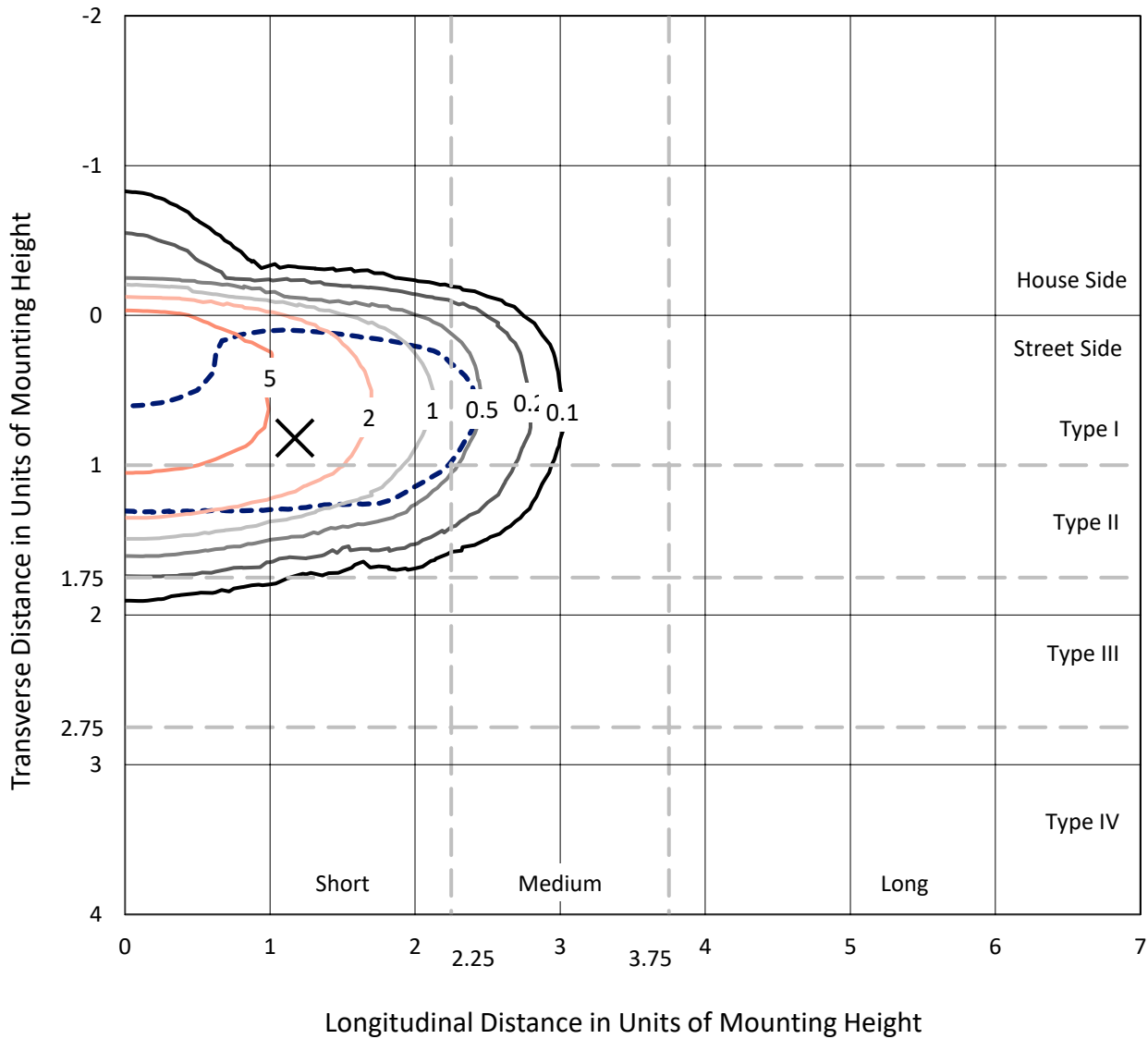
Lumens per Lamp: N/A  
Luminaire Lumens: 2352.1 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

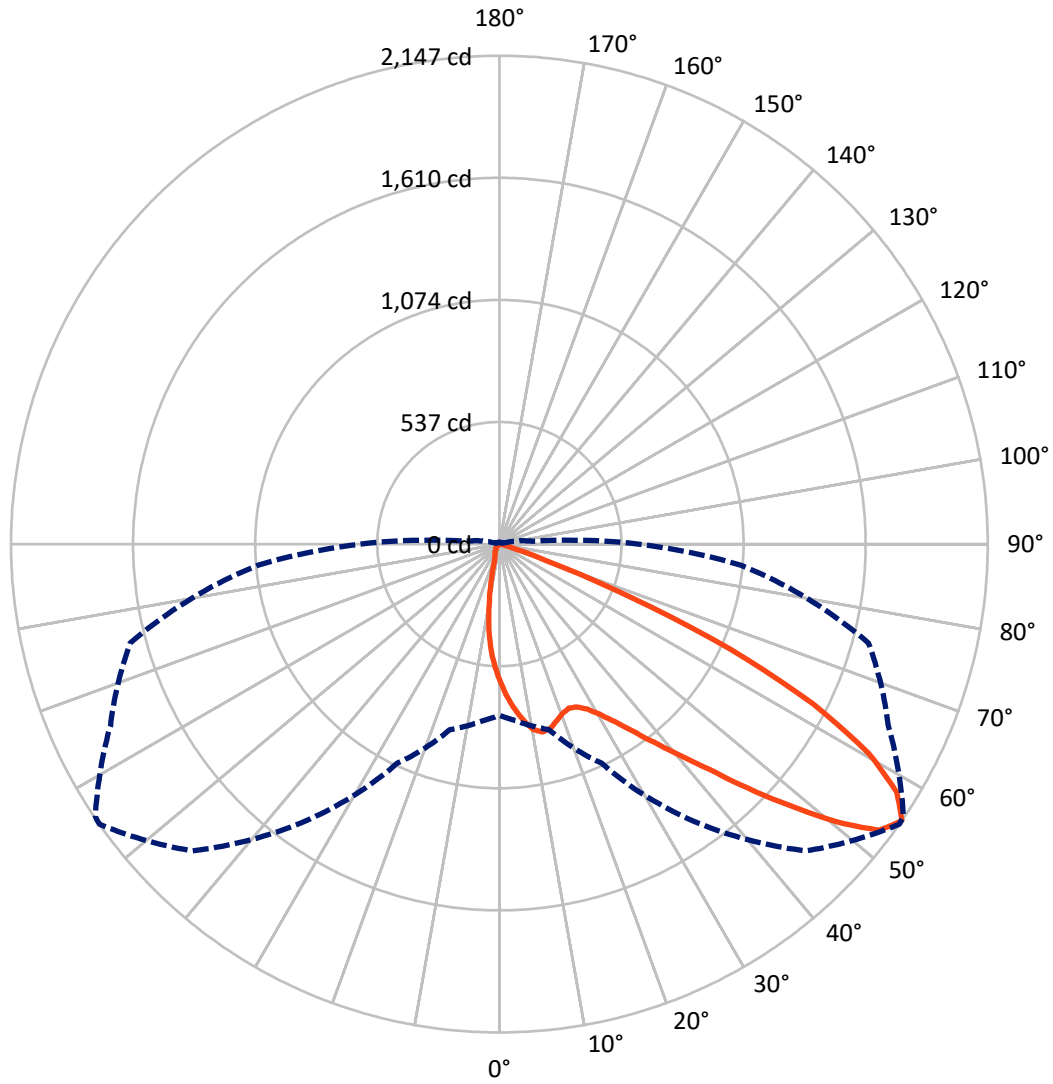
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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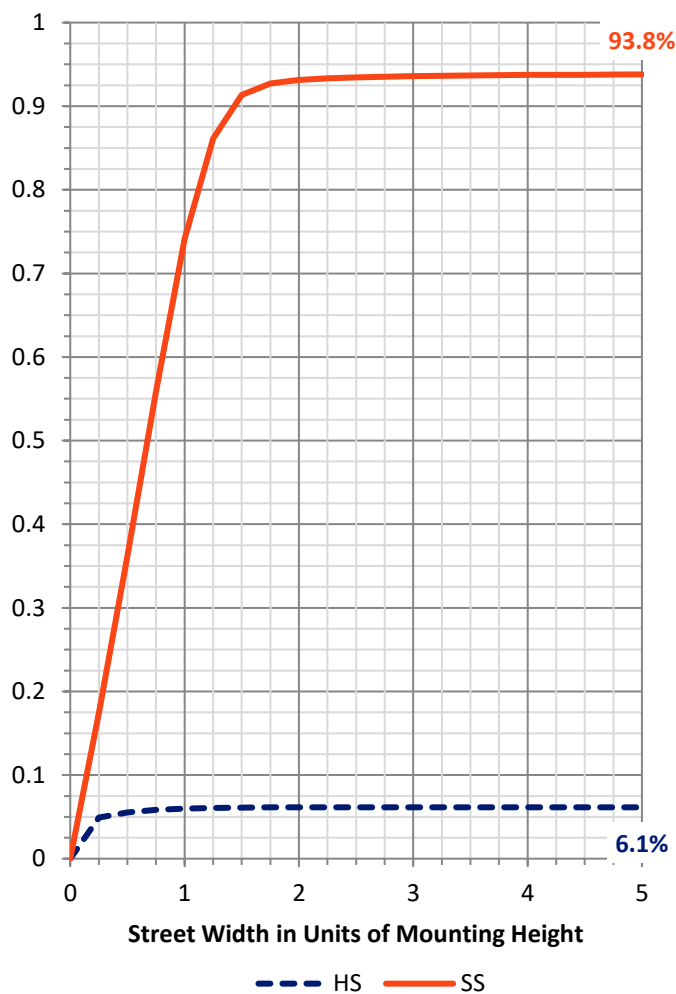
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	145.1	0.0	145.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	2207.0	0.0	2207.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	2352.1	0.0	2352.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.7	2.3
10°-20°	129.5	5.5
20°-30°	215.6	9.2
30°-40°	367.4	15.6
40°-50°	599.8	25.5
50°-60°	627.9	26.7
60°-70°	316.7	13.5
70°-80°	40.0	1.7
80°-90°	1.5	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°	2352.1	100.0
0°-180°	2352.1	100.0

**Coefficient of Utilization**



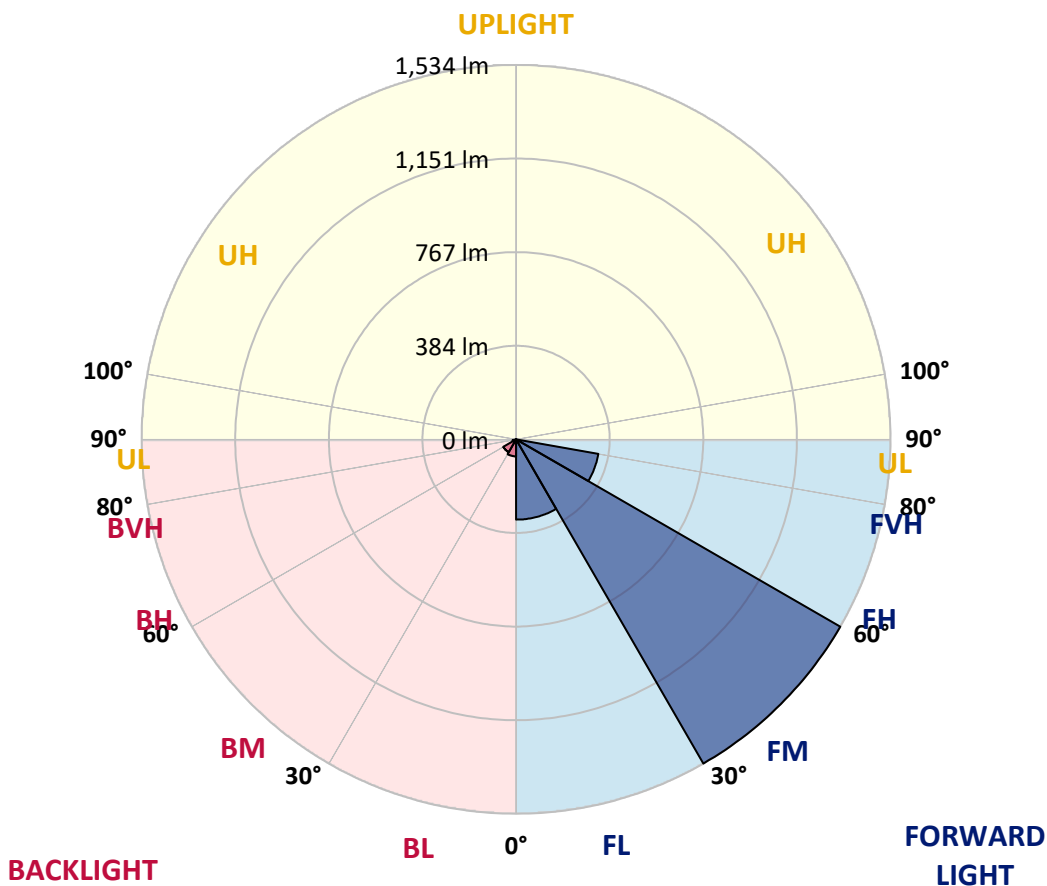
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	329.0	14.0			
FM (30°-60°)	1534.4	65.2			
FH (60°-80°)	342.2	14.5			G0/660
FVH (80°-90°)	1.4	0.1			G0/10
BL (0°-30°)	69.8	3.0	B0/110		
BM (30°-60°)	60.7	2.6	B0/220		
BH (60°-80°)	14.6	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	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°	56°	65°	75°	85°
0°	607.6	607.6	607.6	607.6	607.6	607.6	607.6	607.6	607.6	607.6	607.6
2.5°	708.4	705.0	710.2	704.2	693.9	685.3	674.0	670.0	651.9	634.8	618.3
5°	794.4	795.4	793.8	785.4	770.9	754.8	732.1	727.1	695.5	662.9	627.8
7.5°	815.8	815.2	818.6	821.8	819.4	811.3	786.6	781.6	742.4	693.5	642.2
10°	750.0	750.4	757.4	779.2	806.1	834.1	830.2	827.4	789.0	728.1	658.3
12.5°	657.1	660.7	668.2	699.1	744.8	808.3	847.7	850.5	831.8	766.1	677.2
15°	616.9	617.7	623.7	642.4	676.4	754.8	840.3	848.1	867.6	804.3	697.7
17.5°	615.9	616.9	619.5	627.8	649.9	712.8	816.4	830.0	894.6	845.3	722.3
20°	653.7	653.1	651.3	646.9	656.5	698.9	794.2	809.3	909.3	885.3	747.0
22.5°	722.3	721.5	713.4	695.1	687.3	711.6	783.4	797.1	918.1	920.9	767.3
25°	801.3	806.9	791.8	764.1	744.8	744.0	793.0	802.7	925.7	952.5	781.2
27.5°	887.9	889.8	876.9	845.7	817.8	795.8	821.0	828.2	934.2	980.6	789.0
30°	983.0	982.4	967.8	931.6	897.6	866.0	868.0	870.9	953.9	1012.8	797.7
32.5°	1101.9	1104.5	1078.4	1029.1	988.3	944.6	929.6	930.0	989.5	1054.2	810.7
35°	1263.3	1256.9	1222.3	1152.2	1082.6	1035.5	1009.8	1007.6	1044.4	1109.9	833.5
37.5°	1417.2	1417.8	1381.6	1304.4	1216.5	1142.3	1105.9	1099.9	1121.6	1187.1	871.3
40°	1523.9	1525.9	1510.9	1470.5	1377.4	1272.4	1218.9	1212.7	1221.7	1284.9	920.7
42.5°	1580.4	1586.1	1590.3	1599.7	1529.2	1434.9	1352.6	1352.0	1342.6	1396.3	978.0
45°	1582.7	1591.1	1616.8	1681.4	1689.4	1620.3	1530.8	1517.3	1480.9	1515.5	1029.3
47.5°	1495.2	1514.7	1569.4	1697.3	1781.7	1804.6	1716.0	1707.7	1605.6	1609.8	1067.7
50°	1291.3	1311.6	1412.3	1615.8	1805.0	1951.0	1919.2	1902.2	1709.7	1672.1	1086.2
52.5°	1082.2	1100.7	1169.0	1422.0	1708.3	1997.1	2090.6	2070.3	1803.2	1693.8	1078.6
55°	753.0	777.8	844.5	1062.9	1485.5	1907.4	2147.3	2143.0	1886.7	1680.2	1066.7
57.5°	369.2	393.7	460.3	655.3	1100.5	1665.3	2060.6	2082.9	1936.5	1665.5	1057.0
60°	154.2	164.3	187.2	287.5	615.7	1258.5	1865.0	1895.9	1906.0	1645.6	1056.0
62.5°	89.5	91.1	93.5	119.2	239.5	721.5	1547.1	1591.1	1745.3	1619.2	1040.2
65°	67.6	68.2	67.2	73.2	98.9	273.7	1117.8	1177.7	1456.8	1516.3	977.4
67.5°	55.5	55.5	52.9	54.1	62.1	102.5	617.1	700.7	1078.0	1246.3	807.1
70°	44.2	45.2	44.0	42.4	44.4	56.7	219.6	272.3	627.8	735.9	470.7
72.5°	33.6	33.6	35.6	34.4	33.0	35.6	76.6	86.1	251.9	306.8	169.9
75°	25.9	26.7	28.2	26.9	24.9	21.1	36.8	39.0	76.0	71.4	38.0
77.5°	13.3	13.5	17.9	19.7	18.5	12.9	16.1	17.7	24.7	22.1	14.1
80°	8.0	8.4	10.1	15.5	12.3	6.8	6.6	7.0	11.7	10.1	5.8
82.5°	3.4	3.6	5.6	5.6	5.0	2.6	2.6	2.6	5.6	5.2	2.4
85°	0.0	0.0	1.0	0.8	0.8	1.0	1.0	1.0	1.4	2.0	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.6
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°	607.6	607.6	607.6	607.6	607.6	607.6	607.6	607.6	607.6	607.6	607.6
2.5°	607.6	594.8	577.5	561.8	540.7	528.8	512.3	498.9	487.4	483.8	482.2
5°	607.8	585.7	548.7	511.7	466.3	430.5	393.7	364.5	340.6	333.0	331.0
7.5°	611.9	579.3	519.4	452.2	376.2	313.5	257.4	207.1	183.8	175.9	174.3
10°	617.3	573.9	485.4	380.8	271.7	191.0	135.3	103.2	87.9	79.4	80.6
12.5°	624.3	569.4	447.8	303.6	179.8	105.0	74.4	62.3	59.1	57.5	56.7
15°	633.8	564.2	401.1	227.0	110.2	67.6	57.3	54.1	52.9	52.1	51.9
17.5°	643.4	558.2	353.7	159.7	73.2	56.1	51.5	49.9	49.1	48.5	48.3
20°	653.7	547.9	298.0	110.0	57.7	50.5	47.5	45.6	44.6	43.6	43.4
22.5°	658.1	531.4	244.7	77.0	51.3	46.4	42.6	40.4	39.2	38.4	38.4
25°	653.9	504.7	189.6	58.5	46.6	42.0	38.2	35.8	34.8	34.0	34.0
27.5°	642.6	470.3	138.3	48.5	41.6	37.4	33.8	31.6	30.8	30.4	30.4
30°	630.2	426.9	97.5	41.6	36.0	32.6	29.6	28.2	27.9	27.5	27.5
32.5°	619.5	386.3	67.2	36.6	31.8	28.4	26.3	25.7	25.9	25.5	25.7
35°	613.7	346.5	49.9	32.6	28.4	25.1	24.1	24.1	24.1	23.9	23.9
37.5°	616.1	307.2	40.6	29.8	25.3	22.9	21.9	22.3	22.7	22.7	22.7
40°	628.2	272.5	36.0	27.1	22.7	20.9	20.1	20.7	21.3	21.7	21.7
42.5°	643.4	244.3	32.6	24.9	20.9	18.9	18.5	19.1	19.7	20.1	20.1
45°	653.1	216.0	29.2	22.1	19.1	16.7	16.7	17.5	17.3	17.5	17.5
47.5°	657.5	193.4	25.7	19.1	16.3	14.5	14.7	15.1	14.7	15.1	15.1
50°	646.7	170.7	22.7	15.9	13.5	12.7	13.1	12.9	12.9	13.7	13.7
52.5°	626.7	153.8	20.1	13.5	11.5	11.3	11.7	10.9	11.1	11.1	10.9
55°	612.1	144.2	17.9	11.7	9.9	10.1	9.9	8.4	7.6	6.8	6.6
57.5°	604.8	140.3	16.3	10.5	8.8	8.8	8.0	5.8	4.4	3.4	3.0
60°	603.2	135.7	14.7	9.0	7.8	7.4	5.8	3.4	2.2	1.6	1.4
62.5°	587.9	124.5	13.3	7.2	6.8	6.0	3.6	2.0	1.2	0.8	0.6
65°	537.9	102.3	11.9	5.6	5.2	4.4	2.2	1.2	0.6	0.2	0.0
67.5°	427.9	72.6	10.5	4.2	3.6	2.8	1.4	0.8	0.2	0.0	0.0
70°	246.7	39.2	8.6	3.0	2.4	1.8	1.0	0.4	0.0	0.0	0.0
72.5°	82.4	18.3	6.6	2.0	1.8	1.4	0.6	0.2	0.0	0.0	0.0
75°	18.1	10.9	4.4	1.4	1.2	1.0	0.4	0.0	0.0	0.0	0.0
77.5°	6.8	7.6	2.2	1.0	0.8	0.6	0.2	0.0	0.0	0.0	0.0
80°	2.6	5.0	1.0	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	1.4	2.0	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.8	1.0	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.2	0.2	0.2	0.0	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)