

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: P628824

Luminaire Tested: GWS-SA1A-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2195.7 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

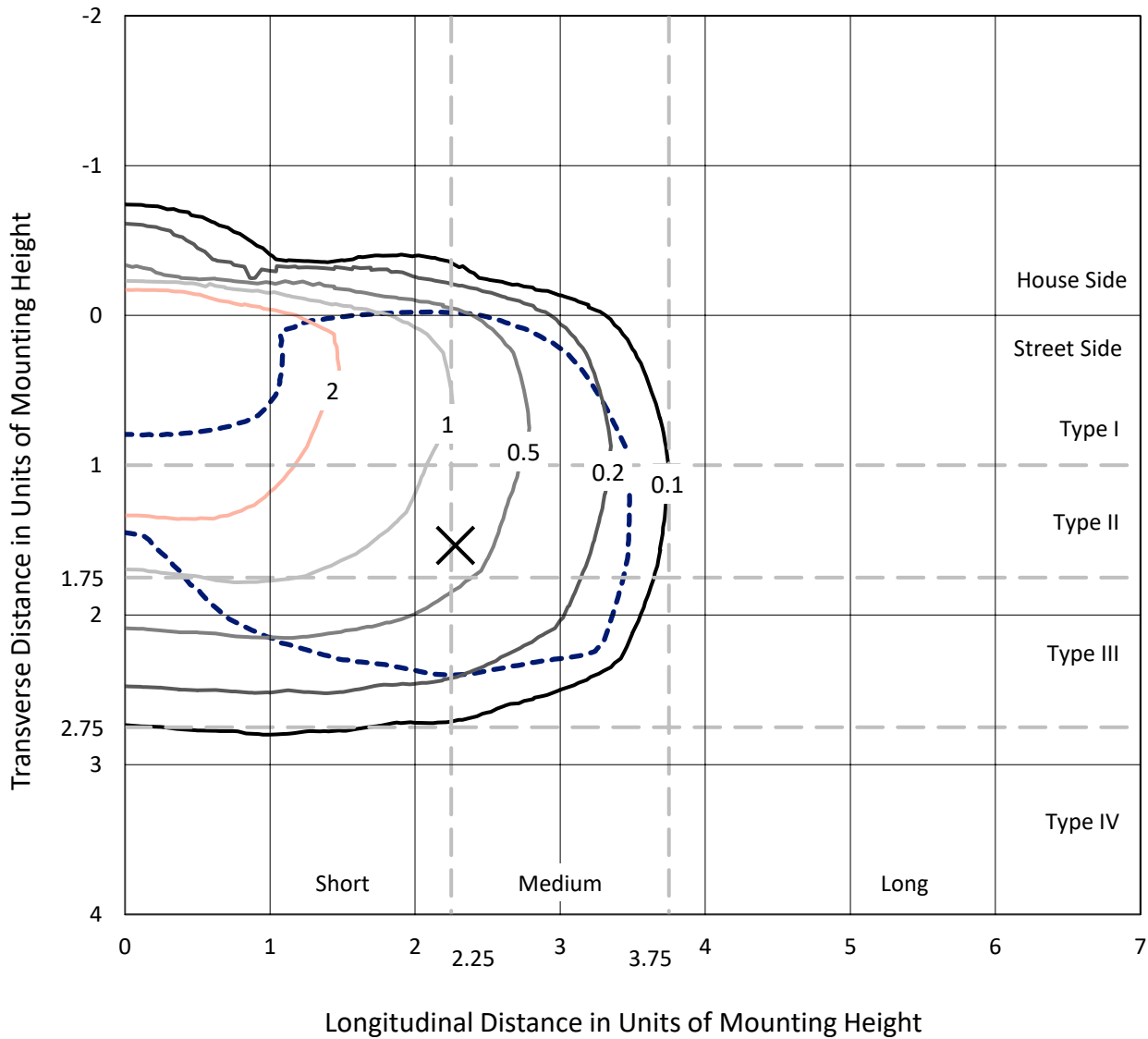
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

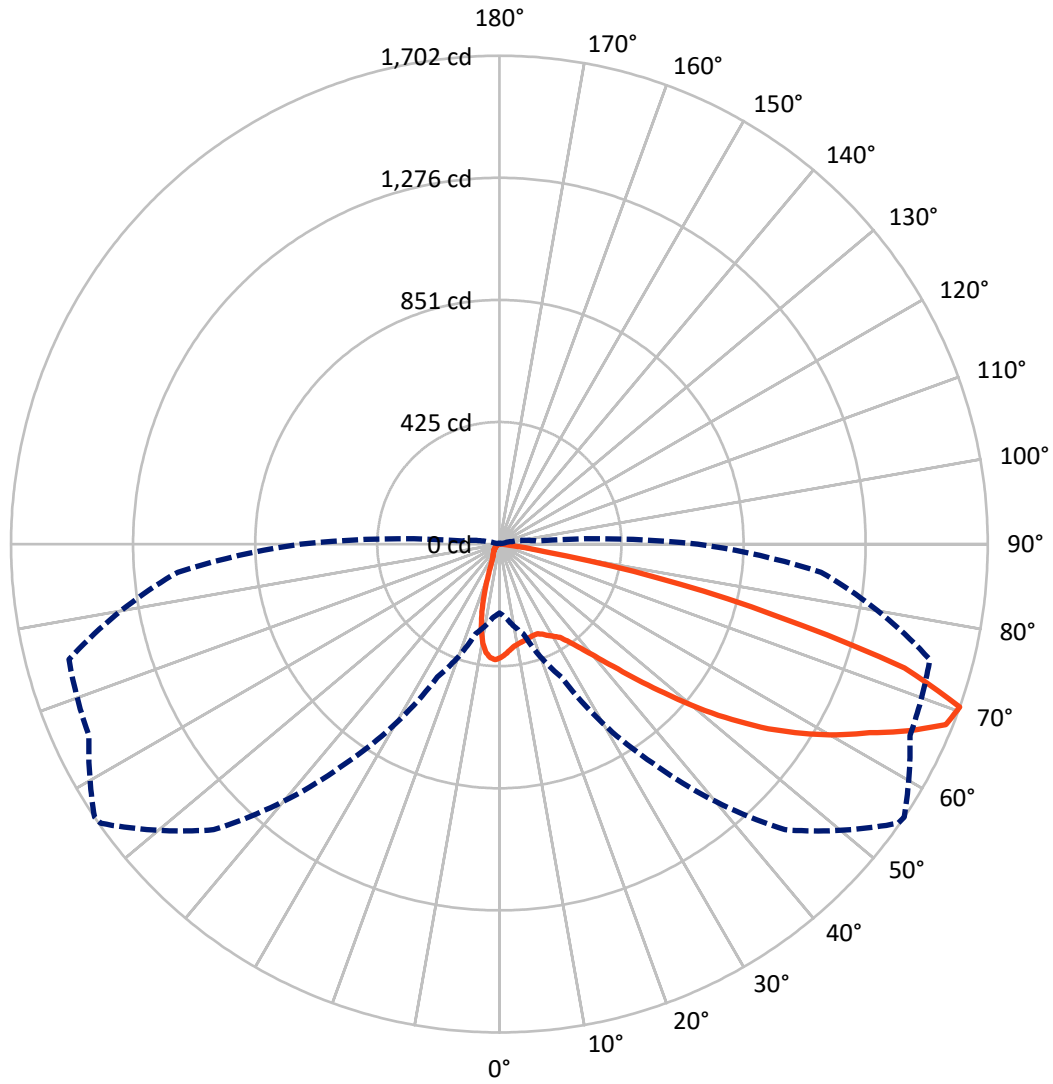
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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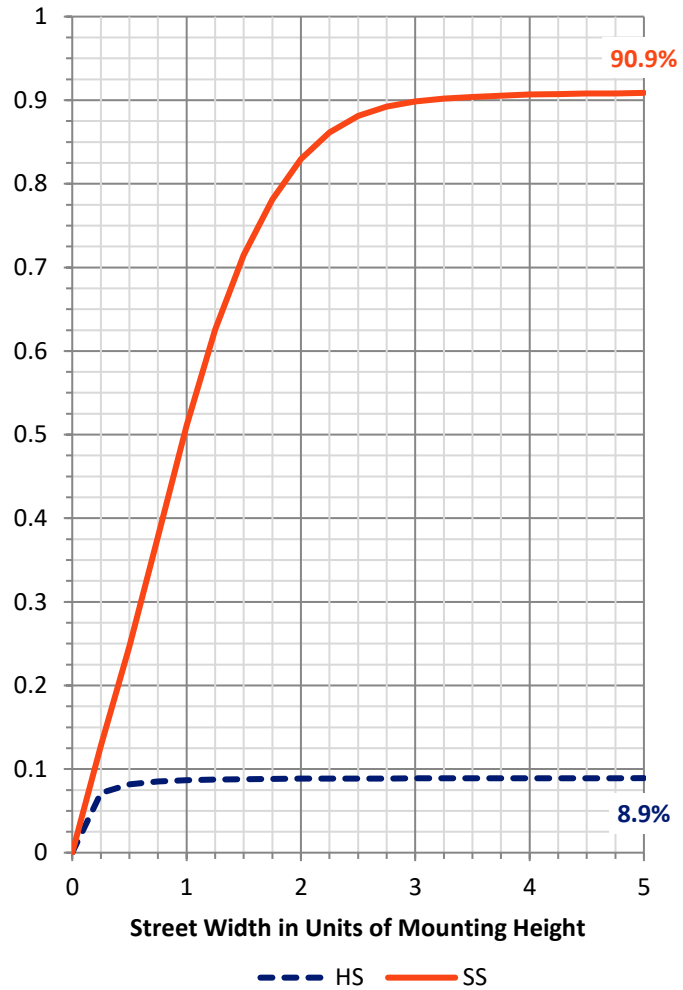
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	197.2	0.0	197.2
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	1998.5	0.0	1998.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	2195.7	0.0	2195.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	1.5
10°-20°	76.5	3.5
20°-30°	121.1	5.5
30°-40°	208.8	9.5
40°-50°	352.7	16.1
50°-60°	518.2	23.6
60°-70°	614.3	28.0
70°-80°	262.0	11.9
80°-90°	8.2	0.4
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°	2195.7	100.0
0°-180°	2195.7	100.0

Coefficient of Utilization



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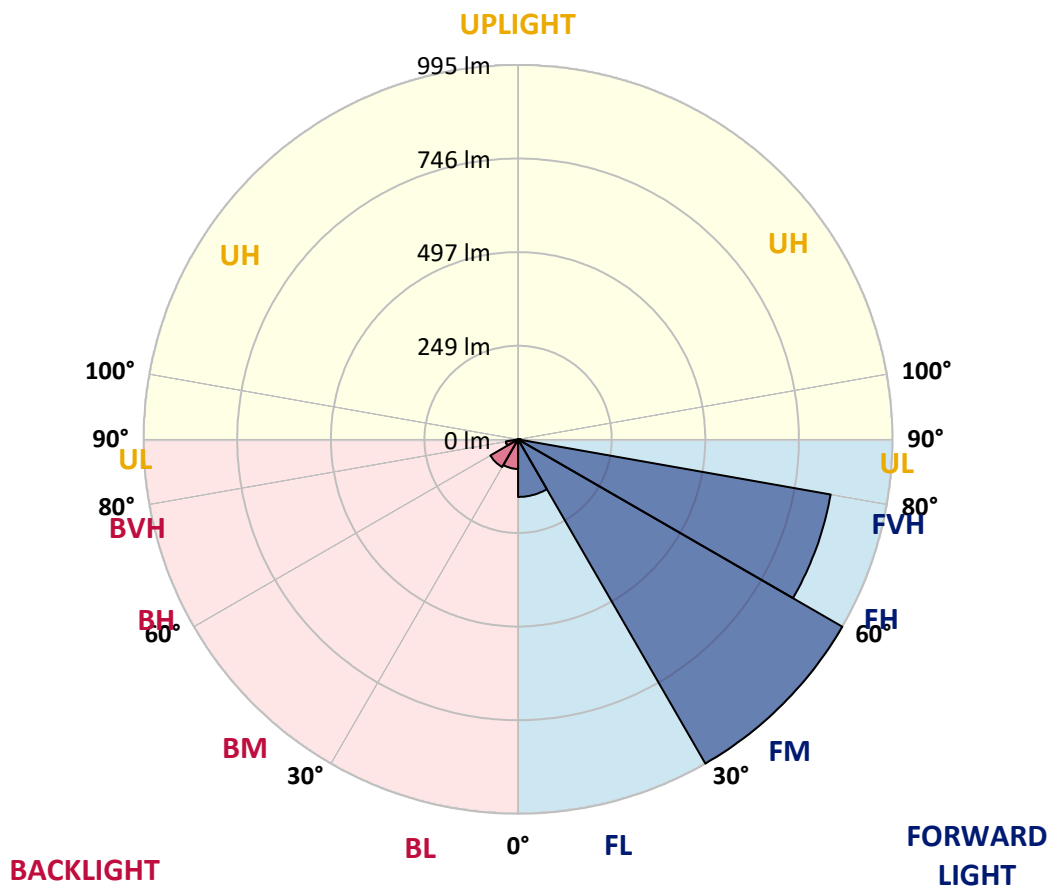
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.0	7.0			
FM (30°-60°)	994.7	45.3			
FH (60°-80°)	843.4	38.4			G1/1800
FVH (80°-90°)	7.4	0.3			G0/10
BL (0°-30°)	78.5	3.6	B0/110		
BM (30°-60°)	84.9	3.9	B0/220		
BH (60°-80°)	32.9	1.5	B0/110		G0/110
BVH (80°-90°)	0.8	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9
2.5°	368.6	368.0	368.4	371.4	377.0	379.6	384.0	384.8	388.5	393.1	394.9
5°	344.6	342.6	343.6	347.9	354.3	361.5	369.8	372.0	381.0	391.3	398.9
7.5°	322.7	320.5	322.9	329.6	338.6	346.4	358.7	360.1	374.6	392.7	406.6
10°	288.3	288.9	293.8	305.4	319.3	335.6	352.1	354.1	372.0	397.3	418.8
12.5°	262.0	260.6	265.8	279.1	298.6	322.3	347.0	349.7	372.2	404.4	434.5
15°	249.7	249.3	251.5	261.2	280.1	308.0	342.4	345.8	374.8	410.8	449.4
17.5°	250.1	249.5	249.3	255.0	269.0	297.4	337.4	341.8	377.0	417.8	465.1
20°	267.6	264.8	259.8	257.2	265.6	290.5	334.0	339.0	380.2	425.3	481.8
22.5°	304.2	305.2	291.8	277.7	273.7	291.4	333.6	339.4	387.3	436.9	502.3
25°	377.4	375.8	350.9	319.3	297.4	300.6	340.6	347.7	401.1	453.6	521.6
27.5°	469.1	470.5	436.3	386.1	340.2	319.7	353.5	360.5	417.2	464.1	534.4
30°	569.0	567.6	531.0	475.3	400.9	351.5	366.3	372.6	425.3	469.7	547.7
32.5°	663.5	660.3	624.1	565.8	478.3	401.5	384.0	387.7	435.9	482.0	565.6
35°	744.2	744.0	712.4	650.3	558.0	464.3	414.4	417.4	455.8	501.5	592.0
37.5°	827.4	824.6	789.2	732.5	639.8	533.0	460.9	459.6	487.2	530.2	624.3
40°	895.8	894.0	866.8	812.3	724.9	609.0	517.2	513.5	524.4	570.0	669.4
42.5°	946.4	946.6	938.2	905.0	814.9	696.9	587.9	582.3	582.1	630.2	728.9
45°	984.8	987.5	1000.1	995.1	921.3	799.3	678.6	672.8	662.9	708.2	797.0
47.5°	1002.7	1006.2	1044.4	1064.5	1014.4	900.8	786.6	774.3	755.0	811.9	873.2
50°	1000.9	1007.0	1060.2	1121.4	1098.8	1003.7	904.2	898.4	866.8	921.7	948.6
52.5°	959.9	972.8	1061.2	1156.0	1163.8	1098.6	1025.9	1015.0	999.7	1036.3	1019.4
55°	848.5	864.2	1018.8	1167.0	1214.5	1181.5	1144.9	1136.0	1110.7	1144.5	1081.2
57.5°	788.0	801.5	929.5	1161.6	1257.5	1258.1	1250.9	1243.6	1222.7	1251.5	1153.5
60°	751.6	765.1	881.9	1141.7	1296.5	1338.9	1350.4	1349.6	1319.4	1373.1	1238.4
62.5°	698.3	716.8	832.2	1090.0	1324.2	1418.5	1453.1	1447.7	1414.1	1499.8	1322.4
65°	590.7	606.8	730.5	1004.7	1308.0	1484.5	1564.5	1567.3	1528.5	1619.0	1388.8
67.5°	414.2	426.1	548.9	825.8	1197.4	1506.2	1678.5	1678.3	1612.2	1680.1	1359.4
70°	240.1	256.4	324.3	510.5	931.6	1407.5	1695.6	1701.5	1578.2	1552.5	1125.0
72.5°	92.9	106.4	183.8	271.2	485.8	1078.1	1458.6	1475.7	1320.8	1197.6	783.0
75°	27.7	31.0	86.5	144.4	195.0	520.8	987.5	992.3	906.0	747.0	401.3
77.5°	20.7	22.9	37.8	73.0	68.4	157.8	510.9	558.0	481.0	266.8	110.6
80°	14.1	16.7	26.9	35.6	25.3	42.0	143.6	157.6	146.8	59.9	27.7
82.5°	6.2	8.0	19.1	17.9	9.2	12.1	44.2	47.1	30.4	18.1	9.7
85°	0.6	0.8	7.2	7.8	3.4	2.8	9.2	9.2	6.6	6.2	4.0
87.5°	0.0	0.0	0.2	0.4	0.4	0.6	0.8	1.0	1.2	1.6	2.0
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°	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9
2.5°	399.5	397.1	400.1	402.5	403.1	398.7	396.1	392.3	391.5	391.7	390.7
5°	405.0	403.7	406.0	403.3	396.5	383.6	372.6	360.3	353.7	349.9	349.5
7.5°	415.0	414.4	412.0	400.1	378.8	350.3	322.7	295.8	279.1	273.1	272.0
10°	429.9	428.7	418.8	390.7	345.2	290.3	244.1	205.5	182.0	175.1	166.7
12.5°	447.0	444.6	423.1	370.4	294.6	218.6	160.9	117.6	97.3	91.3	91.3
15°	463.5	458.2	420.6	336.8	232.2	142.2	89.9	68.0	61.7	60.1	60.1
17.5°	480.4	470.3	411.2	290.9	160.5	84.0	59.9	55.7	54.9	55.1	55.3
20°	496.2	480.6	394.5	235.9	102.3	58.7	53.7	52.7	52.3	52.7	52.5
22.5°	513.5	490.0	369.2	175.7	66.6	52.9	51.1	50.3	49.9	50.5	50.5
25°	530.6	496.8	335.6	118.2	52.9	49.3	48.3	47.5	47.1	47.3	47.3
27.5°	539.5	494.2	291.6	75.4	47.5	45.6	44.6	43.6	43.0	42.8	43.0
30°	545.5	486.2	237.7	53.7	43.0	40.8	39.8	39.0	37.4	36.4	36.8
32.5°	555.0	478.1	179.2	45.0	39.4	36.0	34.4	32.4	30.2	29.2	29.2
35°	566.2	467.1	125.7	40.6	35.6	32.0	29.0	25.5	22.9	22.1	22.1
37.5°	581.1	456.6	83.6	37.6	32.4	28.6	24.3	20.3	17.5	17.1	16.9
40°	603.4	447.8	58.9	35.4	29.6	24.9	19.9	15.7	13.7	13.1	13.1
42.5°	632.4	438.7	46.6	33.2	27.1	21.5	15.9	12.5	10.9	10.5	10.3
45°	668.2	428.1	40.6	31.2	24.7	17.9	12.7	10.5	9.2	8.8	8.8
47.5°	707.0	413.6	37.8	28.6	21.9	14.5	10.7	9.0	8.4	8.2	8.0
50°	745.2	394.1	35.4	26.1	18.7	11.9	9.2	8.2	7.8	7.6	7.6
52.5°	778.5	371.4	32.4	23.3	15.3	10.3	8.2	7.6	7.2	6.8	6.6
55°	807.1	346.6	28.6	20.1	12.5	9.0	7.6	7.0	6.6	6.2	6.0
57.5°	843.9	332.6	22.9	16.3	10.3	8.0	7.0	6.4	6.0	5.4	5.4
60°	884.7	322.3	17.1	12.9	8.8	7.4	6.4	5.8	5.4	4.8	4.8
62.5°	917.5	307.0	13.5	10.5	7.6	6.6	5.8	5.2	4.8	4.2	4.2
65°	929.9	275.5	11.1	8.2	6.2	5.8	5.2	4.8	4.2	3.6	3.6
67.5°	873.6	212.3	9.2	6.6	5.2	5.0	4.6	4.4	3.6	3.2	3.0
70°	691.9	129.5	7.6	5.4	4.4	4.2	4.2	3.8	3.2	3.0	2.8
72.5°	474.1	66.8	6.2	4.4	3.8	3.8	3.6	3.4	3.0	2.8	2.8
75°	246.3	22.3	4.8	3.4	3.0	3.2	3.2	3.0	2.8	2.8	2.6
77.5°	70.6	10.1	3.6	2.6	2.4	2.4	2.6	2.6	2.6	2.4	2.4
80°	18.3	5.8	2.6	2.0	2.0	2.0	2.0	2.2	2.4	2.2	2.2
82.5°	7.4	3.2	1.8	1.6	1.6	1.6	1.6	1.8	2.0	2.0	2.0
85°	4.6	1.6	1.4	1.4	1.4	1.2	1.2	1.4	1.4	1.6	1.6
87.5°	2.8	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
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)