

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: P629087

Luminaire Tested: GWS-SA1A-830-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629087
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1692.2 lumens
Efficiency: N/A
Efficacy: 85.9 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

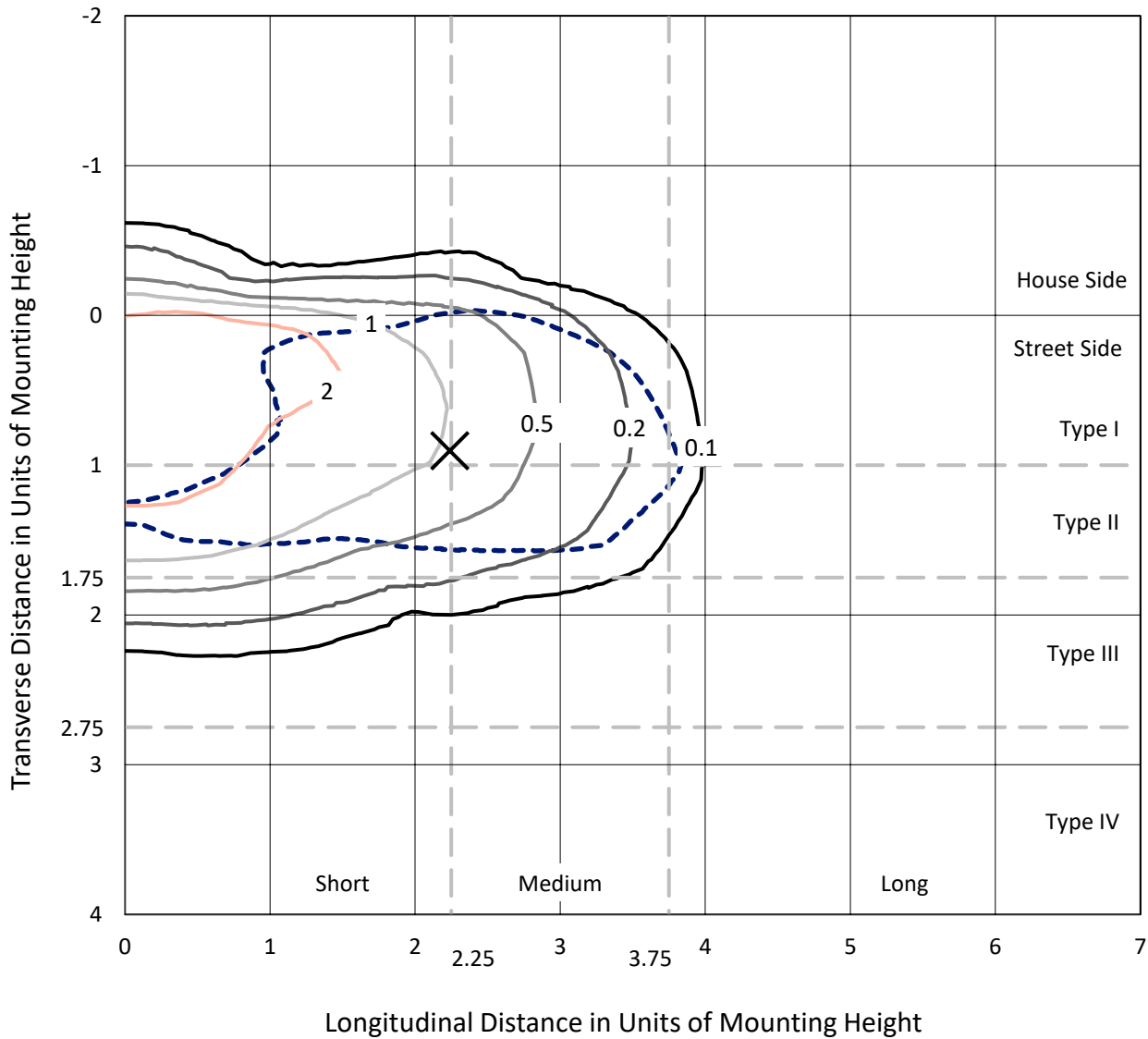
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P629087
 CATALOG NUMBER: GWS-SA1A-830-U-T2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

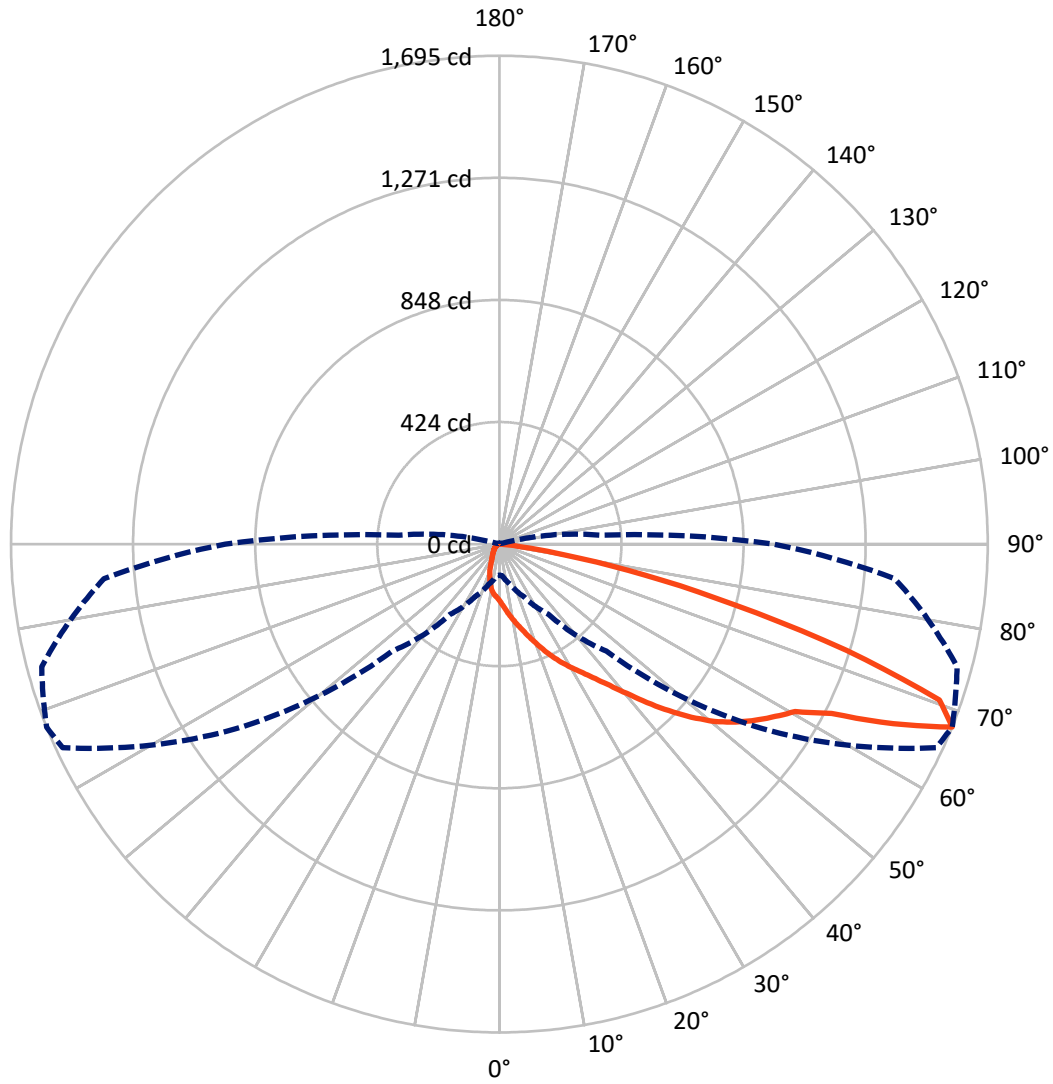
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

REPORT NUMBER: P629087
CATALOG NUMBER: GWS-SA1A-830-U-T2-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P629087

CATALOG NUMBER: GWS-SA1A-830-U-T2-W-HSS

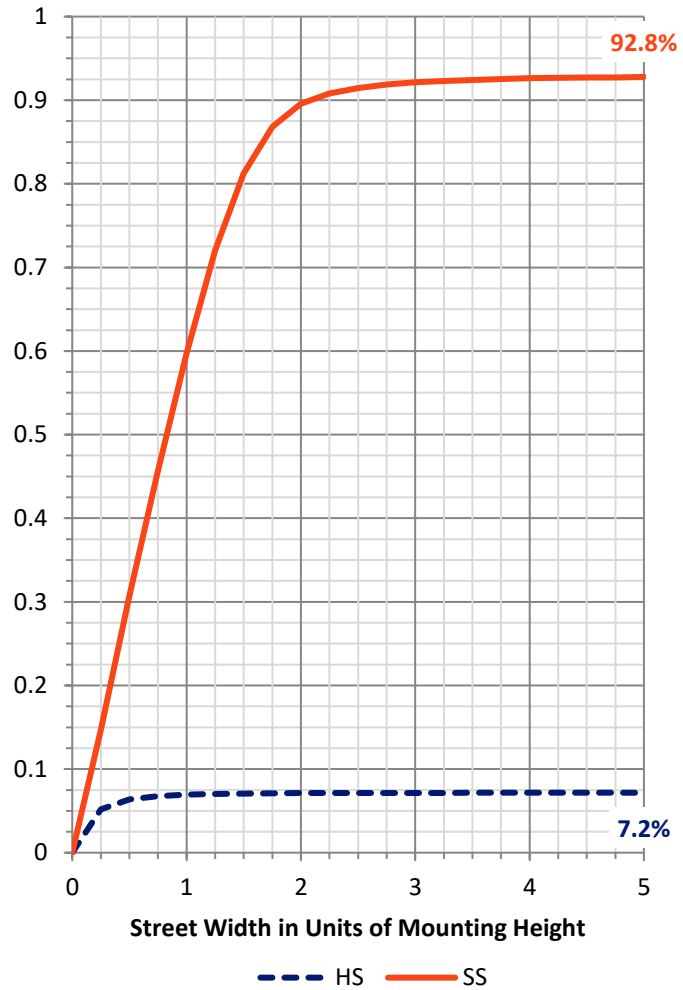
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	122.2	0.0	122.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	1570.0	0.0	1570.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	1692.2	0.0	1692.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.2	1.1
10°-20°	55.2	3.3
20°-30°	94.8	5.6
30°-40°	164.8	9.7
40°-50°	287.6	17.0
50°-60°	433.7	25.6
60°-70°	434.9	25.7
70°-80°	191.9	11.3
80°-90°	10.3	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°	1692.2	100.0
0°-180°	1692.2	100.0

Coefficient of Utilization



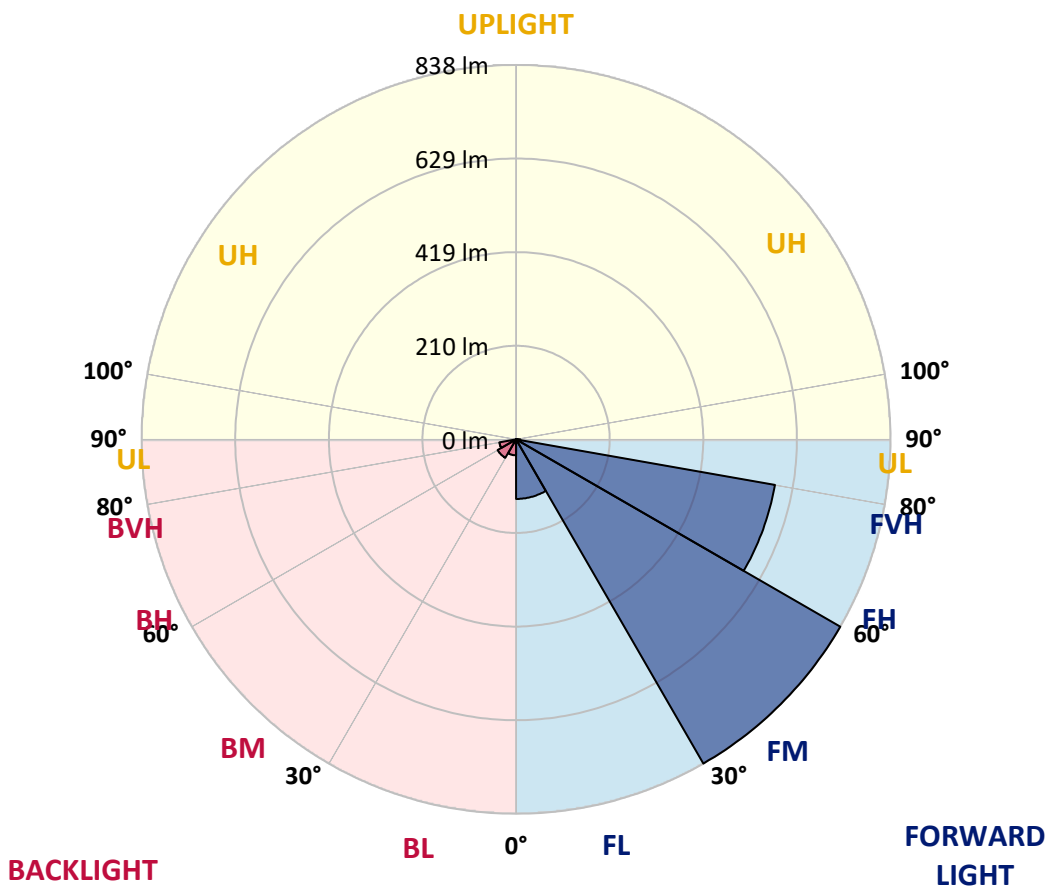
REPORT NUMBER: P629087

CATALOG NUMBER: GWS-SA1A-830-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°)	133.4	7.9			
FM (30°-60°)	838.3	49.5			
FH (60°-80°)	588.6	34.8			G0/660
FVH (80°-90°)	9.7	0.6			G0/10
BL (0°-30°)	35.7	2.1	B0/110		
BM (30°-60°)	47.7	2.8	B0/220		
BH (60°-80°)	38.1	2.3	B0/110		G0/110
BVH (80°-90°)	0.6	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: P629087
 CATALOG NUMBER: GWS-SA1A-830-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9
2.5°	229.3	230.8	229.3	229.6	225.4	223.5	219.3	213.4	212.0	208.3	202.6
5°	257.3	258.6	257.2	256.8	252.0	248.4	241.5	231.4	228.5	221.2	210.0
7.5°	272.6	273.4	273.9	274.7	272.9	270.0	263.7	251.2	248.1	236.3	220.6
10°	274.2	274.8	277.3	282.1	285.7	287.5	283.9	272.4	267.5	256.0	233.5
12.5°	269.6	270.6	274.5	282.6	292.5	301.5	303.8	293.8	289.4	274.7	248.8
15°	263.7	264.5	269.8	280.8	295.7	312.4	321.8	317.4	312.6	297.2	265.6
17.5°	254.4	255.6	263.0	277.9	297.2	321.0	341.2	342.7	339.3	322.6	284.2
20°	249.2	250.0	256.7	272.1	296.2	327.3	359.4	373.1	369.4	351.9	305.6
22.5°	253.6	254.3	258.6	270.6	293.0	330.9	376.2	403.6	401.5	383.3	328.1
25°	276.6	278.7	276.1	278.2	294.4	332.8	389.8	434.0	434.5	416.2	351.4
27.5°	323.2	320.5	314.3	303.8	305.8	338.0	401.5	462.7	466.9	448.3	372.2
30°	370.7	369.1	365.4	349.0	335.4	349.5	411.3	492.0	498.6	479.9	390.6
32.5°	424.0	425.6	419.0	399.4	376.2	372.8	421.6	519.9	532.3	515.6	412.3
35°	487.6	488.1	475.0	453.3	427.1	411.3	439.9	550.6	573.6	561.3	441.3
37.5°	549.7	552.6	545.4	511.3	488.0	459.3	470.1	590.1	622.5	617.7	477.7
40°	604.6	609.1	606.8	573.8	543.2	519.0	517.1	636.5	681.6	687.1	525.8
42.5°	648.3	651.2	653.0	629.5	602.4	588.8	575.1	690.2	751.4	774.0	584.8
45°	694.4	695.4	699.1	683.3	659.6	660.7	643.6	755.5	825.0	870.1	652.5
47.5°	753.2	756.5	754.7	738.0	716.6	729.4	714.4	822.7	897.5	972.8	721.8
50°	824.8	828.2	826.6	807.1	783.3	788.7	779.3	888.0	967.5	1069.7	779.5
52.5°	861.7	864.5	884.6	893.3	880.8	846.8	834.7	959.7	1026.6	1149.3	832.4
55°	843.9	845.9	889.6	926.5	972.2	938.2	890.4	1015.1	1078.7	1211.5	871.8
57.5°	770.1	780.6	840.0	902.5	998.6	1028.4	980.8	1075.3	1128.9	1254.8	910.5
60°	618.6	618.2	703.3	815.6	947.1	1053.1	1108.4	1156.8	1179.3	1288.0	962.3
62.5°	341.9	344.9	458.3	606.2	803.9	989.0	1204.1	1297.5	1294.1	1346.0	1043.4
65°	170.2	176.4	237.9	347.2	534.9	817.4	1220.6	1512.3	1502.6	1482.5	1211.0
67.5°	108.0	110.4	144.5	201.8	297.3	525.4	1117.8	1672.4	1695.0	1644.4	1377.4
70°	70.0	74.0	100.4	138.0	179.4	270.8	818.8	1568.6	1620.3	1626.6	1273.7
72.5°	38.1	41.0	64.1	98.5	129.6	135.4	459.9	1177.2	1260.3	1379.8	996.5
75°	21.7	23.8	35.1	66.9	95.1	82.4	203.9	788.0	841.0	986.1	714.0
77.5°	13.1	14.9	19.8	32.6	59.6	55.1	77.1	479.7	513.4	588.4	374.7
80°	6.0	7.1	12.5	18.0	32.6	26.1	29.5	223.7	230.9	241.5	124.1
82.5°	2.8	3.2	5.7	10.7	18.5	15.1	11.3	51.7	72.7	68.8	31.6
85°	0.3	0.3	2.1	4.4	5.2	3.9	4.7	11.7	14.7	20.7	9.1
87.5°	0.0	0.0	0.2	0.2	0.3	0.5	1.0	1.5	2.1	3.4	2.3
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: P629087
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9
2.5°	200.0	195.5	191.4	185.4	181.4	176.8	173.8	170.0	168.6	167.5	165.8
5°	204.5	197.3	187.4	176.4	167.3	158.7	150.8	145.6	141.1	140.4	138.1
7.5°	212.0	201.1	184.5	166.5	151.1	136.8	125.7	116.6	112.1	110.6	108.0
10°	221.9	207.0	180.1	152.6	130.4	113.4	100.7	90.5	83.4	80.8	78.9
12.5°	232.9	212.3	173.1	135.4	110.1	90.7	74.7	63.8	59.3	57.7	56.2
15°	245.5	217.3	162.1	118.2	90.4	66.7	55.4	50.7	48.7	48.3	47.8
17.5°	257.7	220.6	149.0	100.4	69.5	51.8	46.5	44.7	44.2	43.7	43.4
20°	271.4	222.8	133.6	83.6	53.9	43.9	41.3	40.0	39.0	38.1	37.9
22.5°	285.5	222.8	116.9	67.0	45.2	39.4	36.4	34.0	32.2	31.3	30.9
25°	299.0	219.8	100.4	53.6	39.8	35.0	31.3	28.5	26.1	24.9	24.6
27.5°	308.5	211.8	86.0	45.3	36.1	31.1	26.6	23.5	21.5	20.4	20.2
30°	314.5	200.0	72.7	40.5	32.9	27.0	22.5	19.9	18.5	17.7	17.3
32.5°	319.0	185.4	60.9	37.1	29.8	23.5	19.6	17.5	16.2	15.5	15.4
35°	328.1	171.7	52.1	34.0	26.6	20.6	17.2	15.5	14.6	13.8	13.6
37.5°	340.7	160.2	45.2	31.3	23.5	18.3	15.5	14.1	13.3	12.5	12.3
40°	359.4	152.9	40.0	28.5	20.7	16.5	14.3	13.0	11.8	11.0	10.9
42.5°	388.0	149.5	36.6	25.7	18.3	14.9	13.1	11.5	10.4	9.6	9.4
45°	422.2	151.3	33.7	23.0	16.7	13.8	11.7	10.0	8.9	8.1	7.9
47.5°	458.8	157.6	31.3	20.4	15.1	12.6	10.4	8.6	7.6	6.8	6.6
50°	497.0	167.9	29.2	18.0	13.8	11.3	8.9	7.4	6.5	5.8	5.7
52.5°	530.2	182.0	27.0	16.2	12.6	10.0	7.8	6.5	5.5	4.9	4.7
55°	562.0	195.3	25.4	14.6	11.3	8.7	6.8	5.5	4.7	4.0	3.9
57.5°	596.5	209.4	23.5	13.1	10.2	7.8	6.0	4.7	4.0	3.4	3.2
60°	646.7	230.3	20.6	12.0	8.9	6.8	5.2	4.2	3.6	2.8	2.6
62.5°	719.1	268.3	17.3	10.4	7.6	5.8	4.4	3.6	2.9	2.3	1.9
65°	854.4	333.1	14.3	8.6	6.2	4.9	3.7	2.9	2.3	1.6	1.5
67.5°	951.9	350.0	11.5	7.0	5.0	3.7	3.1	2.3	1.6	1.1	1.0
70°	832.3	251.3	8.9	5.7	4.2	2.9	2.4	1.8	1.1	0.8	0.6
72.5°	627.1	164.2	6.6	4.4	3.2	2.4	1.8	1.5	1.0	0.6	0.5
75°	442.0	94.9	4.9	3.2	2.3	1.8	1.5	1.1	0.8	0.5	0.5
77.5°	226.6	39.2	3.4	2.3	1.6	1.1	1.0	0.6	0.6	0.5	0.3
80°	68.8	13.0	1.9	1.5	1.1	0.8	0.5	0.5	0.5	0.3	0.2
82.5°	15.7	4.2	1.1	1.1	0.8	0.6	0.5	0.2	0.2	0.0	0.0
85°	4.0	1.3	1.0	0.8	0.8	0.6	0.3	0.2	0.0	0.0	0.0
87.5°	1.5	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)