

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: P629006

Luminaire Tested: GWS-SA1A-827-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629006
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-827-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) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1753 lumens
Efficiency: N/A
Efficacy: 89.0 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

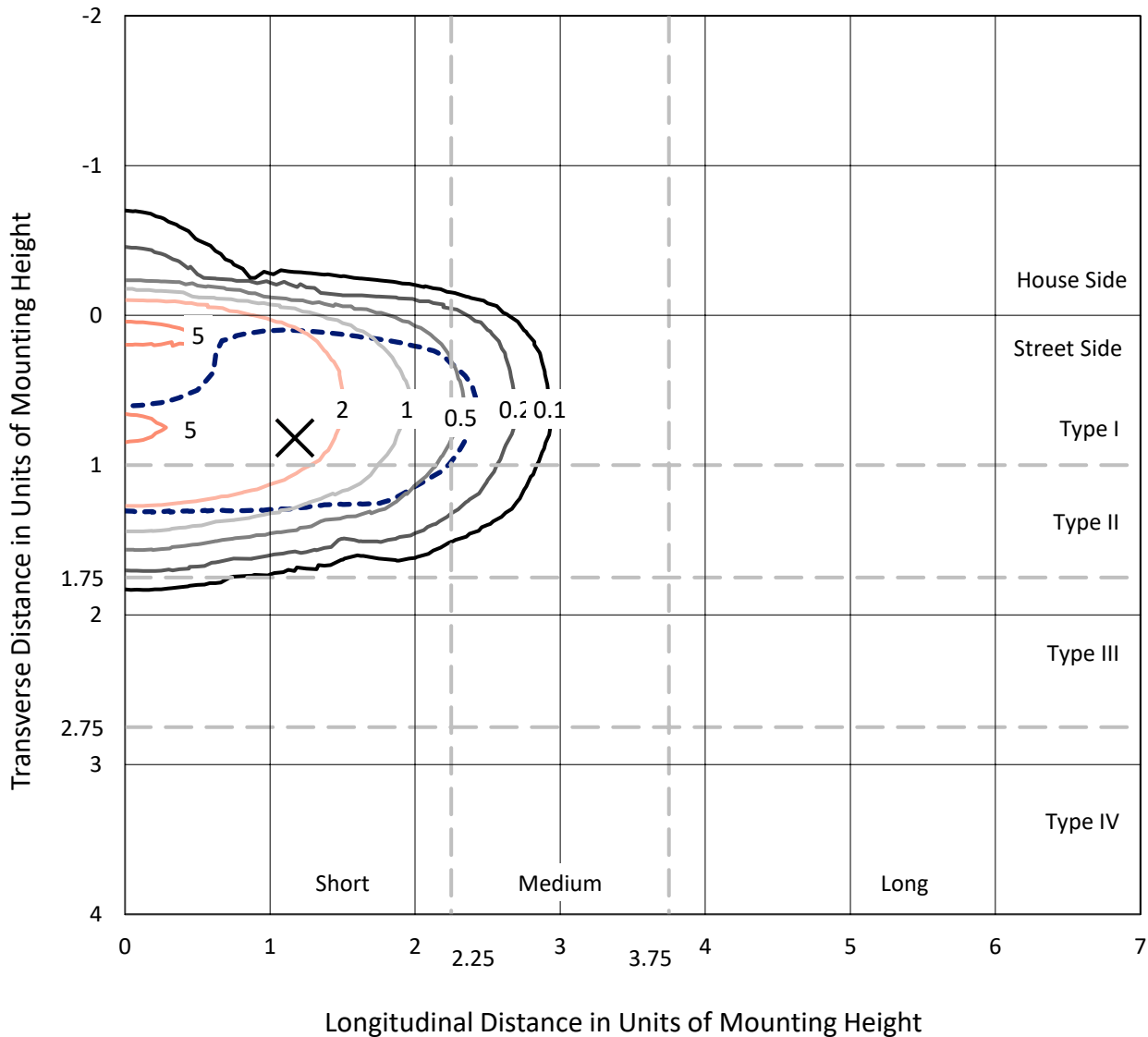
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P629006
 CATALOG NUMBER: GWS-SA1A-827-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

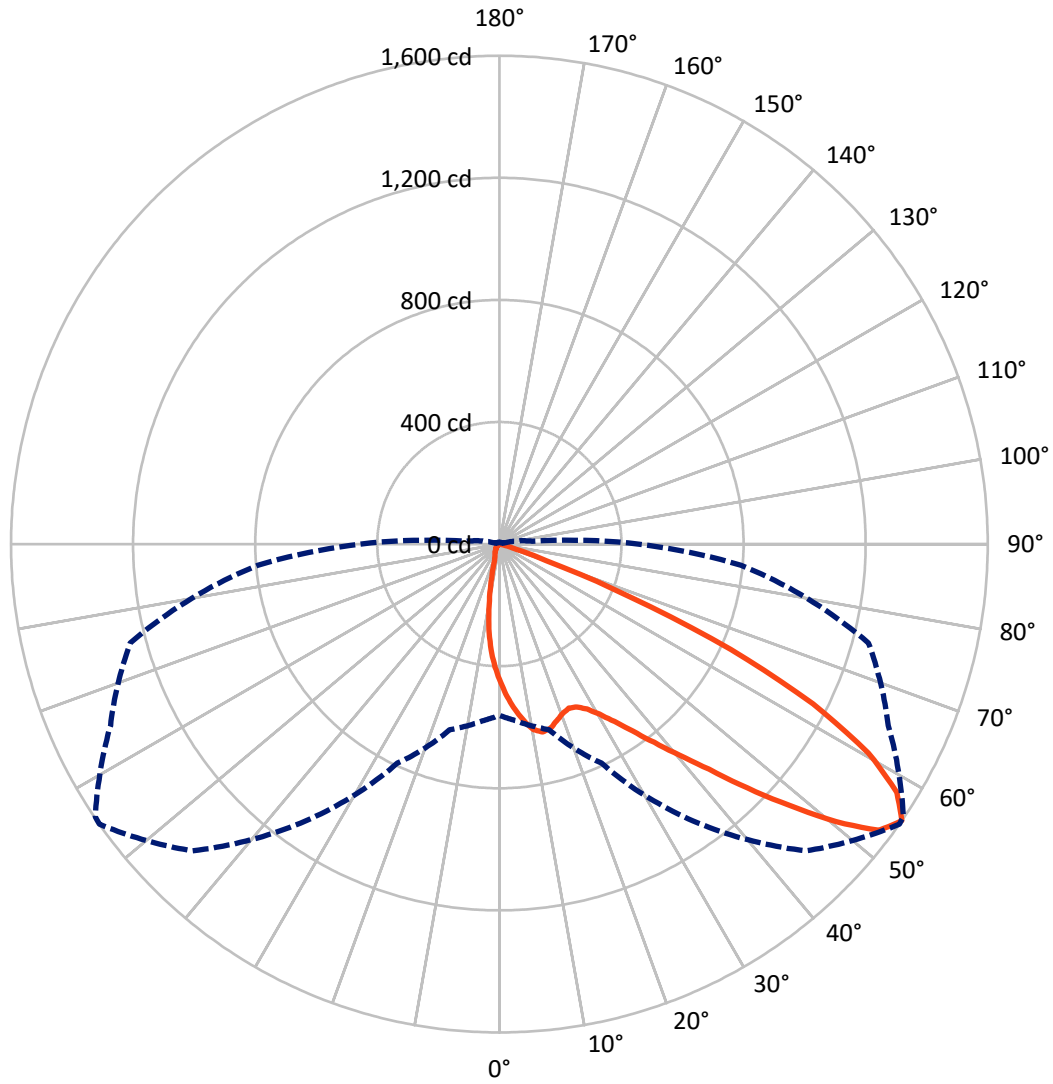
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

REPORT NUMBER: P629006
CATALOG NUMBER: GWS-SA1A-827-U-AFL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P629006
 CATALOG NUMBER: GWS-SA1A-827-U-AFL-W-HSS

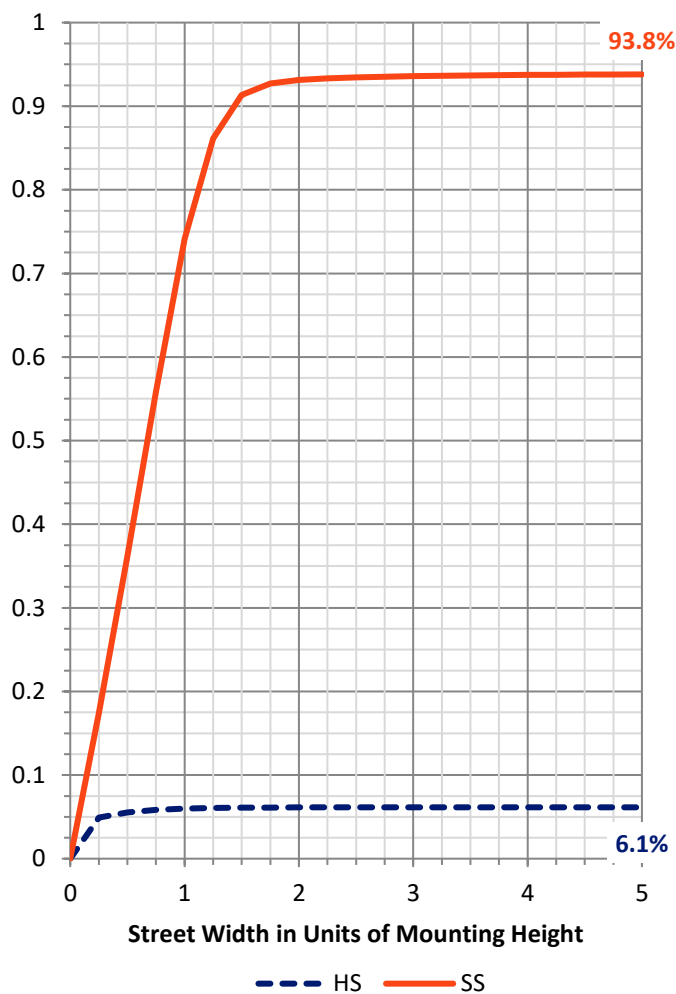
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	108.1	0.0	108.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	1644.9	0.0	1644.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	1753.0	0.0	1753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	2.3
10°-20°	96.5	5.5
20°-30°	160.7	9.2
30°-40°	273.8	15.6
40°-50°	447.0	25.5
50°-60°	468.0	26.7
60°-70°	236.0	13.5
70°-80°	29.8	1.7
80°-90°	1.1	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°	1753.0	100.0
0°-180°	1753.0	100.0

Coefficient of Utilization



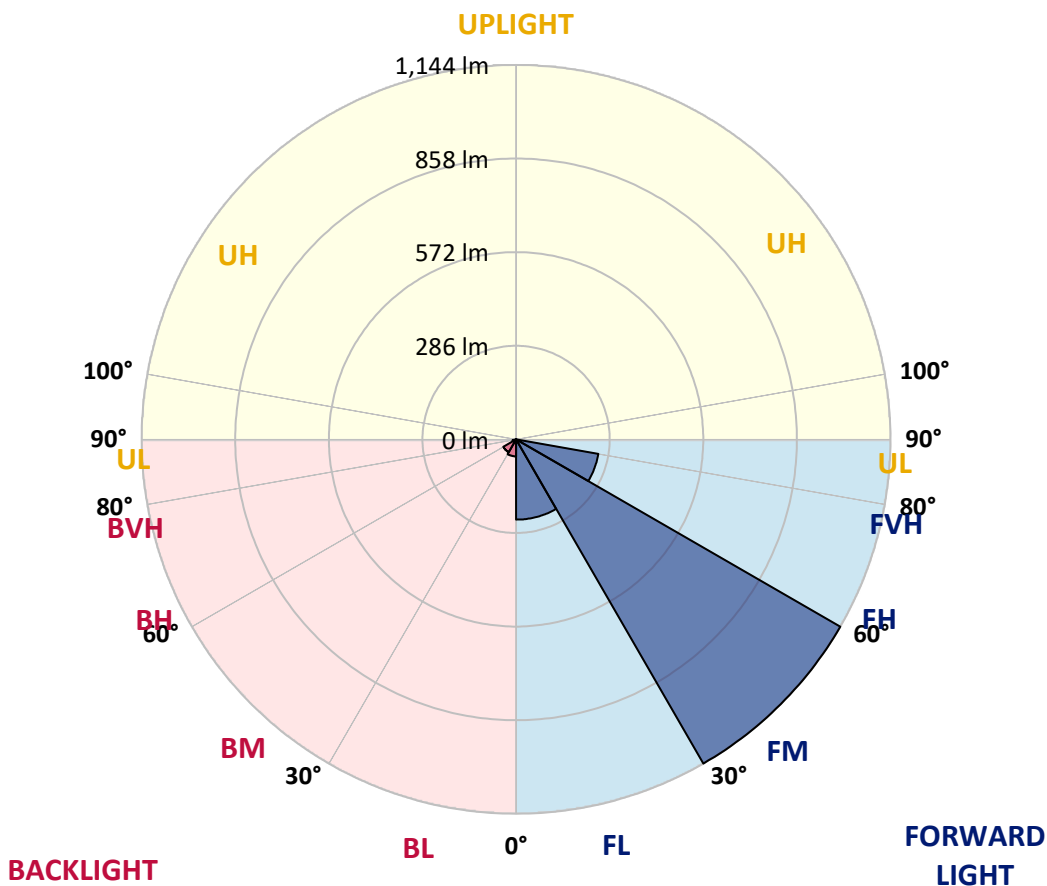
REPORT NUMBER: P629006

CATALOG NUMBER: GWS-SA1A-827-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.2	14.0			
FM (30°-60°)	1143.6	65.2			
FH (60°-80°)	255.0	14.5			G0/660
FVH (80°-90°)	1.0	0.1			G0/10
BL (0°-30°)	52.0	3.0	B0/110		
BM (30°-60°)	45.2	2.6	B0/220		
BH (60°-80°)	10.8	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





REPORT NUMBER: P629006
 CATALOG NUMBER: GWS-SA1A-827-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9
2.5°	528.0	525.4	529.3	524.8	517.2	510.7	502.4	499.4	485.9	473.1	460.8
5°	592.1	592.9	591.7	585.4	574.6	562.6	545.7	541.9	518.4	494.1	467.9
7.5°	608.0	607.6	610.1	612.5	610.7	604.7	586.3	582.5	553.3	516.9	478.7
10°	559.0	559.3	564.5	580.7	600.8	621.6	618.8	616.7	588.1	542.7	490.7
12.5°	489.8	492.5	498.0	521.1	555.1	602.5	631.8	633.9	620.0	571.0	504.8
15°	459.8	460.4	464.9	478.8	504.2	562.6	626.3	632.1	646.7	599.5	520.0
17.5°	459.0	459.8	461.7	467.9	484.4	531.3	608.5	618.7	666.8	630.0	538.3
20°	487.2	486.8	485.4	482.1	489.3	520.9	592.0	603.2	677.7	659.9	556.8
22.5°	538.3	537.7	531.7	518.1	512.2	530.4	583.9	594.1	684.3	686.4	571.9
25°	597.2	601.4	590.2	569.5	555.1	554.5	591.1	598.3	690.0	709.9	582.2
27.5°	661.8	663.2	653.6	630.3	609.5	593.2	611.9	617.3	696.3	730.9	588.1
30°	732.7	732.3	721.3	694.3	669.0	645.5	647.0	649.1	711.0	754.9	594.5
32.5°	821.3	823.2	803.7	767.0	736.6	704.1	692.8	693.1	737.5	785.8	604.3
35°	941.6	936.8	911.0	858.7	806.9	771.8	752.6	751.0	778.4	827.3	621.2
37.5°	1056.3	1056.7	1029.7	972.2	906.7	851.4	824.3	819.8	836.0	884.8	649.4
40°	1135.8	1137.3	1126.1	1096.0	1026.6	948.4	908.5	903.8	910.6	957.7	686.2
42.5°	1178.0	1182.2	1185.3	1192.3	1139.7	1069.5	1008.2	1007.7	1000.7	1040.7	729.0
45°	1179.6	1185.9	1205.1	1253.2	1259.2	1207.6	1140.9	1130.9	1103.8	1129.5	767.2
47.5°	1114.4	1128.9	1169.7	1265.0	1328.0	1345.1	1279.0	1272.8	1196.7	1199.8	795.8
50°	962.4	977.6	1052.7	1204.3	1345.4	1454.2	1430.5	1417.7	1274.3	1246.3	809.6
52.5°	806.6	820.4	871.3	1059.9	1273.3	1488.5	1558.2	1543.0	1344.0	1262.5	803.9
55°	561.3	579.7	629.4	792.2	1107.2	1421.6	1600.4	1597.3	1406.2	1252.3	795.0
57.5°	275.2	293.4	343.0	488.4	820.2	1241.2	1535.8	1552.5	1443.4	1241.3	787.9
60°	114.9	122.4	139.5	214.3	458.9	938.0	1390.0	1413.1	1420.6	1226.5	787.1
62.5°	66.7	67.9	69.7	88.9	178.5	537.7	1153.1	1185.9	1300.8	1206.9	775.3
65°	50.4	50.8	50.1	54.6	73.7	204.0	833.1	877.8	1085.8	1130.1	728.5
67.5°	41.4	41.4	39.4	40.3	46.3	76.4	459.9	522.3	803.4	928.9	601.6
70°	33.0	33.7	32.8	31.6	33.1	42.3	163.7	202.9	467.9	548.5	350.8
72.5°	25.0	25.0	26.5	25.6	24.6	26.5	57.1	64.1	187.8	228.7	126.6
75°	19.3	19.9	21.0	20.1	18.6	15.7	27.4	29.1	56.6	53.2	28.3
77.5°	9.9	10.0	13.3	14.7	13.8	9.6	12.0	13.2	18.4	16.5	10.5
80°	6.0	6.3	7.5	11.5	9.1	5.1	4.9	5.2	8.7	7.5	4.3
82.5°	2.5	2.7	4.2	4.2	3.7	1.9	1.9	1.9	4.2	3.9	1.8
85°	0.0	0.0	0.7	0.6	0.6	0.7	0.7	0.7	1.0	1.5	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.4
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: P629006
 CATALOG NUMBER: GWS-SA1A-827-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9
2.5°	452.9	443.3	430.4	418.7	403.0	394.2	381.9	371.8	363.3	360.6	359.4
5°	453.0	436.6	409.0	381.4	347.5	320.9	293.4	271.7	253.9	248.2	246.7
7.5°	456.0	431.8	387.1	337.1	280.4	233.6	191.8	154.4	137.0	131.1	129.9
10°	460.1	427.7	361.8	283.8	202.5	142.4	100.9	76.9	65.5	59.2	60.1
12.5°	465.3	424.4	333.8	226.3	134.0	78.2	55.5	46.5	44.1	42.9	42.3
15°	472.4	420.5	299.0	169.2	82.1	50.4	42.7	40.3	39.4	38.8	38.7
17.5°	479.6	416.0	263.6	119.0	54.6	41.8	38.4	37.2	36.6	36.1	36.0
20°	487.2	408.4	222.1	82.0	43.0	37.6	35.4	34.0	33.3	32.5	32.4
22.5°	490.5	396.1	182.4	57.4	38.2	34.6	31.8	30.1	29.2	28.6	28.6
25°	487.4	376.2	141.3	43.6	34.8	31.3	28.5	26.7	25.9	25.3	25.3
27.5°	479.0	350.5	103.1	36.1	31.0	27.9	25.2	23.5	22.9	22.6	22.6
30°	469.7	318.2	72.7	31.0	26.8	24.3	22.0	21.0	20.8	20.5	20.5
32.5°	461.7	287.9	50.1	27.3	23.7	21.1	19.6	19.2	19.3	19.0	19.2
35°	457.4	258.2	37.2	24.3	21.1	18.7	18.0	18.0	18.0	17.8	17.8
37.5°	459.2	229.0	30.3	22.2	18.9	17.1	16.3	16.6	16.9	16.9	16.9
40°	468.2	203.1	26.8	20.2	16.9	15.6	15.0	15.4	15.9	16.2	16.2
42.5°	479.6	182.1	24.3	18.6	15.6	14.1	13.8	14.2	14.7	15.0	15.0
45°	486.8	161.0	21.7	16.5	14.2	12.4	12.4	13.0	12.9	13.0	13.0
47.5°	490.1	144.2	19.2	14.2	12.1	10.8	10.9	11.2	10.9	11.2	11.2
50°	482.0	127.2	16.9	11.8	10.0	9.4	9.7	9.6	9.6	10.2	10.2
52.5°	467.1	114.6	15.0	10.0	8.5	8.4	8.7	8.1	8.2	8.2	8.1
55°	456.2	107.5	13.3	8.7	7.3	7.5	7.3	6.3	5.7	5.1	4.9
57.5°	450.8	104.6	12.1	7.8	6.6	6.6	6.0	4.3	3.3	2.5	2.2
60°	449.6	101.2	10.9	6.7	5.8	5.5	4.3	2.5	1.6	1.2	1.0
62.5°	438.2	92.8	9.9	5.4	5.1	4.5	2.7	1.5	0.9	0.6	0.4
65°	400.9	76.3	8.8	4.2	3.9	3.3	1.6	0.9	0.4	0.1	0.0
67.5°	318.9	54.1	7.8	3.1	2.7	2.1	1.0	0.6	0.1	0.0	0.0
70°	183.9	29.2	6.4	2.2	1.8	1.3	0.7	0.3	0.0	0.0	0.0
72.5°	61.4	13.6	4.9	1.5	1.3	1.0	0.4	0.1	0.0	0.0	0.0
75°	13.5	8.1	3.3	1.0	0.9	0.7	0.3	0.0	0.0	0.0	0.0
77.5°	5.1	5.7	1.6	0.7	0.6	0.4	0.1	0.0	0.0	0.0	0.0
80°	1.9	3.7	0.7	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	1.5	0.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.6	0.7	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.1	0.1	0.1	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)