

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: P628649

Luminaire Tested: GWS-SA1A-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-722-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1404.2 lumens
Efficiency: N/A
Efficacy: 71.3 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

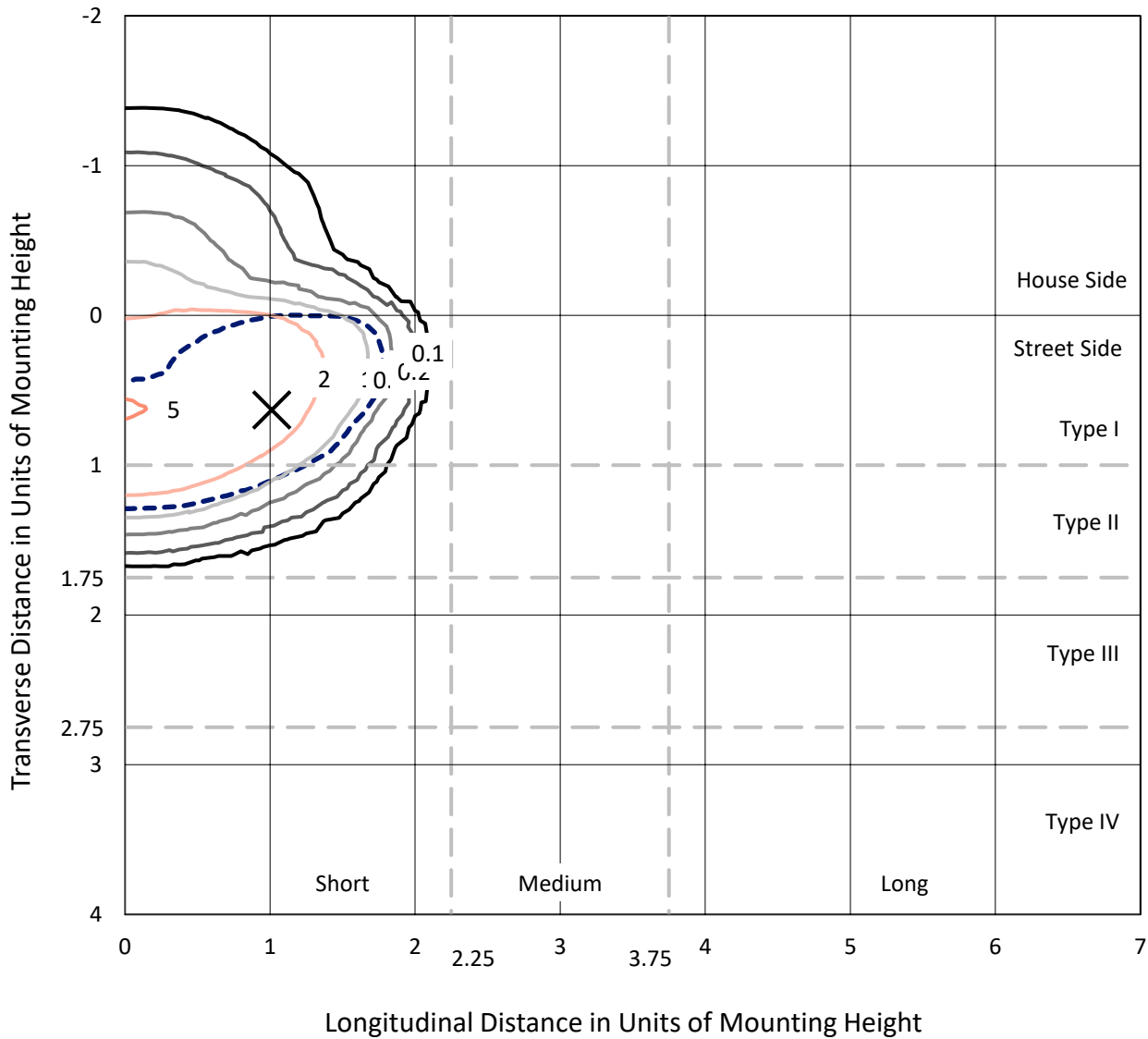
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

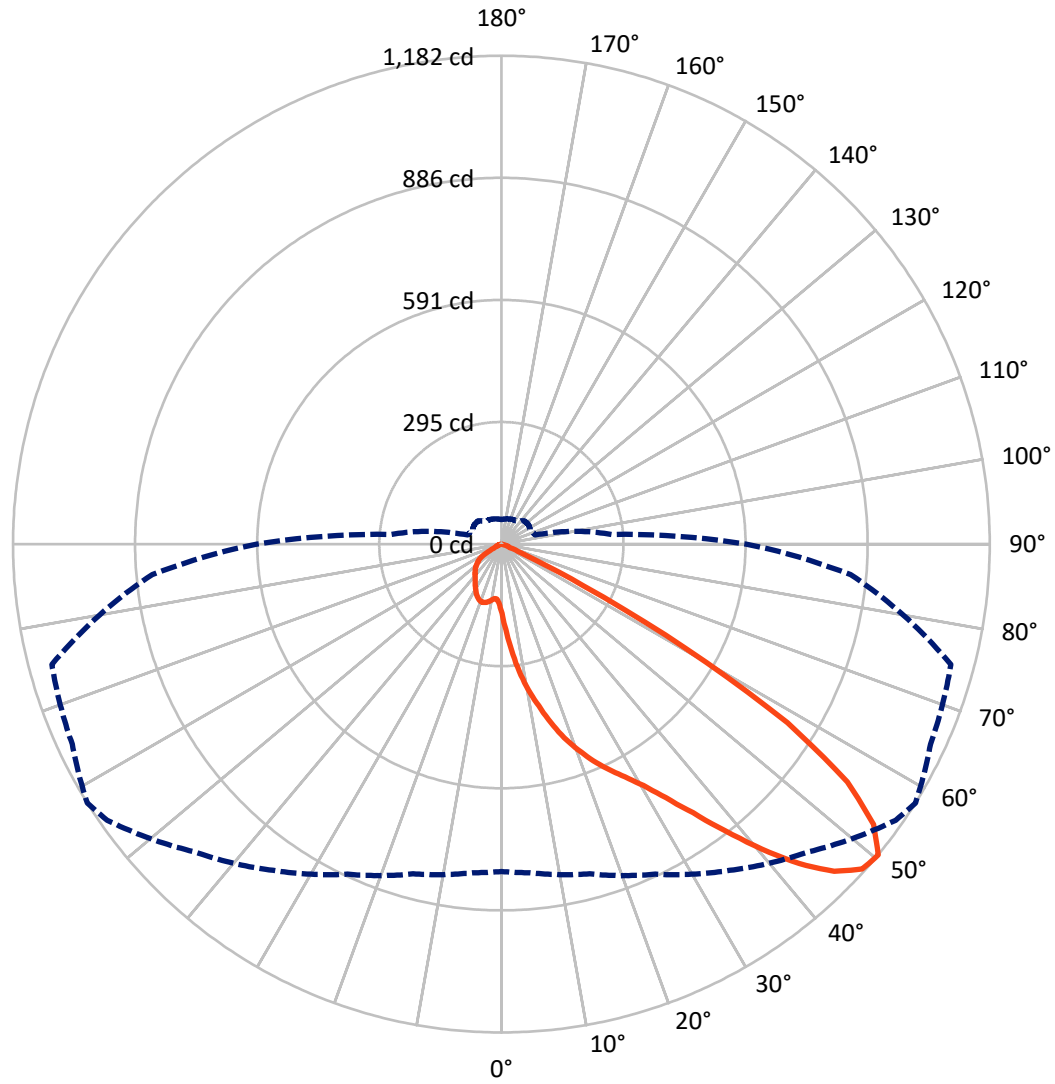
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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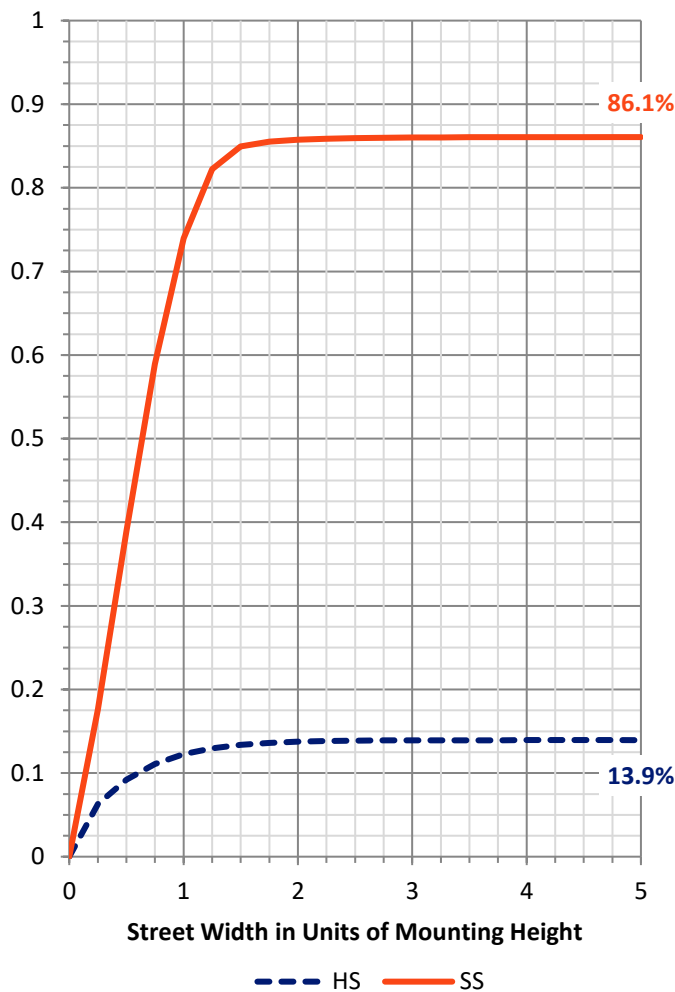
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	196.7	0.0	196.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	1207.5	0.0	1207.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	1404.2	0.0	1404.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.8	1.5
10°-20°	82.3	5.9
20°-30°	166.5	11.9
30°-40°	294.5	21.0
40°-50°	429.3	30.6
50°-60°	344.1	24.5
60°-70°	62.0	4.4
70°-80°	4.9	0.3
80°-90°	0.0	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°	1404.2	100.0
0°-180°	1404.2	100.0

Coefficient of Utilization



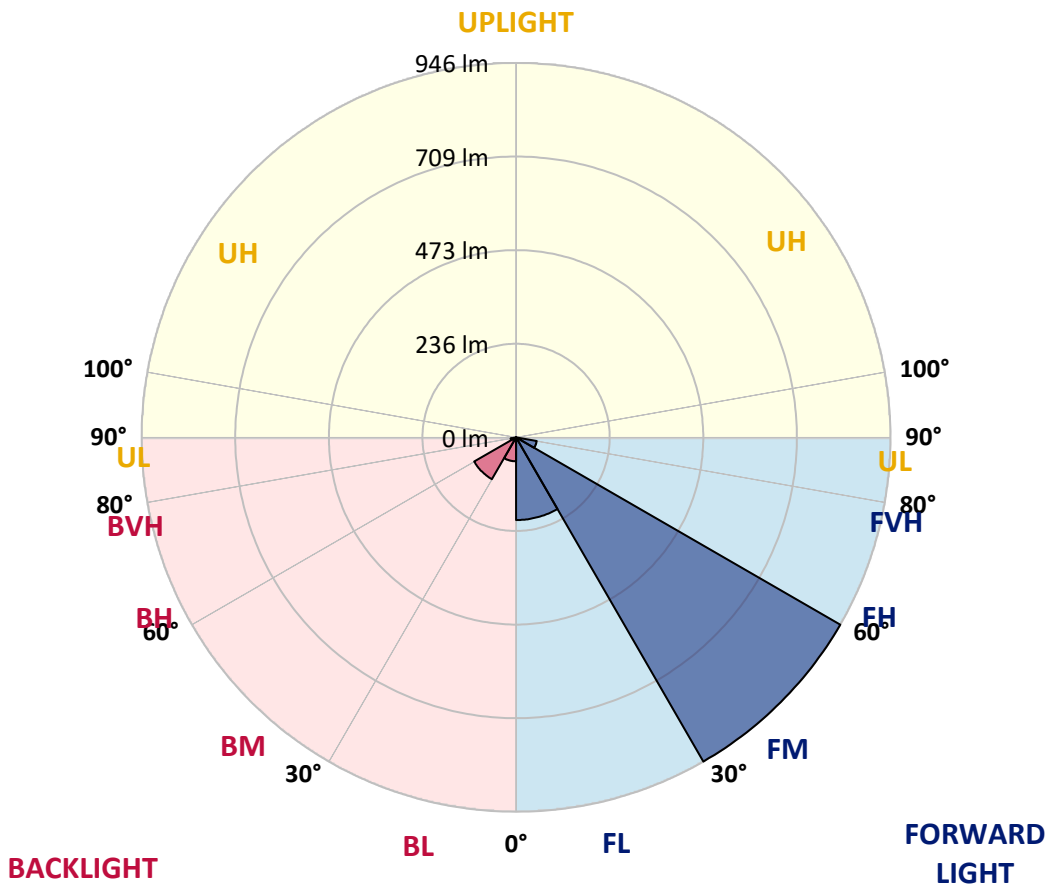
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	208.9	14.9			
FM (30°-60°)	945.7	67.3			
FH (60°-80°)	52.9	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	60.6	4.3	B0/110		
BM (30°-60°)	122.2	8.7	B0/220		
BH (60°-80°)	14.0	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	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°	58°	65°	75°	85°
0°	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7
2.5°	248.2	244.3	242.1	240.3	232.3	219.7	211.4	207.1	199.9	187.7	177.2
5°	323.9	321.0	315.8	312.2	302.0	284.1	265.6	258.3	241.9	214.4	189.8
7.5°	374.0	371.9	370.0	365.2	355.6	339.4	318.9	311.3	286.1	247.0	206.6
10°	412.6	411.0	408.7	408.6	401.1	386.5	366.5	358.6	331.3	282.5	226.4
12.5°	446.6	445.2	444.8	449.0	444.2	433.4	411.7	401.8	372.8	318.6	248.4
15°	469.9	469.6	471.5	479.8	482.5	477.5	459.3	448.7	415.3	355.0	272.5
17.5°	480.5	481.4	485.2	499.4	511.4	515.7	501.7	492.7	457.5	391.8	298.4
20°	498.7	498.4	500.6	514.1	528.9	543.9	539.7	532.0	500.2	430.7	327.0
22.5°	549.9	545.5	540.7	542.8	548.1	565.7	573.5	569.6	544.2	470.6	356.6
25°	628.6	624.1	608.6	593.6	583.7	591.6	602.3	604.2	587.9	511.6	387.6
27.5°	712.1	708.0	690.6	668.1	639.7	625.9	633.8	637.7	630.8	560.4	420.4
30°	790.3	784.9	765.8	737.9	705.0	683.8	674.8	677.5	681.6	618.2	459.0
32.5°	858.2	854.1	831.3	801.9	770.2	748.1	727.1	731.6	741.5	688.9	508.4
35°	915.7	913.6	889.4	860.1	826.6	815.4	797.4	798.3	808.2	774.4	568.7
37.5°	965.7	962.1	940.2	913.0	886.4	884.6	879.6	880.1	885.2	873.9	637.9
40°	997.2	993.9	978.3	961.5	942.6	942.9	968.5	970.5	964.6	971.7	711.0
42.5°	1009.1	1006.7	998.3	998.4	996.5	1005.3	1053.5	1057.1	1036.1	1048.4	773.5
45°	988.5	987.5	988.1	1009.7	1033.1	1060.4	1123.1	1129.4	1099.6	1099.3	822.3
47.5°	922.1	920.0	937.6	974.4	1028.6	1081.8	1165.1	1174.9	1144.1	1128.5	852.9
50°	792.1	798.1	825.9	881.1	963.6	1052.5	1164.6	1181.6	1145.7	1125.9	847.8
52.5°	573.8	572.6	633.4	709.4	809.7	958.8	1102.8	1127.6	1105.6	1100.8	836.4
55°	312.2	323.1	364.1	464.7	590.0	781.4	961.5	1015.5	1040.9	1091.7	857.0
57.5°	114.7	119.5	145.2	216.4	312.3	485.9	734.4	816.0	894.4	1066.1	853.5
60°	46.2	47.2	57.4	79.6	131.2	247.3	440.6	512.9	586.8	816.1	655.0
62.5°	33.6	34.8	38.9	46.5	66.4	108.1	190.0	220.9	241.5	404.2	322.7
65°	27.2	28.1	31.4	34.8	43.8	58.1	61.3	59.0	58.7	104.5	74.0
67.5°	22.5	23.4	25.8	28.2	31.5	29.0	21.0	22.1	18.0	17.9	14.6
70°	16.5	17.6	20.0	22.5	18.9	7.8	12.2	18.0	13.7	11.4	11.1
72.5°	12.5	13.2	15.5	14.7	5.6	3.0	8.1	13.1	10.5	8.4	8.3
75°	9.3	9.8	7.8	2.4	0.6	0.8	3.0	5.4	5.9	4.8	4.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.6	0.8	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7
2.5°	171.2	164.9	155.9	148.4	142.7	137.1	132.9	128.7	128.5	126.4	126.0
5°	178.4	167.0	150.5	138.6	131.4	127.0	124.0	122.5	121.8	121.0	120.7
7.5°	188.8	172.4	149.6	136.9	130.9	128.1	126.0	125.1	124.6	124.0	123.9
10°	201.5	180.2	152.9	140.1	134.8	132.1	129.9	128.5	127.8	126.7	126.4
12.5°	216.8	189.8	158.1	145.4	139.8	136.2	133.2	131.2	130.2	128.8	128.5
15°	233.3	200.2	164.0	150.2	143.6	138.9	135.1	132.1	130.2	128.5	128.1
17.5°	250.5	210.7	169.2	153.5	145.4	139.8	134.4	130.3	127.9	125.8	125.2
20°	269.7	221.5	172.7	154.1	144.8	137.4	131.1	126.0	123.6	120.7	120.1
22.5°	289.8	231.5	174.2	152.7	141.5	132.9	126.1	120.9	117.4	114.4	113.5
25°	309.3	240.6	173.4	149.0	136.5	126.6	119.7	114.3	110.5	107.5	106.8
27.5°	330.1	248.1	170.7	143.4	129.7	119.7	113.1	108.4	105.0	101.7	100.9
30°	353.3	255.0	166.4	136.6	121.8	112.6	107.5	104.4	100.6	97.2	96.1
32.5°	381.4	261.1	160.1	128.5	114.7	106.5	103.6	101.2	96.9	93.2	92.5
35°	413.5	266.2	152.1	120.1	107.8	102.6	102.0	98.8	93.1	88.9	88.0
37.5°	450.8	271.2	142.7	111.9	102.7	100.8	100.9	95.5	88.6	83.5	82.9
40°	490.9	276.1	132.1	104.7	98.1	99.7	98.4	90.7	79.4	74.5	73.9
42.5°	532.6	281.6	121.5	97.9	94.2	95.7	93.7	81.1	73.0	70.4	70.1
45°	570.3	288.0	109.9	91.1	90.2	89.8	86.5	73.4	70.0	68.2	68.0
47.5°	597.5	287.0	97.6	84.7	86.0	84.5	74.5	69.8	67.0	64.6	64.0
50°	592.5	268.6	84.8	77.5	80.6	79.3	67.0	65.6	63.1	60.5	59.6
52.5°	579.9	243.7	73.7	69.8	74.8	71.6	61.9	60.5	58.3	55.0	53.9
55°	586.7	220.3	65.0	63.7	68.8	59.3	56.2	54.1	51.7	48.1	47.6
57.5°	564.9	179.7	52.3	53.2	60.8	50.6	49.3	45.9	41.9	39.5	39.2
60°	391.0	96.6	32.7	33.8	44.0	42.5	44.1	41.1	36.2	33.9	33.5
62.5°	179.6	38.7	17.9	17.1	23.1	28.8	37.8	37.5	31.4	27.8	27.5
65°	43.5	17.7	12.8	12.0	13.1	17.3	24.6	29.6	25.4	21.2	20.7
67.5°	14.1	14.4	11.7	11.0	11.6	12.9	14.7	16.4	16.2	14.9	14.6
70°	11.3	13.1	10.8	9.9	9.9	10.4	9.9	8.0	6.9	7.5	7.8
72.5°	8.4	9.9	8.6	7.7	7.4	7.2	6.2	4.5	3.2	2.9	2.7
75°	5.0	5.6	5.3	4.5	4.2	3.8	3.0	2.0	1.1	0.8	0.5
77.5°	0.9	1.1	1.2	0.9	0.8	0.6	0.5	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)