

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: P629059

Luminaire Tested: GWS-SA1A-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-830-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1701.4 lumens
Efficiency: N/A
Efficacy: 86.4 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

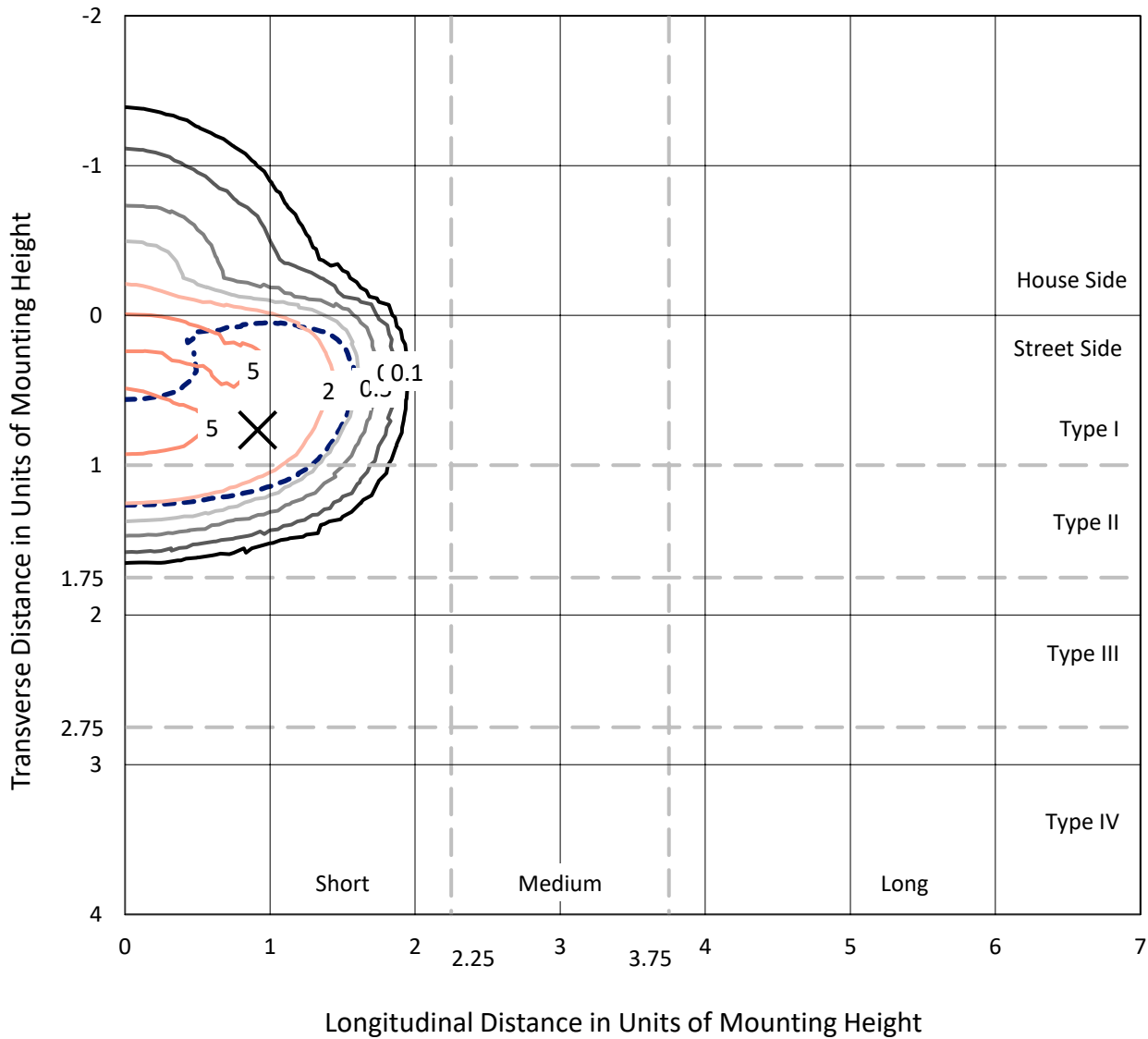
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

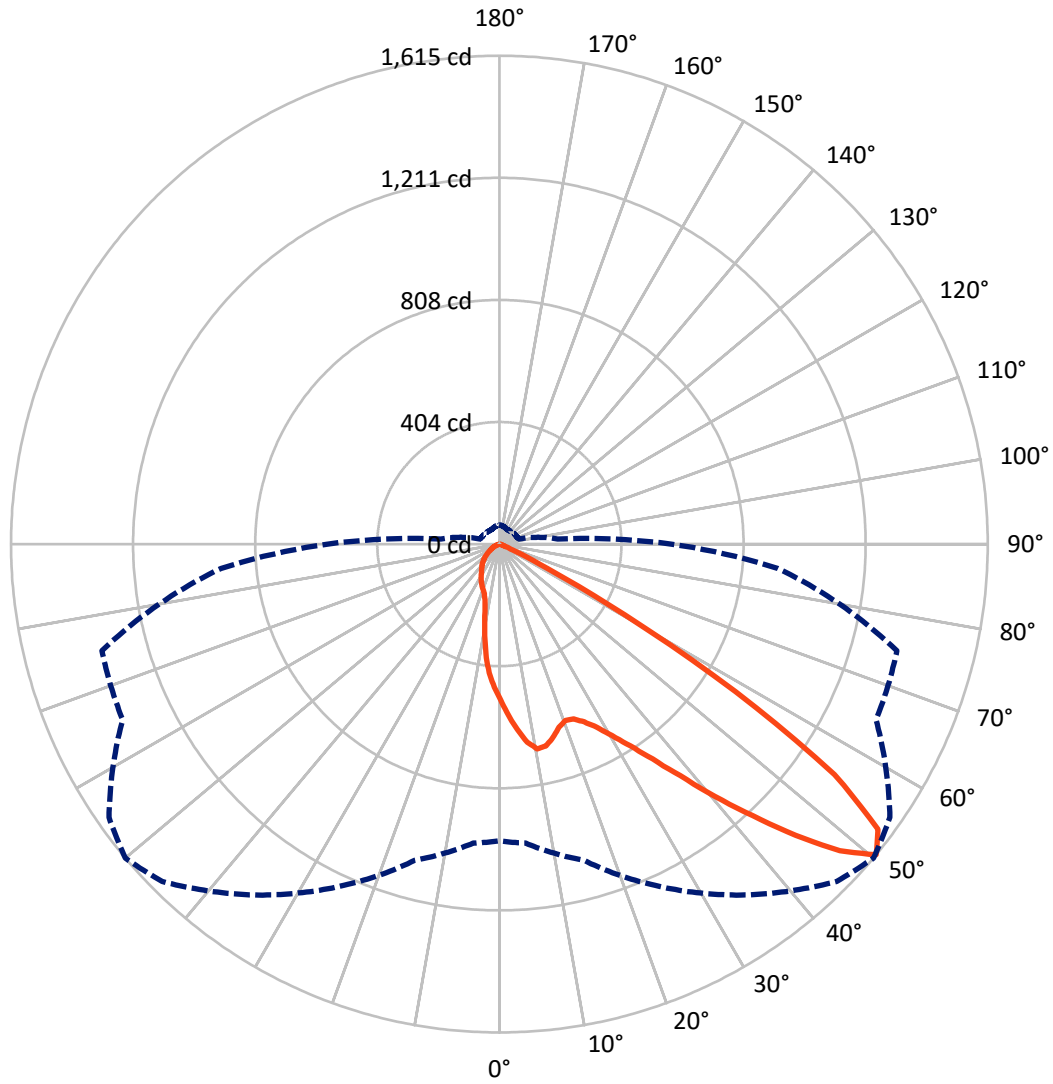
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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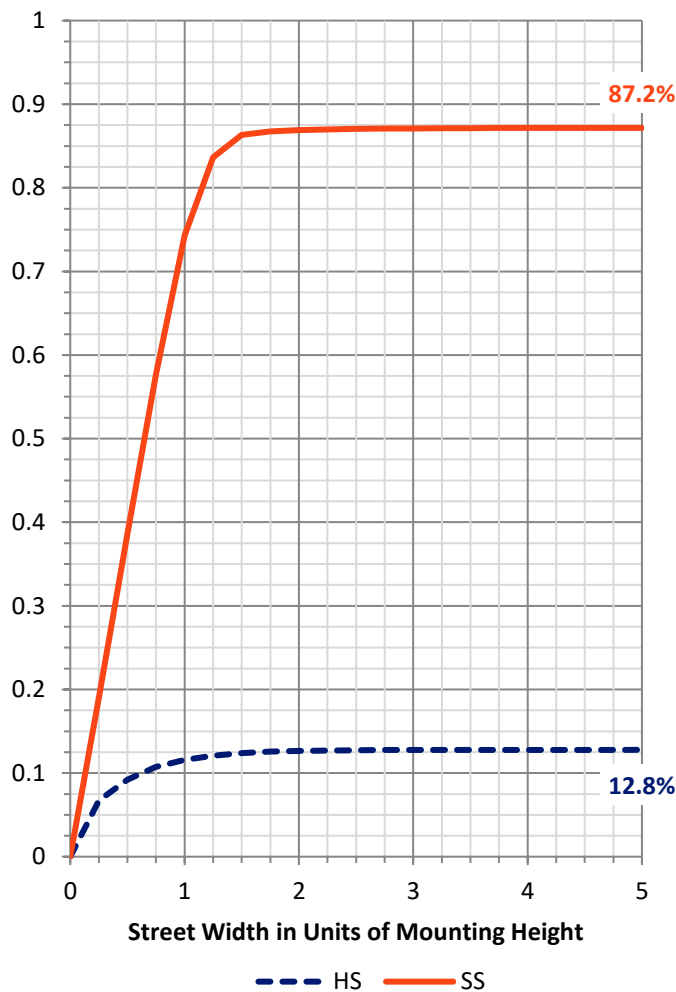
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	218.6	0.0	218.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	1482.8	0.0	1482.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	1701.4	0.0	1701.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	2.8
10°-20°	123.4	7.3
20°-30°	203.6	12.0
30°-40°	336.0	19.7
40°-50°	531.6	31.2
50°-60°	402.5	23.7
60°-70°	50.4	3.0
70°-80°	5.7	0.3
80°-90°	0.4	0.0
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°	1701.4	100.0
0°-180°	1701.4	100.0

Coefficient of Utilization



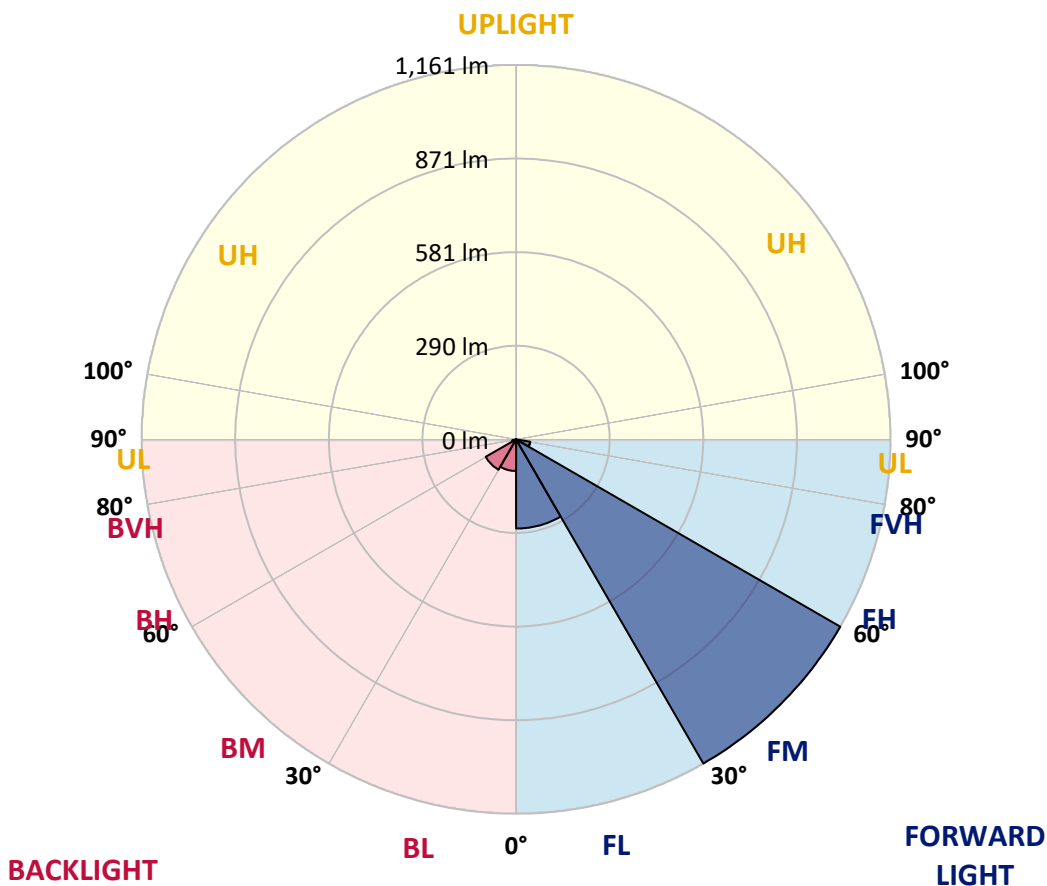
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.7	16.3			
FM (30°-60°)	1161.4	68.3			
FH (60°-80°)	44.5	2.6			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	98.1	5.8	B0/110		
BM (30°-60°)	108.7	6.4	B0/220		
BH (60°-80°)	11.5	0.7	B0/110		G0/110
BVH (80°-90°)	0.2	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°	50°	55°	65°	75°	85°
0°	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5
2.5°	587.4	592.1	590.8	584.6	578.0	573.3	566.0	563.7	547.2	535.7	523.6
5°	658.3	659.7	658.1	650.7	639.0	627.8	615.9	608.9	581.2	556.3	530.8
7.5°	675.3	673.5	676.6	680.3	678.7	673.8	661.2	653.6	620.6	579.9	541.4
10°	622.2	618.1	629.6	648.9	669.1	692.0	688.7	689.4	658.9	609.7	555.1
12.5°	551.7	550.1	558.7	581.0	620.7	672.5	685.0	705.9	694.1	641.9	570.8
15°	520.8	521.6	526.8	540.9	569.4	633.8	663.8	701.5	725.5	673.2	588.2
17.5°	525.5	528.4	528.2	532.9	550.3	601.9	636.9	687.8	749.8	709.1	608.1
20°	557.4	560.3	555.9	552.4	558.2	593.8	622.8	673.8	766.1	745.4	629.1
22.5°	605.2	608.6	598.2	588.0	584.3	607.1	628.2	668.2	778.6	778.6	647.9
25°	663.0	667.7	651.6	633.5	623.1	635.1	651.0	681.0	791.4	808.4	660.7
27.5°	727.6	727.8	714.0	693.6	674.2	675.6	685.2	709.8	805.5	840.5	670.8
30°	800.3	800.8	782.5	758.0	733.6	727.0	735.0	753.7	834.8	880.8	684.7
32.5°	894.2	896.5	870.3	834.3	802.6	790.1	794.8	814.4	881.4	931.3	705.6
35°	1021.2	1023.6	984.9	937.5	886.9	868.2	872.9	892.6	949.0	1003.1	738.9
37.5°	1146.5	1149.8	1110.6	1066.4	997.1	966.0	970.8	989.6	1050.3	1102.2	792.4
40°	1233.2	1237.5	1225.4	1195.6	1131.3	1090.5	1096.3	1103.1	1161.9	1220.7	861.7
42.5°	1278.8	1285.0	1290.2	1305.4	1271.6	1237.4	1227.5	1228.0	1275.4	1341.5	933.7
45°	1281.6	1287.6	1314.1	1372.9	1398.7	1391.6	1373.6	1361.4	1362.1	1422.0	978.8
47.5°	1192.5	1203.7	1253.4	1368.6	1465.4	1524.5	1515.4	1486.6	1398.5	1427.3	973.9
50°	981.5	992.5	1082.9	1248.6	1416.8	1577.6	1615.0	1576.3	1374.7	1360.8	923.9
52.5°	712.9	714.0	772.6	966.1	1219.9	1479.7	1567.7	1564.0	1338.4	1280.1	855.5
55°	338.6	334.6	400.5	545.3	843.7	1196.7	1345.2	1387.3	1286.9	1221.8	802.6
57.5°	98.6	100.6	129.9	212.8	422.0	764.8	921.3	999.7	1056.3	1004.5	622.5
60°	44.2	44.4	49.4	64.8	140.6	355.8	476.3	573.3	631.6	585.3	308.8
62.5°	32.1	32.2	34.2	36.6	47.8	120.5	178.6	238.1	242.4	158.7	78.2
65°	26.7	26.7	27.0	27.0	28.7	43.1	54.3	70.0	58.9	43.7	30.6
67.5°	21.5	21.7	22.0	22.0	21.5	21.5	23.3	25.6	27.4	33.8	28.2
70°	16.8	16.7	16.7	16.8	16.4	13.9	15.1	17.2	18.8	26.4	24.5
72.5°	13.1	13.3	13.1	12.5	11.3	8.3	8.9	11.2	12.0	16.5	16.5
75°	9.9	10.0	9.4	7.1	4.7	2.6	3.4	5.5	7.0	8.1	6.0
77.5°	1.3	1.3	1.0	1.0	0.8	1.0	1.0	1.3	1.9	1.9	1.5
80°	0.2	0.2	0.2	0.3	0.5	0.6	0.6	0.6	0.6	0.8	0.8
82.5°	0.2	0.2	0.2	0.2	0.5	0.5	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.2	0.3	0.5	0.5	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.2	0.3	0.5	0.5	0.5	0.6	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°	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5
2.5°	516.3	506.9	495.5	487.8	476.8	469.5	459.1	452.1	446.1	441.4	444.0
5°	516.4	501.5	478.4	458.6	437.1	417.3	396.1	379.4	364.4	357.6	361.3
7.5°	519.7	498.3	462.8	427.7	386.4	345.6	307.4	276.3	260.9	253.6	255.9
10°	526.0	496.8	445.5	387.2	320.2	264.4	227.4	206.3	197.7	193.2	194.0
12.5°	531.8	495.9	423.0	333.9	252.6	205.2	185.9	183.0	184.8	184.9	184.8
15°	539.7	494.1	395.1	279.2	202.1	177.3	177.8	182.0	186.2	187.5	187.2
17.5°	548.2	491.3	359.2	226.7	171.5	169.2	174.9	180.6	184.8	185.4	185.6
20°	556.9	485.7	318.2	185.1	157.2	163.1	169.4	173.6	176.7	177.6	178.0
22.5°	561.0	473.7	270.9	155.3	147.7	155.5	160.2	165.7	166.6	163.1	163.7
25°	558.9	453.4	224.8	135.2	138.1	145.9	152.9	150.1	146.1	143.5	144.3
27.5°	552.2	426.6	179.6	120.5	127.9	137.8	138.6	135.5	134.9	132.8	133.4
30°	545.1	395.6	144.5	108.7	117.6	127.9	125.5	126.6	126.8	124.4	125.2
32.5°	540.7	363.2	115.0	100.7	110.9	112.9	117.7	120.0	120.2	114.5	115.5
35°	542.2	331.3	97.3	94.2	104.8	104.3	111.1	112.4	103.0	95.2	96.0
37.5°	554.0	301.9	87.3	89.2	94.1	97.8	103.0	94.4	92.3	88.7	89.2
40°	576.0	276.8	81.3	86.2	86.8	92.8	84.9	86.0	86.2	83.9	84.4
42.5°	601.8	255.9	77.7	84.4	82.8	83.7	75.8	78.1	80.5	79.5	79.7
45°	614.7	235.5	74.7	78.2	78.7	69.5	67.7	70.1	73.2	73.7	73.8
47.5°	603.2	216.0	71.4	69.3	72.5	63.3	61.2	62.0	65.6	67.5	67.9
50°	568.1	193.7	66.6	61.4	59.6	56.8	54.9	55.1	59.1	62.5	63.2
52.5°	518.7	170.4	58.6	52.0	47.9	50.0	50.5	49.6	53.3	56.7	57.3
55°	470.8	141.2	46.5	42.3	38.5	43.1	44.4	43.1	44.2	46.5	46.6
57.5°	331.5	79.8	35.6	35.0	31.9	36.9	39.0	37.1	35.1	36.6	36.9
60°	153.7	41.8	27.4	27.4	26.6	31.7	35.3	32.6	28.8	29.5	30.0
62.5°	48.1	26.4	20.1	18.9	21.7	27.0	30.0	27.2	22.8	22.8	23.5
65°	27.2	22.7	15.9	14.6	17.7	21.7	23.5	20.6	16.7	16.4	16.4
67.5°	25.3	21.5	14.1	11.8	12.5	13.9	14.6	12.6	11.5	11.3	11.5
70°	20.9	18.0	11.3	8.1	7.6	7.4	7.8	7.3	7.0	7.1	7.6
72.5°	13.0	10.9	7.1	4.9	4.2	4.0	4.0	4.0	3.9	3.9	3.9
75°	4.7	4.0	3.2	2.4	2.1	1.9	1.9	2.1	1.9	1.8	1.6
77.5°	1.5	1.3	1.3	1.3	1.1	1.0	0.8	0.8	0.6	0.5	0.5
80°	0.8	0.8	0.8	0.8	0.6	0.6	0.5	0.3	0.2	0.2	0.0
82.5°	0.8	0.8	0.8	0.6	0.6	0.6	0.5	0.3	0.2	0.0	0.0
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.3	0.2	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.3	0.2	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)