

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: P629085

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 1341.9 lumens
Efficiency: N/A
Efficacy: 68.1 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

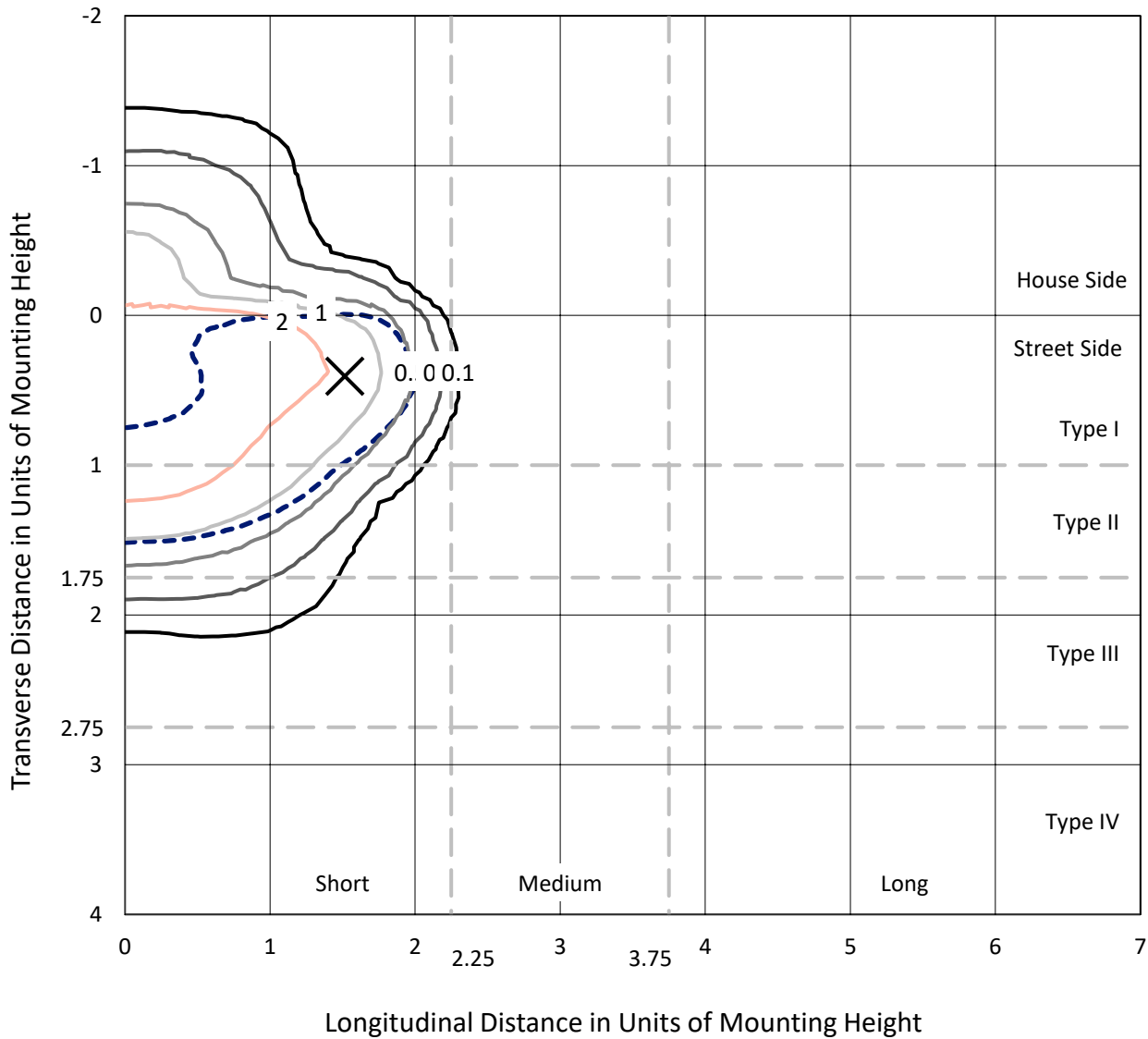
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

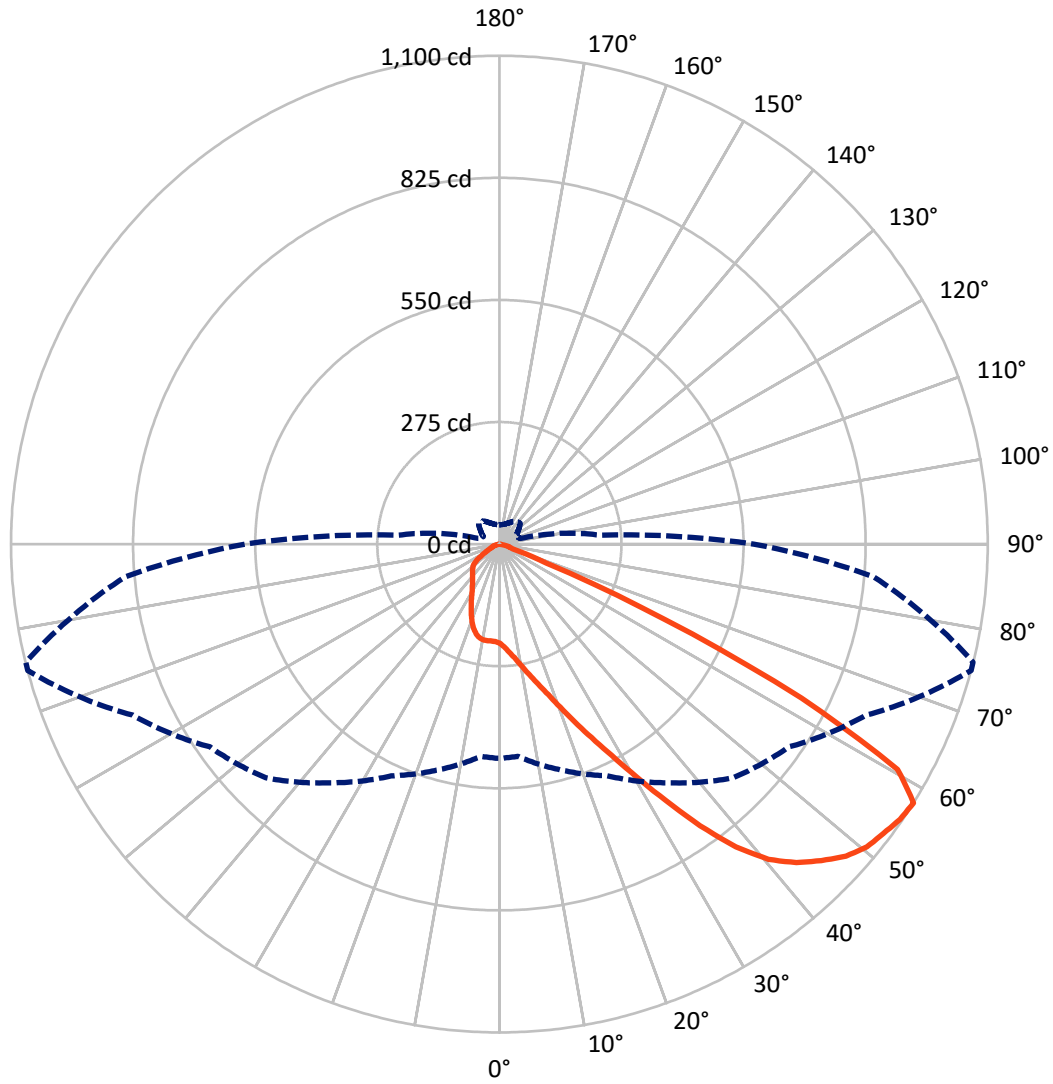
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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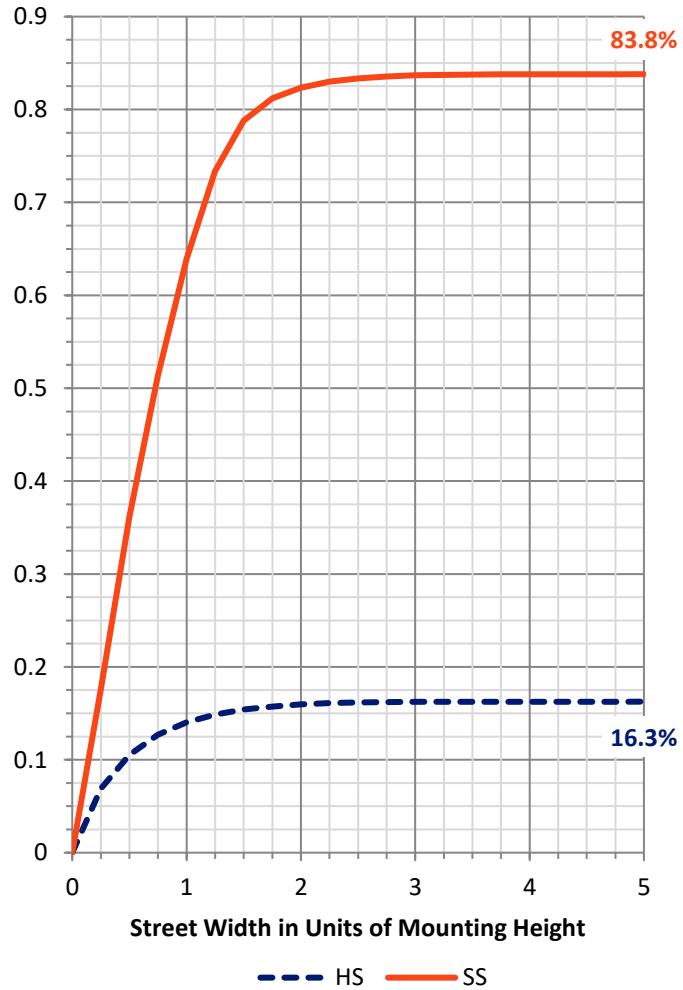
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	219.2	0.0	219.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	1122.7	0.0	1122.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	1341.9	0.0	1341.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.8	1.7
10°-20°	74.0	5.5
20°-30°	135.5	10.1
30°-40°	224.8	16.8
40°-50°	343.3	25.6
50°-60°	385.7	28.7
60°-70°	142.3	10.6
70°-80°	13.6	1.0
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°	1341.9	100.0
0°-180°	1341.9	100.0

Coefficient of Utilization



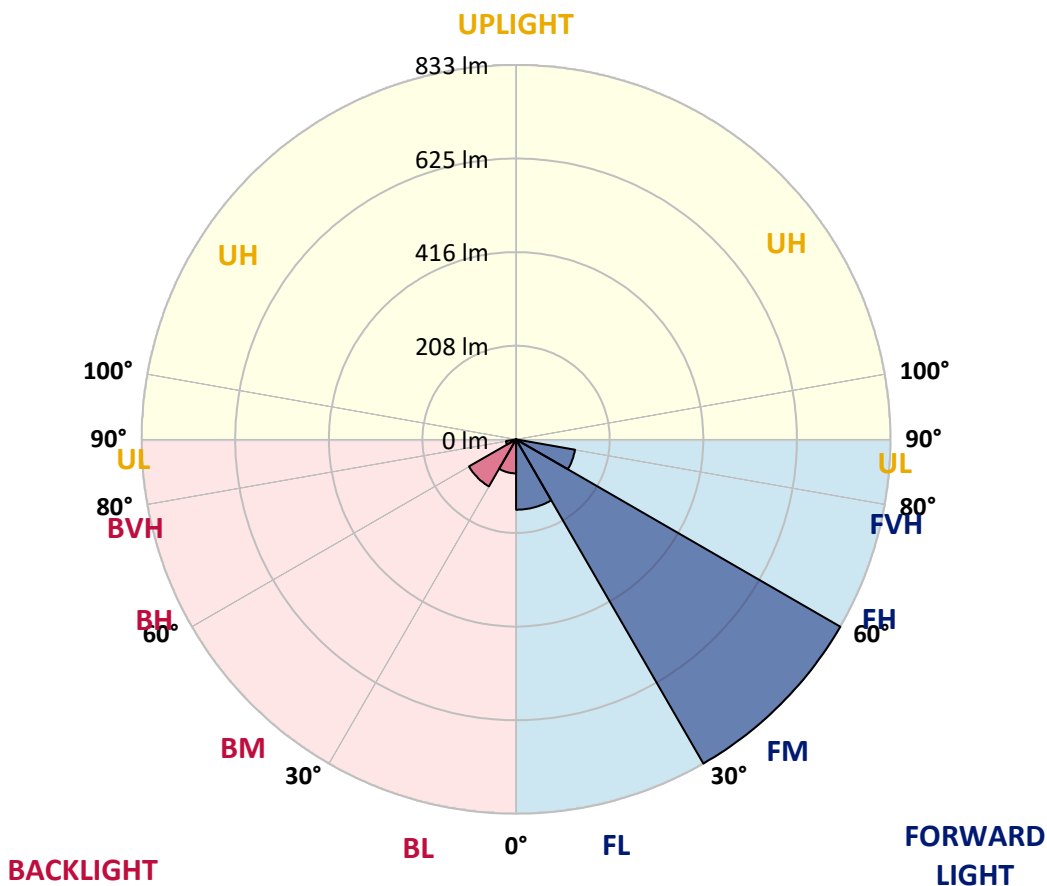
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.6	11.7			
FM (30°-60°)	833.0	62.1			
FH (60°-80°)	133.1	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	75.6	5.6	B0/110		
BM (30°-60°)	120.8	9.0	B0/220		
BH (60°-80°)	22.8	1.7	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°	65°	75°	76°	85°
0°	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8
2.5°	250.0	252.6	251.8	250.2	249.2	245.8	243.7	237.6	233.2	232.7	228.7
5°	281.6	281.1	280.5	278.5	276.9	271.6	265.3	254.9	245.7	244.5	236.0
7.5°	299.0	299.3	299.6	299.3	298.1	294.1	287.1	275.0	260.9	259.9	246.3
10°	306.1	306.7	308.3	311.4	314.2	313.9	309.8	297.3	280.0	278.4	260.1
12.5°	309.5	310.3	312.9	318.7	326.2	332.0	332.6	321.5	302.4	299.8	276.4
15°	314.2	315.0	318.2	325.8	336.7	348.2	355.6	348.5	327.1	324.4	294.4
17.5°	316.3	317.4	322.1	332.2	346.2	363.9	380.7	380.1	356.4	354.3	315.3
20°	320.3	321.1	325.4	336.2	353.2	378.6	407.0	417.2	392.2	389.2	340.6
22.5°	333.1	333.4	335.4	342.2	358.1	389.3	433.7	460.4	434.5	430.5	368.9
25°	354.0	353.9	354.7	355.8	367.5	400.2	459.4	509.2	482.9	478.6	401.0
27.5°	380.6	380.6	382.5	379.3	384.0	413.6	484.9	565.2	539.3	533.1	436.1
30°	411.8	411.7	416.2	411.0	412.5	434.8	512.2	626.2	607.3	599.7	476.6
32.5°	454.3	453.3	458.5	451.3	446.5	466.9	545.6	690.1	688.8	677.1	527.5
35°	507.9	506.2	507.9	500.9	492.2	511.8	589.3	753.7	779.1	766.8	588.0
37.5°	561.1	566.3	568.1	556.1	549.0	568.6	642.0	810.7	865.4	852.6	651.0
40°	624.0	622.4	628.5	615.1	610.5	632.2	693.5	853.1	933.8	921.6	707.1
42.5°	670.3	673.2	680.8	673.4	669.8	690.2	736.7	877.9	981.2	969.3	747.1
45°	725.8	728.0	730.9	724.7	721.0	741.1	768.0	888.8	1017.3	1004.4	773.9
47.5°	785.9	787.5	787.5	774.9	762.9	771.2	788.8	894.9	1050.5	1038.1	793.9
50°	829.0	829.8	836.9	828.0	802.0	789.2	798.4	900.9	1072.6	1060.9	800.3
52.5°	790.8	789.8	813.3	831.8	838.7	813.3	814.9	909.7	1083.3	1073.2	805.5
55°	665.9	664.3	697.3	742.2	803.6	836.1	834.8	914.8	1095.1	1088.9	824.3
57.5°	482.8	480.0	526.0	575.9	656.4	744.6	796.5	911.9	1100.3	1099.8	846.2
60°	290.2	287.9	331.3	383.8	446.0	534.7	620.7	816.9	1031.0	1031.9	789.3
62.5°	178.6	180.7	219.9	246.6	269.8	296.5	346.2	549.5	763.7	770.1	554.7
65°	120.2	121.8	158.1	191.7	191.7	156.8	134.6	262.7	407.5	396.8	262.4
67.5°	80.6	82.4	111.1	150.4	156.1	109.3	54.6	78.4	113.5	110.1	64.9
70°	47.5	49.4	74.0	103.2	113.7	76.1	36.4	33.2	32.2	31.3	25.3
72.5°	21.2	22.0	37.7	52.5	47.9	32.1	25.7	26.6	25.1	24.6	20.6
75°	6.5	6.8	9.7	11.3	11.5	11.5	15.5	20.9	19.8	19.9	15.9
77.5°	1.6	1.6	2.6	2.4	1.3	1.1	2.9	4.7	4.9	4.4	3.2
80°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
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°	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8
2.5°	226.9	222.7	219.9	216.0	213.3	210.4	207.8	205.7	204.5	204.2	204.4
5°	232.1	225.4	219.0	211.5	206.3	201.5	197.6	194.5	193.0	192.6	192.6
7.5°	240.0	230.8	219.3	207.6	198.9	191.3	186.7	183.3	182.0	181.7	180.7
10°	250.4	237.7	218.8	200.7	188.3	180.4	177.2	176.2	176.7	176.8	176.7
12.5°	262.8	245.0	215.7	190.4	177.2	172.3	172.6	175.2	178.1	179.6	179.9
15°	276.1	251.7	208.7	178.3	167.6	167.5	172.1	178.1	183.8	186.2	186.9
17.5°	291.0	257.0	198.1	165.3	159.4	164.1	172.5	181.7	189.3	193.4	194.2
20°	307.4	261.4	184.5	153.2	152.1	160.5	172.1	183.5	192.9	197.4	198.2
22.5°	324.4	264.5	168.7	142.0	145.4	156.4	169.1	180.1	189.0	194.2	194.8
25°	343.8	264.8	152.7	132.6	139.3	150.9	161.6	170.7	178.1	182.7	183.2
27.5°	360.8	260.9	138.5	125.0	133.6	144.1	151.3	156.3	161.5	164.1	164.2
30°	380.4	254.1	125.0	118.9	127.8	135.7	139.3	140.4	140.9	141.4	140.7
32.5°	403.7	245.8	115.0	112.9	121.1	126.5	127.5	125.2	122.4	118.5	117.6
35°	432.4	238.4	106.7	107.0	113.8	117.1	116.3	111.4	106.1	101.4	100.6
37.5°	463.5	232.1	100.4	101.4	105.9	108.2	105.8	100.4	98.0	93.9	94.1
40°	491.0	226.9	94.7	95.7	97.8	99.9	96.0	92.5	97.0	96.7	97.0
42.5°	510.6	222.5	89.9	89.4	90.9	92.3	89.4	87.6	95.2	93.1	94.3
45°	522.1	218.5	85.8	82.9	85.2	87.8	85.8	83.6	86.2	76.4	75.6
47.5°	529.9	216.2	82.3	76.6	80.6	85.2	81.1	75.6	71.9	63.5	62.8
50°	530.7	215.1	78.1	70.1	75.3	80.2	75.5	67.9	62.5	58.8	58.3
52.5°	534.9	217.3	72.2	61.9	67.5	75.3	72.1	64.5	57.2	53.9	53.3
55°	553.7	226.9	62.5	50.5	58.8	71.6	69.3	57.5	50.5	48.6	48.1
57.5°	573.1	228.8	49.2	40.0	51.2	66.2	63.3	53.0	46.2	43.9	43.4
60°	524.1	188.5	36.9	33.0	45.2	61.2	58.6	50.2	42.3	39.5	39.0
62.5°	344.3	101.9	29.3	28.0	38.1	51.8	53.4	45.3	37.7	34.8	34.7
65°	158.7	47.3	22.5	22.2	29.8	41.3	46.0	39.7	31.9	29.3	29.3
67.5°	43.2	23.5	17.7	16.4	20.2	27.7	33.5	29.6	22.7	19.6	19.4
70°	21.5	18.9	15.9	14.1	14.6	17.2	19.8	16.5	11.5	9.4	9.2
72.5°	17.7	15.5	13.4	12.0	11.0	10.5	10.2	8.3	5.3	4.0	3.9
75°	13.1	11.2	9.6	7.8	6.6	6.2	5.5	4.0	2.3	1.3	1.1
77.5°	2.9	2.8	2.6	1.9	1.8	1.5	1.1	0.8	0.3	0.0	0.0
80°	0.2	0.2	0.2	0.2	0.2	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)