

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: P629096

Luminaire Tested: GWS-SA1A-830-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-830-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2260.6 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

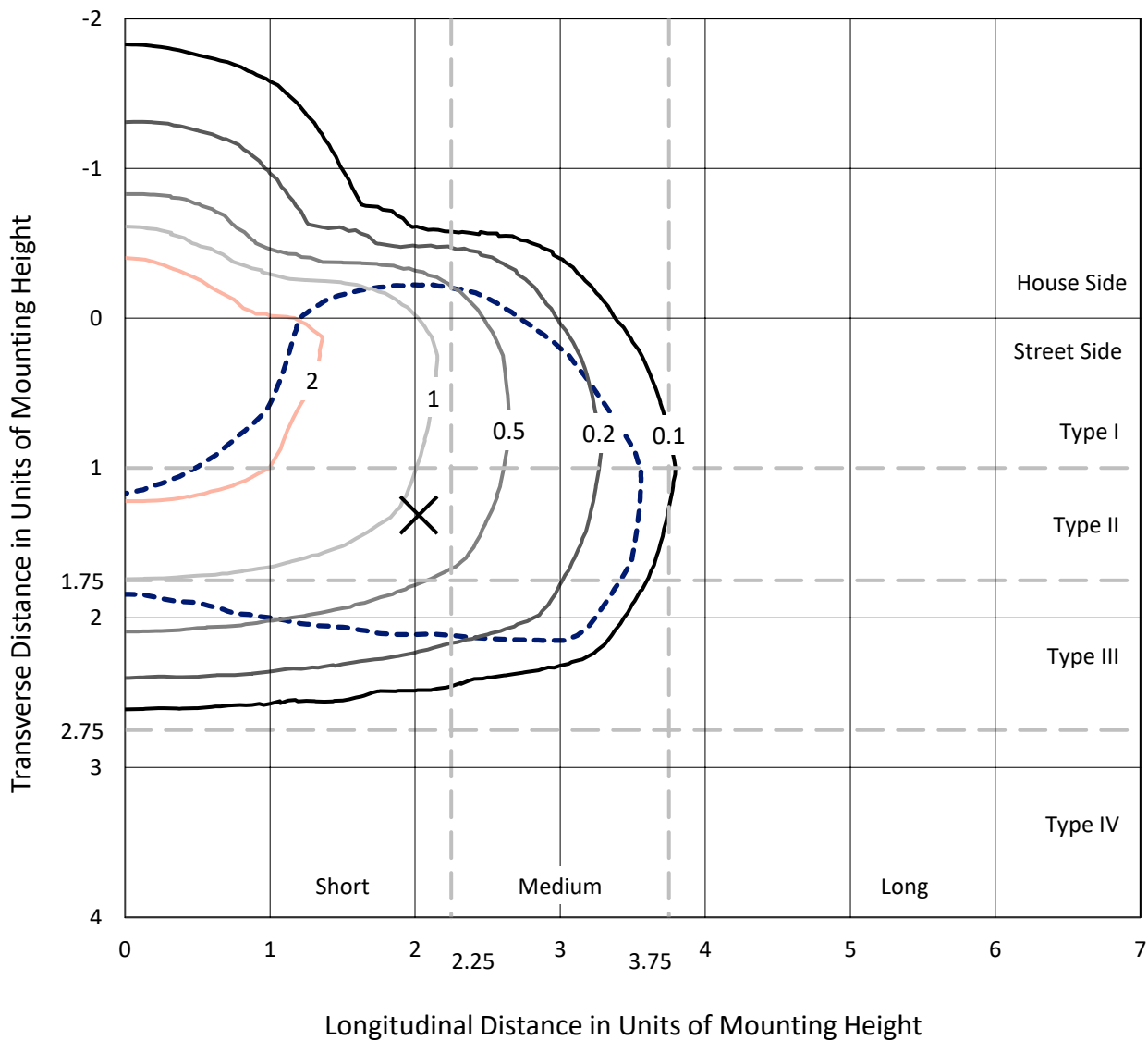
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

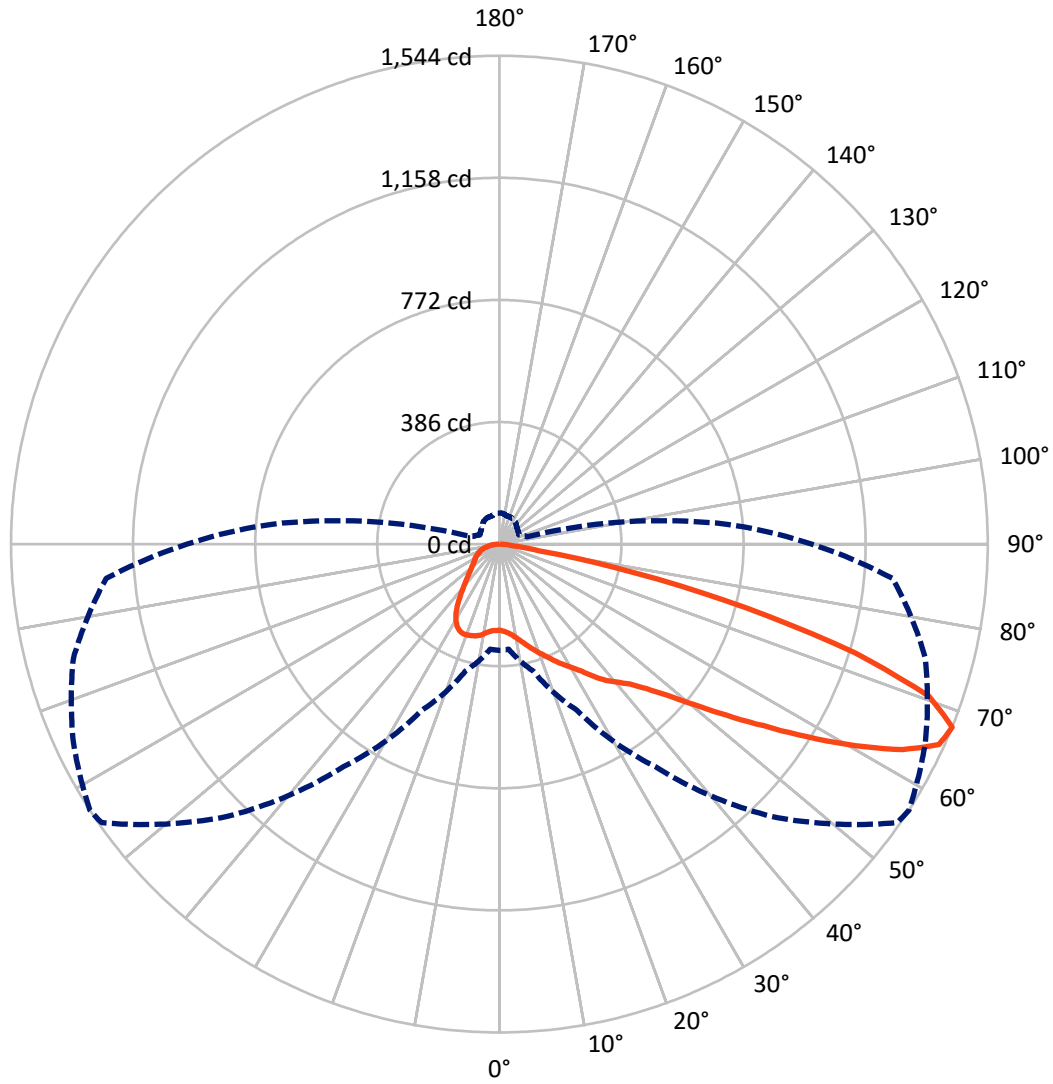
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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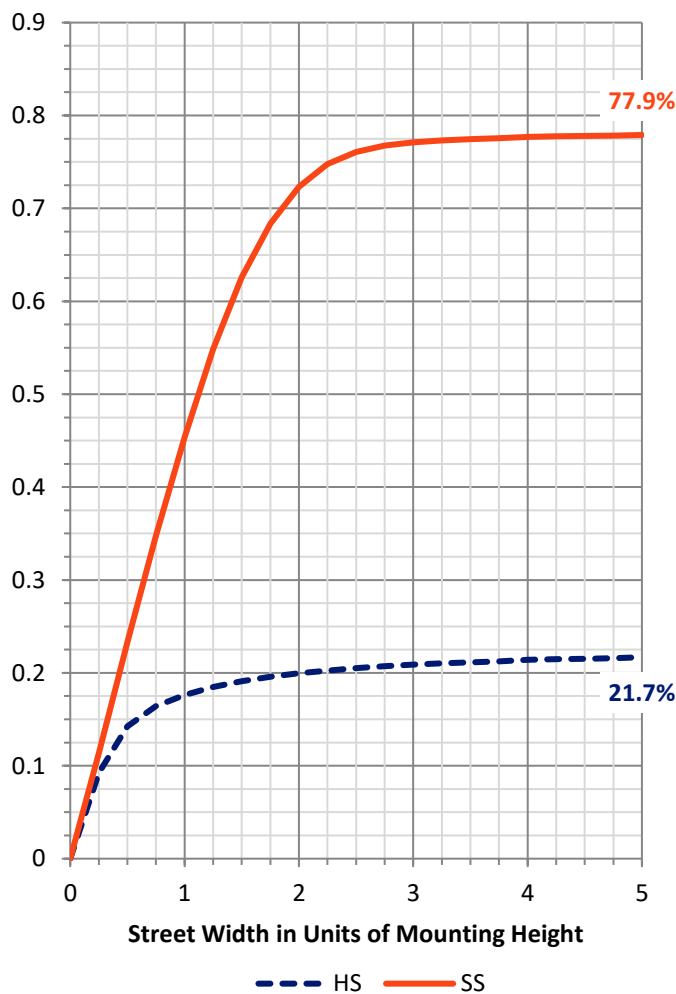
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	497.0	0.0	497.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	1763.6	0.0	1763.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	2260.6	0.0	2260.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	1.2
10°-20°	89.4	4.0
20°-30°	159.4	7.1
30°-40°	231.8	10.3
40°-50°	335.5	14.8
50°-60°	525.1	23.2
60°-70°	612.5	27.1
70°-80°	255.7	11.3
80°-90°	24.1	1.1
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°	2260.6	100.0
0°-180°	2260.6	100.0

Coefficient of Utilization



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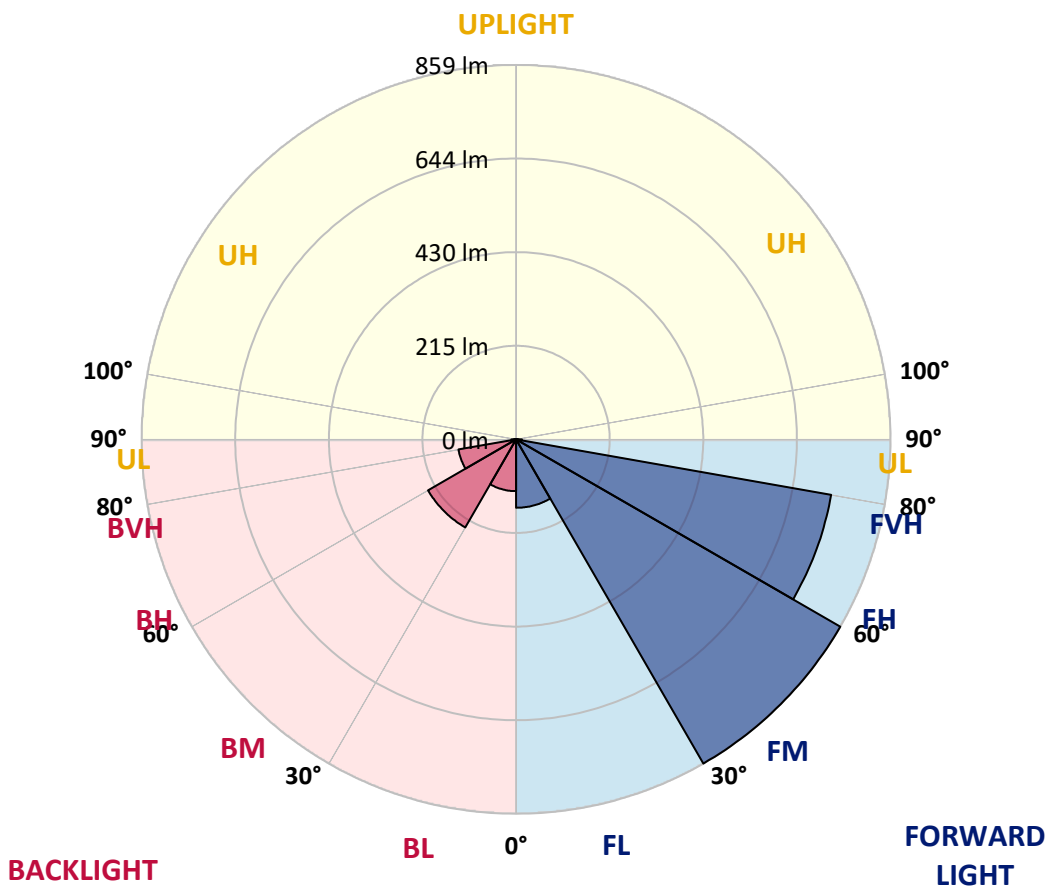
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	157.0	6.9			
FM (30°-60°)	859.1	38.0			
FH (60°-80°)	734.1	32.5			G1/1800
FVH (80°-90°)	13.4	0.6			G1/100
BL (0°-30°)	118.9	5.3	B1/500		
BM (30°-60°)	233.3	10.3	B1/1000		
BH (60°-80°)	134.1	5.9	B1/500		G1/500
BVH (80°-90°)	10.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4
2.5°	276.3	275.9	275.8	276.8	276.4	276.3	276.3	276.1	275.8	274.5	272.7
5°	283.9	283.2	282.6	283.4	282.8	282.1	281.9	281.6	280.5	278.5	275.8
7.5°	291.8	291.2	291.3	291.8	291.3	291.0	290.5	290.2	288.4	285.3	281.6
10°	303.0	303.0	303.3	303.8	304.0	303.5	302.5	302.0	299.9	296.0	290.8
12.5°	319.2	318.9	318.9	318.5	319.0	318.5	317.6	316.8	314.2	309.1	301.7
15°	340.6	339.3	338.1	336.0	335.4	333.6	333.9	333.4	331.0	324.2	314.8
17.5°	363.4	363.2	361.5	357.2	353.0	350.1	350.8	350.6	349.3	340.1	328.1
20°	383.5	384.3	382.7	379.4	373.8	368.3	367.9	368.7	367.1	357.9	341.2
22.5°	406.0	405.3	403.7	399.5	395.3	389.5	387.5	386.9	386.2	375.7	354.7
25°	427.4	429.3	427.2	423.3	416.8	410.5	408.9	409.6	407.8	393.8	369.1
27.5°	454.4	455.2	453.9	448.6	443.1	434.2	431.1	431.1	430.4	410.8	380.4
30°	483.2	485.5	483.2	478.9	473.2	460.4	453.8	453.1	451.2	428.3	393.7
32.5°	512.2	513.8	512.2	508.0	501.5	490.4	480.8	479.3	476.8	447.4	407.3
35°	538.0	539.4	539.1	540.1	534.7	520.6	514.8	514.2	507.4	472.4	425.7
37.5°	566.2	567.9	565.5	567.4	565.3	552.1	550.3	547.0	537.3	495.9	445.2
40°	598.2	599.8	595.9	596.8	594.3	586.9	577.8	573.4	559.0	521.3	475.8
42.5°	632.5	636.3	638.1	636.6	630.9	626.7	610.8	605.3	593.4	567.1	526.2
45°	682.3	687.8	690.4	686.6	684.2	678.2	658.8	652.1	645.8	631.7	596.4
47.5°	735.9	740.9	749.1	750.8	752.7	748.2	720.8	714.3	715.5	713.8	682.9
50°	778.6	782.8	801.5	821.4	837.9	839.2	804.2	797.2	803.4	808.6	787.0
52.5°	809.7	813.4	838.1	879.2	916.6	944.3	906.6	898.6	903.6	915.3	905.4
55°	835.0	840.2	865.9	929.1	1004.7	1048.4	1024.3	1014.2	1012.1	1026.6	1032.2
57.5°	848.3	849.9	886.0	968.1	1069.3	1150.6	1161.1	1149.8	1129.7	1137.6	1167.1
60°	818.0	820.7	870.1	978.1	1120.3	1252.0	1304.8	1295.4	1252.6	1257.0	1289.5
62.5°	734.2	738.1	797.6	930.4	1124.5	1319.7	1437.4	1431.4	1374.1	1350.4	1360.2
65°	589.0	590.3	651.8	812.1	1040.8	1328.1	1529.9	1528.4	1458.9	1403.6	1361.9
67.5°	335.9	333.6	415.9	579.3	858.9	1218.6	1535.9	1544.4	1486.5	1394.8	1248.6
70°	145.6	145.9	183.8	285.8	555.9	984.9	1426.5	1441.3	1406.8	1249.2	993.4
72.5°	67.4	68.3	84.7	123.7	237.4	611.0	1163.2	1176.5	1146.9	999.8	722.7
75°	47.6	48.4	56.5	70.9	109.1	238.1	778.1	806.0	820.4	747.8	476.3
77.5°	36.1	37.2	41.3	49.2	67.4	84.4	372.3	438.7	522.6	465.3	245.3
80°	23.0	23.0	27.4	32.9	41.1	43.9	107.5	127.4	255.7	191.7	96.4
82.5°	15.5	16.0	18.6	20.9	23.6	24.9	46.2	49.2	73.8	65.3	39.7
85°	8.3	8.6	9.7	9.6	11.3	9.9	19.4	19.3	27.0	29.6	15.1
87.5°	0.0	0.0	0.2	0.2	0.3	0.5	2.1	2.3	5.7	9.1	5.0
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°	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4
2.5°	273.7	271.7	272.7	272.4	273.4	273.4	271.6	271.1	271.3	269.3	268.7
5°	276.1	273.8	274.3	273.7	274.7	275.5	274.7	274.7	275.6	274.2	273.4
7.5°	281.6	279.0	279.0	278.2	279.4	280.0	279.4	280.3	282.1	280.6	279.8
10°	290.4	287.3	287.4	286.5	287.0	286.6	284.0	283.2	283.7	282.4	281.8
12.5°	301.7	297.5	297.5	295.5	294.4	291.0	285.7	283.7	284.0	282.9	282.4
15°	312.5	308.7	307.9	304.0	298.8	292.5	287.6	286.3	286.6	285.5	284.7
17.5°	325.3	320.3	317.4	310.3	300.7	294.2	289.4	286.3	283.7	281.1	280.5
20°	337.2	330.8	325.5	314.5	302.8	293.9	284.9	277.2	270.9	267.5	266.7
22.5°	349.3	341.2	331.8	317.4	302.7	288.1	271.4	259.9	250.5	245.5	246.5
25°	360.8	350.6	337.8	320.2	297.5	275.1	252.5	235.3	224.6	220.7	219.6
27.5°	370.4	357.7	343.3	318.9	286.8	256.5	226.6	207.4	197.1	192.7	191.6
30°	381.1	366.8	351.3	312.9	270.0	230.4	197.2	181.7	174.2	170.0	170.2
32.5°	393.4	378.5	362.4	301.4	248.4	202.3	173.1	162.4	156.4	152.2	151.6
35°	409.9	395.1	369.9	284.0	221.1	176.4	156.6	147.9	140.4	134.9	133.8
37.5°	430.3	420.2	370.7	260.9	191.7	158.5	144.8	135.4	126.3	119.0	118.2
40°	465.3	453.8	364.0	231.9	166.8	147.0	134.9	124.0	113.5	105.4	104.3
42.5°	515.1	491.5	349.8	199.2	148.0	138.0	125.5	111.7	101.1	95.4	94.6
45°	578.6	533.6	328.4	168.4	134.1	129.1	115.6	101.2	95.5	91.5	90.7
47.5°	656.4	582.7	303.8	144.5	123.2	121.0	105.6	97.7	92.6	89.2	88.4
50°	749.3	645.2	283.6	125.7	113.5	111.6	102.3	95.5	91.5	88.7	88.1
52.5°	855.4	714.7	273.7	112.2	105.1	103.2	101.2	95.1	91.7	89.6	88.7
55°	965.5	787.8	264.5	101.9	98.0	99.1	101.4	96.7	94.1	91.3	90.5
57.5°	1071.9	856.5	241.8	93.8	92.8	97.2	102.2	98.3	95.2	92.5	91.5
60°	1145.3	894.1	203.4	87.3	88.9	94.7	100.1	95.9	92.0	90.8	90.4
62.5°	1165.0	889.5	157.9	80.6	84.2	89.4	94.6	91.8	87.8	89.6	89.7
65°	1118.9	841.0	118.5	74.2	78.1	82.4	88.9	87.8	86.3	91.2	91.3
67.5°	988.2	721.6	90.4	68.5	71.7	77.1	87.1	91.8	92.1	98.3	97.7
70°	747.7	539.1	70.8	63.2	66.9	77.1	92.8	94.9	91.0	96.7	95.4
72.5°	516.9	355.8	60.2	58.5	60.9	73.5	92.6	92.6	88.4	88.4	86.0
75°	321.1	209.2	52.5	52.5	52.5	64.3	90.0	85.3	77.9	74.5	72.6
77.5°	158.5	101.7	44.0	45.7	43.9	53.8	73.5	69.8	65.3	61.7	60.4
80°	67.7	50.8	35.6	37.4	35.3	40.5	58.3	57.5	53.1	48.4	47.0
82.5°	31.1	26.2	28.5	29.3	25.7	30.4	42.6	42.6	40.2	33.7	31.3
85°	13.3	13.9	19.8	19.8	16.2	17.2	22.8	21.7	19.4	15.9	14.6
87.5°	4.5	6.8	10.0	8.7	3.4	1.5	0.8	0.3	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)