

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: P628812

Luminaire Tested: GWS-SA1A-735-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628812  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2101 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

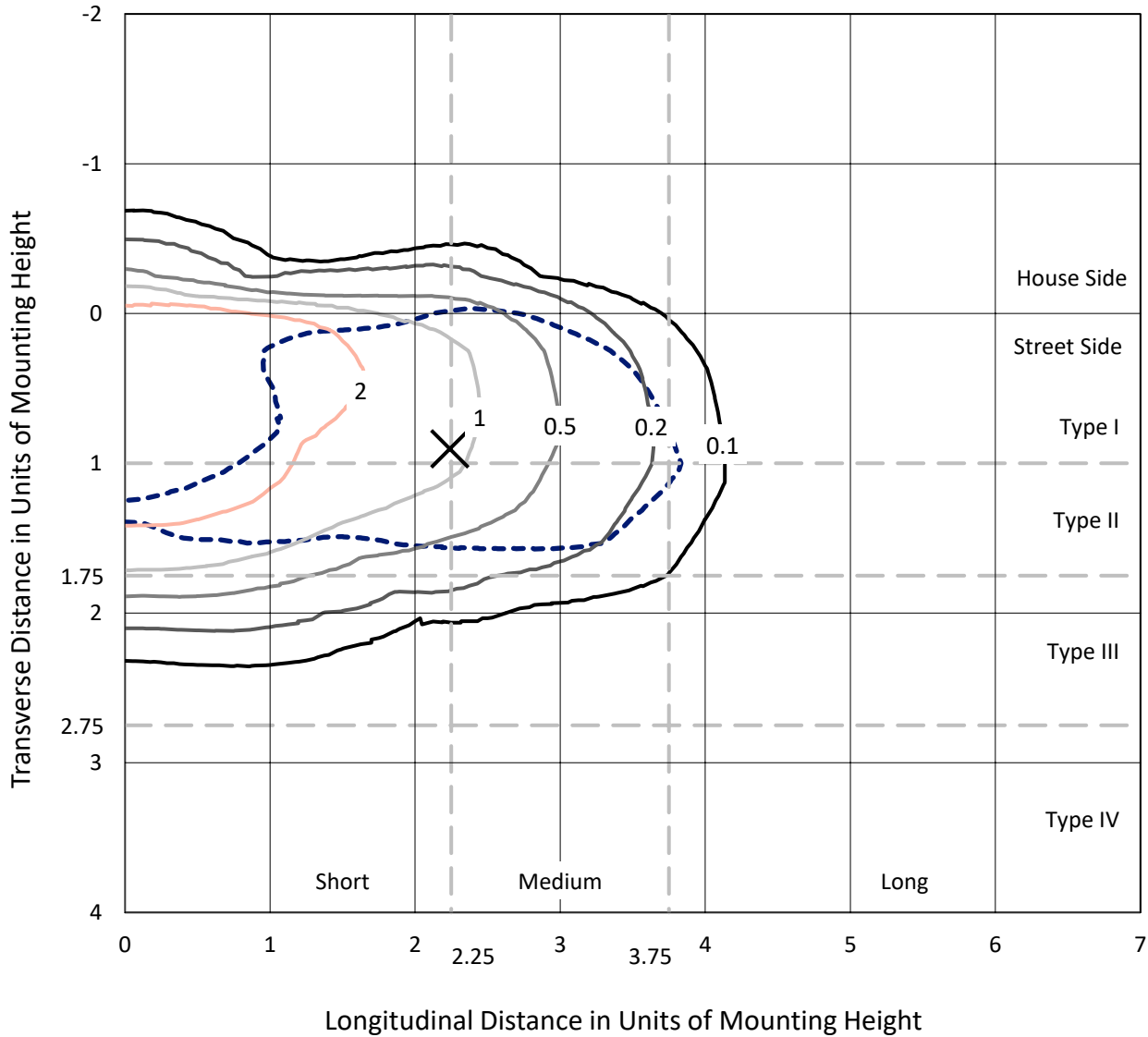
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P628812  
 CATALOG NUMBER: GWS-SA1A-735-U-T2-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

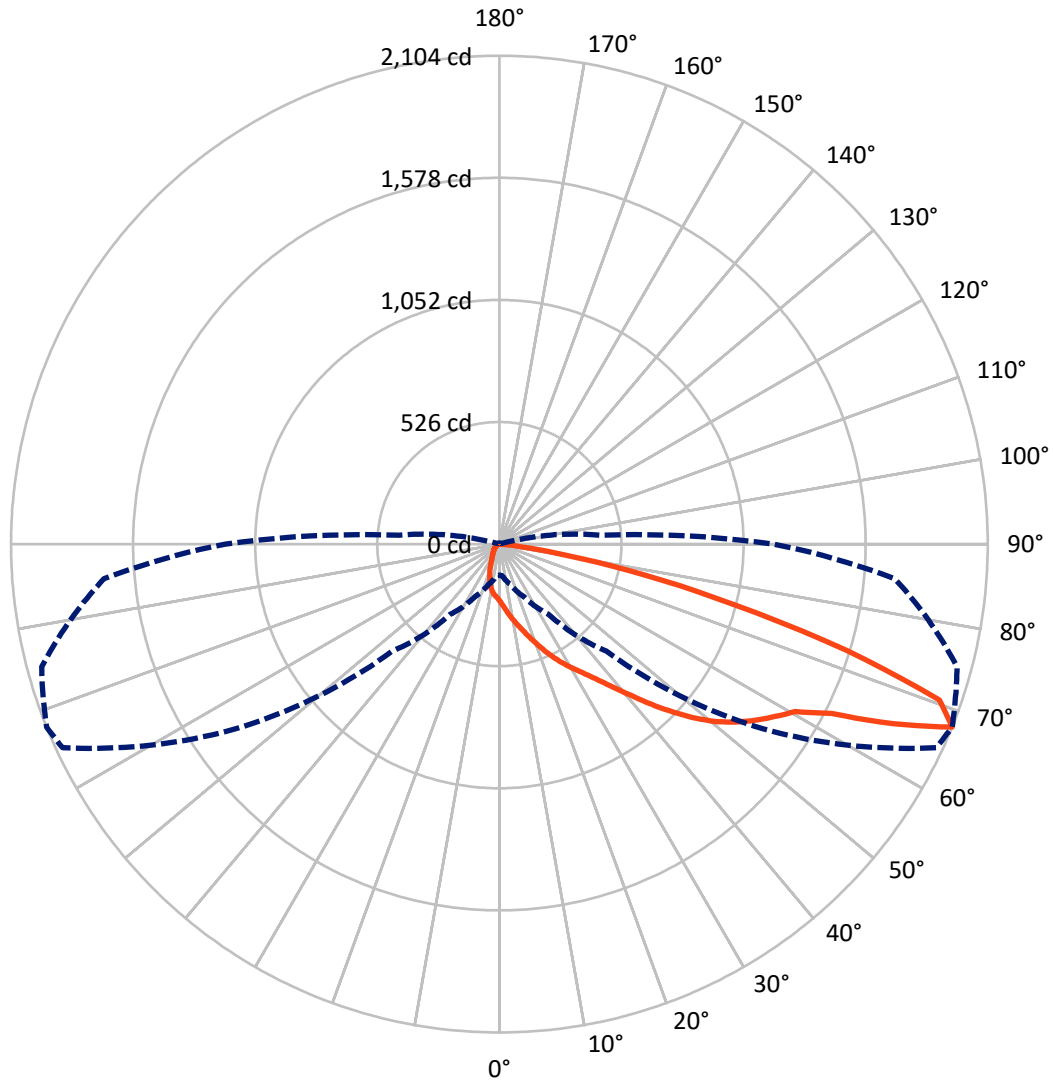
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P628812  
CATALOG NUMBER: GWS-SA1A-735-U-T2-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P628812  
 CATALOG NUMBER: GWS-SA1A-735-U-T2-W-HSS

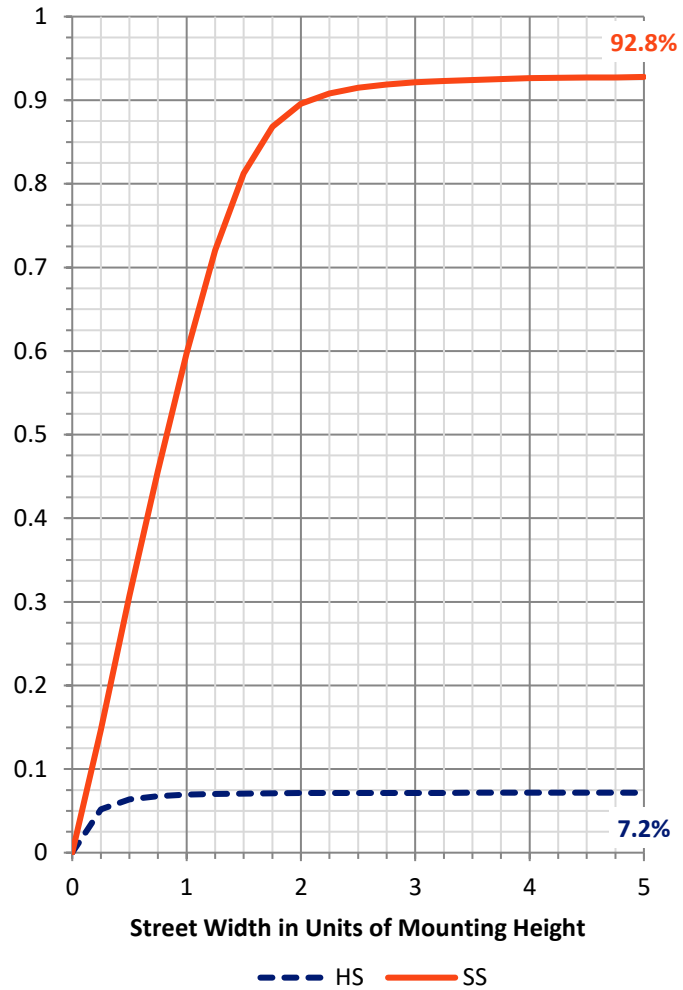
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	151.7	0.0	151.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	1949.3	0.0	1949.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	2101.0	0.0	2101.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.8	1.1
10°-20°	68.5	3.3
20°-30°	117.7	5.6
30°-40°	204.6	9.7
40°-50°	357.0	17.0
50°-60°	538.5	25.6
60°-70°	539.9	25.7
70°-80°	238.2	11.3
80°-90°	12.7	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°	2101.0	100.0
0°-180°	2101.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P628812

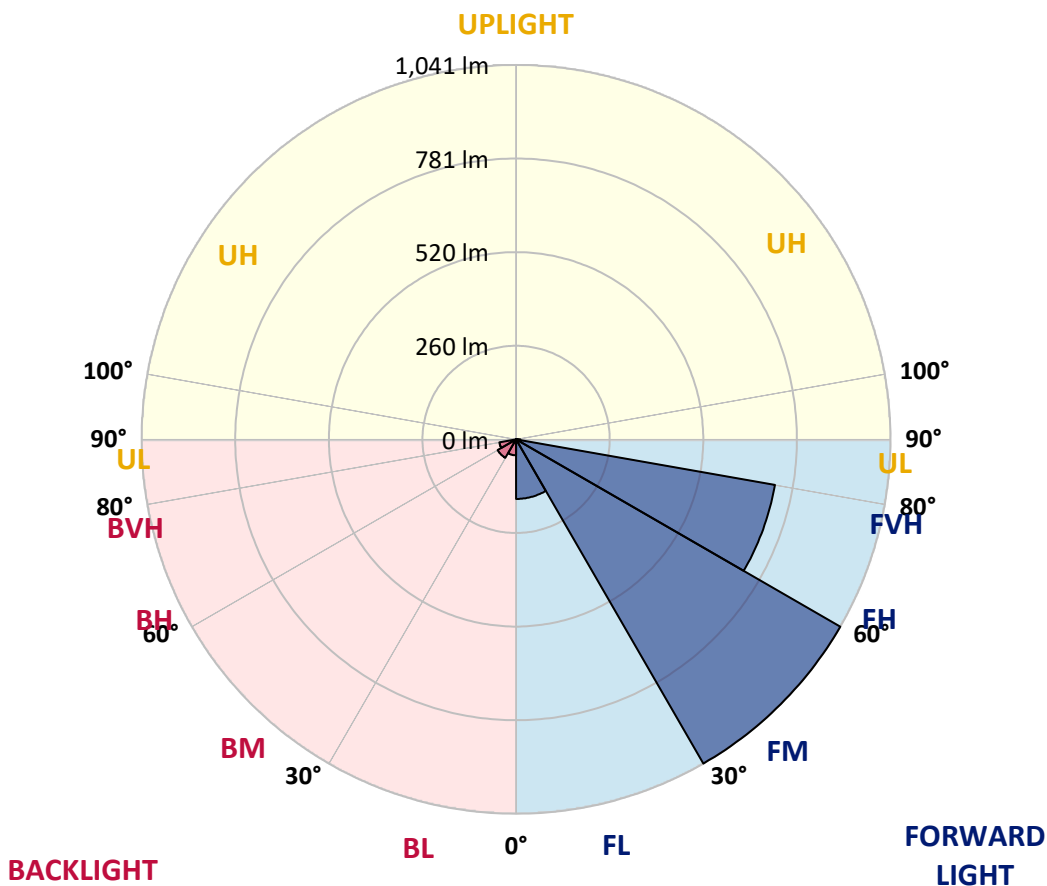
CATALOG NUMBER: GWS-SA1A-735-U-T2-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	165.6	7.9			
FM (30°-60°)	1040.8	49.5			
FH (60°-80°)	730.8	34.8			G1/1800
FVH (80°-90°)	12.0	0.6			G1/100
BL (0°-30°)	44.4	2.1	B0/110		
BM (30°-60°)	59.3	2.8	B0/220		
BH (60°-80°)	47.3	2.3	B0/110		G0/110
BVH (80°-90°)	0.7	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-G1**

Type II Short





REPORT NUMBER: P628812

CATALOG NUMBER: GWS-SA1A-735-U-T2-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5
2.5°	284.7	286.5	284.7	285.1	279.9	277.5	272.3	265.0	263.2	258.6	251.5
5°	319.5	321.1	319.3	318.9	312.9	308.4	299.8	287.3	283.7	274.7	260.8
7.5°	338.4	339.4	340.0	341.0	338.8	335.2	327.3	311.9	308.0	293.4	273.9
10°	340.4	341.2	344.2	350.3	354.7	356.9	352.5	338.2	332.2	317.9	289.9
12.5°	334.8	336.0	340.8	350.9	363.1	374.4	377.2	364.7	359.3	341.0	308.8
15°	327.3	328.3	335.0	348.7	367.2	387.9	399.5	394.1	388.1	369.0	329.8
17.5°	315.9	317.3	326.5	345.0	369.0	398.5	423.7	425.5	421.2	400.5	352.9
20°	309.4	310.5	318.7	337.8	367.8	406.4	446.2	463.3	458.6	436.9	379.4
22.5°	314.9	315.7	321.1	336.0	363.7	410.8	467.1	501.1	498.5	475.9	407.4
25°	343.4	346.0	342.8	345.4	365.5	413.2	484.0	538.9	539.5	516.8	436.3
27.5°	401.3	397.9	390.3	377.2	379.6	419.6	498.5	574.5	579.7	556.6	462.1
30°	460.3	458.2	453.6	433.3	416.4	433.9	510.7	610.9	619.1	595.8	485.0
32.5°	526.4	528.4	520.2	495.8	467.1	462.9	523.4	645.4	660.9	640.2	511.9
35°	605.4	606.0	589.7	562.8	530.2	510.7	546.1	683.6	712.2	696.9	547.9
37.5°	682.4	686.1	677.2	634.8	605.8	570.2	583.7	732.7	772.9	766.9	593.2
40°	750.6	756.2	753.4	712.4	674.4	644.4	642.0	790.2	846.3	853.1	652.9
42.5°	804.9	808.5	810.7	781.6	748.0	731.1	714.0	857.0	933.0	960.9	726.1
45°	862.2	863.4	868.0	848.3	819.0	820.4	799.1	938.0	1024.3	1080.4	810.1
47.5°	935.2	939.2	937.0	916.3	889.7	905.6	886.9	1021.4	1114.3	1207.8	896.2
50°	1024.1	1028.3	1026.3	1002.1	972.6	979.2	967.6	1102.5	1201.2	1328.1	967.8
52.5°	1069.9	1073.3	1098.3	1109.1	1093.6	1051.4	1036.3	1191.5	1274.6	1427.0	1033.5
55°	1047.8	1050.2	1104.5	1150.3	1207.0	1164.8	1105.5	1260.3	1339.3	1504.2	1082.4
57.5°	956.1	969.2	1043.0	1120.6	1239.8	1276.8	1217.7	1335.1	1401.7	1557.9	1130.4
60°	768.1	767.5	873.3	1012.6	1175.9	1307.6	1376.1	1436.3	1464.2	1599.1	1194.8
62.5°	424.5	428.3	569.0	752.6	998.1	1227.9	1495.0	1611.0	1606.8	1671.1	1295.5
65°	211.3	219.0	295.4	431.1	664.1	1014.8	1515.5	1877.6	1865.5	1840.6	1503.6
67.5°	134.1	137.1	179.4	250.5	369.2	652.3	1387.8	2076.5	2104.4	2041.7	1710.1
70°	86.9	91.9	124.7	171.3	222.8	336.2	1016.6	1947.6	2011.7	2019.6	1581.4
72.5°	47.3	50.9	79.6	122.3	160.9	168.1	571.0	1461.6	1564.7	1713.1	1237.2
75°	26.9	29.6	43.6	83.0	118.0	102.3	253.1	978.4	1044.2	1224.3	886.5
77.5°	16.3	18.5	24.5	40.4	74.0	68.4	95.7	595.6	637.4	730.5	465.3
80°	7.4	8.8	15.5	22.3	40.4	32.4	36.6	277.7	286.7	299.8	154.0
82.5°	3.4	4.0	7.0	13.3	22.9	18.7	14.1	64.1	90.3	85.5	39.2
85°	0.4	0.4	2.6	5.4	6.4	4.8	5.8	14.5	18.3	25.7	11.3
87.5°	0.0	0.0	0.2	0.2	0.4	0.6	1.2	1.8	2.6	4.2	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P628812  
 CATALOG NUMBER: GWS-SA1A-735-U-T2-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5
2.5°	248.3	242.7	237.7	230.2	225.2	219.6	215.7	211.1	209.3	207.9	205.9
5°	254.0	244.9	232.6	219.0	207.7	197.1	187.2	180.8	175.1	174.3	171.5
7.5°	263.2	249.7	229.0	206.7	187.6	169.9	156.0	144.8	139.1	137.3	134.1
10°	275.5	257.0	223.6	189.4	161.9	140.8	125.1	112.4	103.6	100.3	97.9
12.5°	289.1	263.6	214.9	168.1	136.7	112.6	92.7	79.2	73.6	71.6	69.8
15°	304.8	269.8	201.3	146.8	112.2	82.8	68.8	62.9	60.5	59.9	59.3
17.5°	319.9	273.9	185.0	124.7	86.3	64.3	57.7	55.5	54.9	54.3	53.9
20°	337.0	276.7	165.9	103.8	67.0	54.5	51.3	49.7	48.5	47.3	47.1
22.5°	354.5	276.7	145.2	83.2	56.1	48.9	45.2	42.2	40.0	38.8	38.4
25°	371.2	272.9	124.7	66.6	49.5	43.4	38.8	35.4	32.4	31.0	30.6
27.5°	383.0	263.0	106.8	56.3	44.8	38.6	33.0	29.2	26.7	25.3	25.1
30°	390.5	248.3	90.3	50.3	40.8	33.6	27.9	24.7	22.9	21.9	21.5
32.5°	396.1	230.2	75.6	46.0	37.0	29.2	24.3	21.7	20.1	19.3	19.1
35°	407.4	213.1	64.7	42.2	33.0	25.5	21.3	19.3	18.1	17.1	16.9
37.5°	423.1	198.9	56.1	38.8	29.2	22.7	19.3	17.5	16.5	15.5	15.3
40°	446.2	189.8	49.7	35.4	25.7	20.5	17.7	16.1	14.7	13.7	13.5
42.5°	481.8	185.6	45.4	32.0	22.7	18.5	16.3	14.3	12.9	11.9	11.7
45°	524.2	187.8	41.8	28.6	20.7	17.1	14.5	12.5	11.1	10.1	9.9
47.5°	569.6	195.6	38.8	25.3	18.7	15.7	12.9	10.7	9.5	8.4	8.2
50°	617.1	208.5	36.2	22.3	17.1	14.1	11.1	9.2	8.0	7.2	7.0
52.5°	658.3	226.0	33.6	20.1	15.7	12.5	9.7	8.0	6.8	6.0	5.8
55°	697.7	242.5	31.6	18.1	14.1	10.9	8.4	6.8	5.8	5.0	4.8
57.5°	740.5	260.0	29.2	16.3	12.7	9.7	7.4	5.8	5.0	4.2	4.0
60°	802.9	285.9	25.5	14.9	11.1	8.4	6.4	5.2	4.4	3.4	3.2
62.5°	892.8	333.2	21.5	12.9	9.5	7.2	5.4	4.4	3.6	2.8	2.4
65°	1060.9	413.6	17.7	10.7	7.6	6.0	4.6	3.6	2.8	2.0	1.8
67.5°	1181.9	434.5	14.3	8.6	6.2	4.6	3.8	2.8	2.0	1.4	1.2
70°	1033.3	312.1	11.1	7.0	5.2	3.6	3.0	2.2	1.4	1.0	0.8
72.5°	778.5	203.9	8.2	5.4	4.0	3.0	2.2	1.8	1.2	0.8	0.6
75°	548.7	117.8	6.0	4.0	2.8	2.2	1.8	1.4	1.0	0.6	0.6
77.5°	281.3	48.7	4.2	2.8	2.0	1.4	1.2	0.8	0.8	0.6	0.4
80°	85.5	16.1	2.4	1.8	1.4	1.0	0.6	0.6	0.6	0.4	0.2
82.5°	19.5	5.2	1.4	1.4	1.0	0.8	0.6	0.2	0.2	0.0	0.0
85°	5.0	1.6	1.2	1.0	1.0	0.8	0.4	0.2	0.0	0.0	0.0
87.5°	1.8	1.0	1.0	1.0	0.8	0.6	0.4	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)