

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: P628949

Luminaire Tested: GWS-SA1A-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628949
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2160.8 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

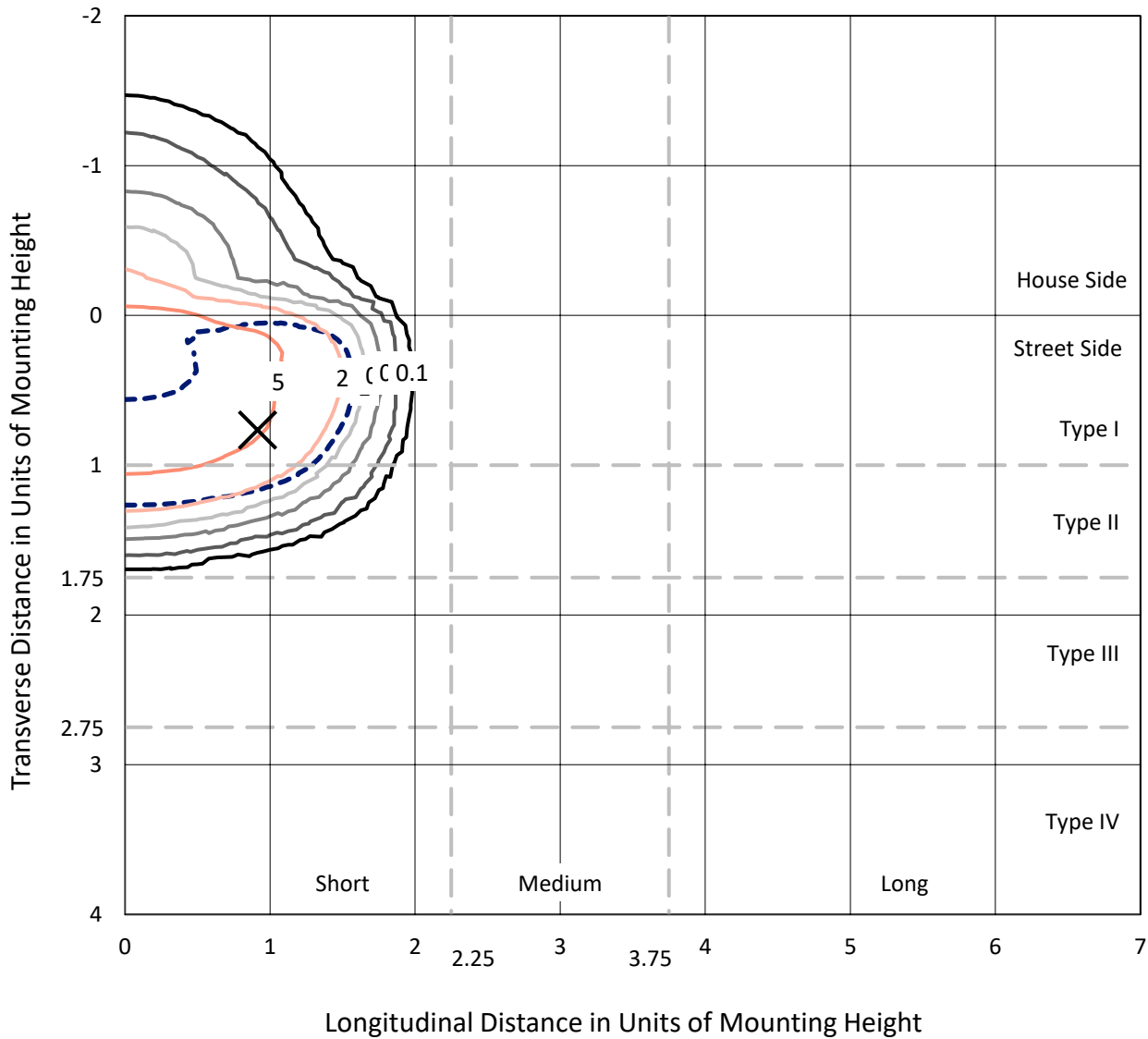
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

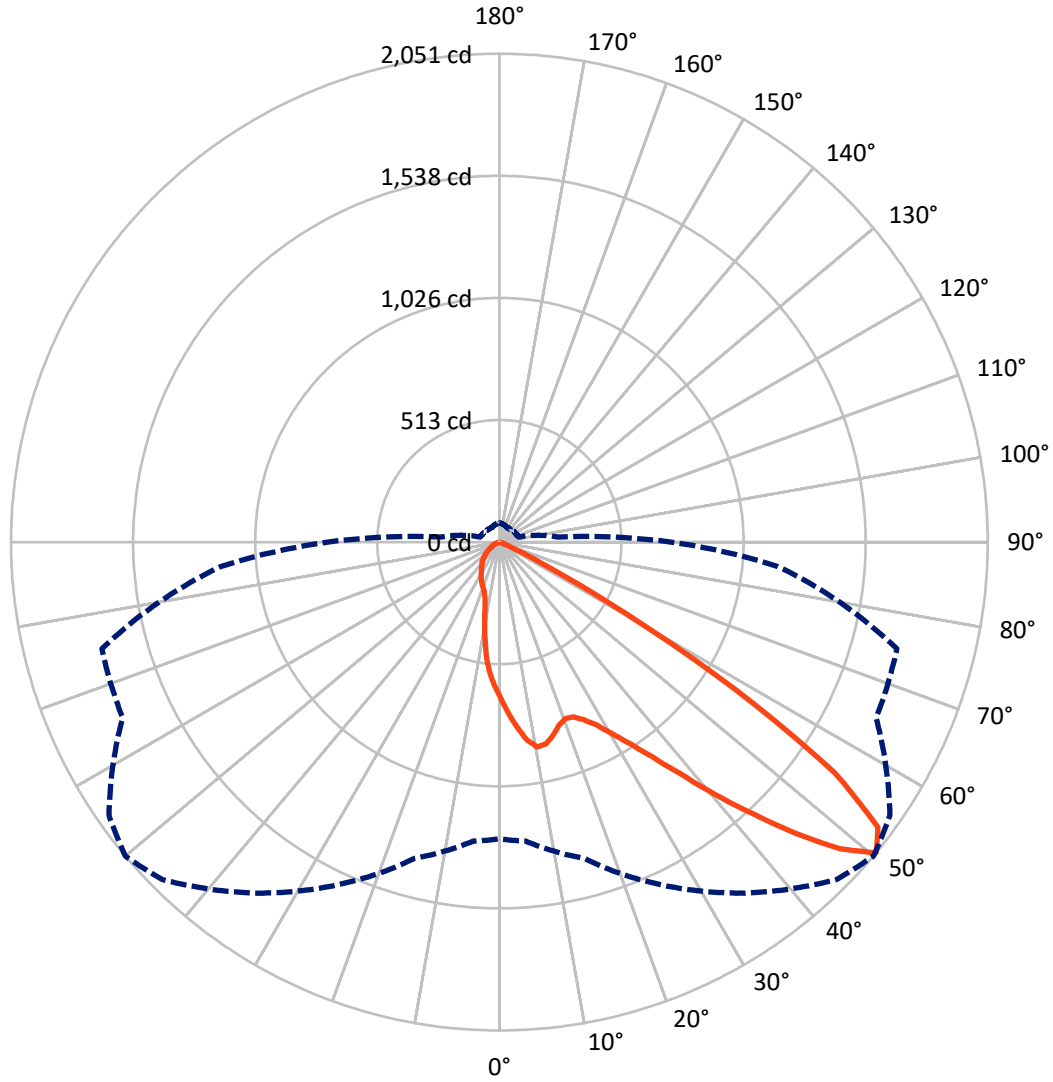
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 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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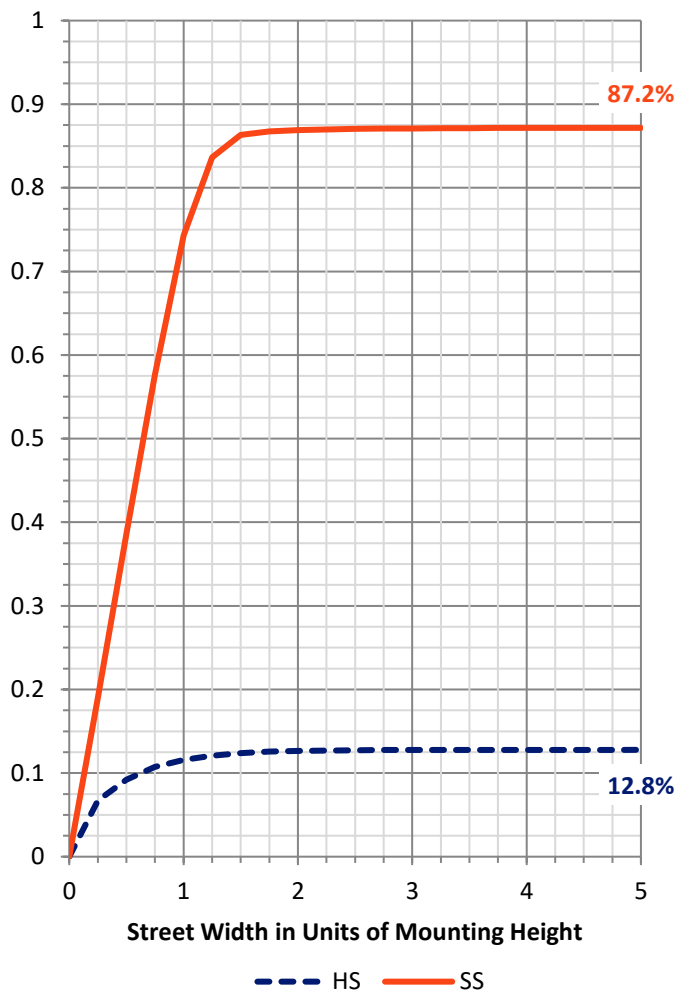
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	277.6	0.0	277.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	1883.2	0.0	1883.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	2160.8	0.0	2160.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	2.8
10°-20°	156.7	7.3
20°-30°	258.6	12.0
30°-40°	426.7	19.7
40°-50°	675.2	31.2
50°-60°	511.2	23.7
60°-70°	64.0	3.0
70°-80°	7.2	0.3
80°-90°	0.5	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°	2160.8	100.0
0°-180°	2160.8	100.0

Coefficient of Utilization



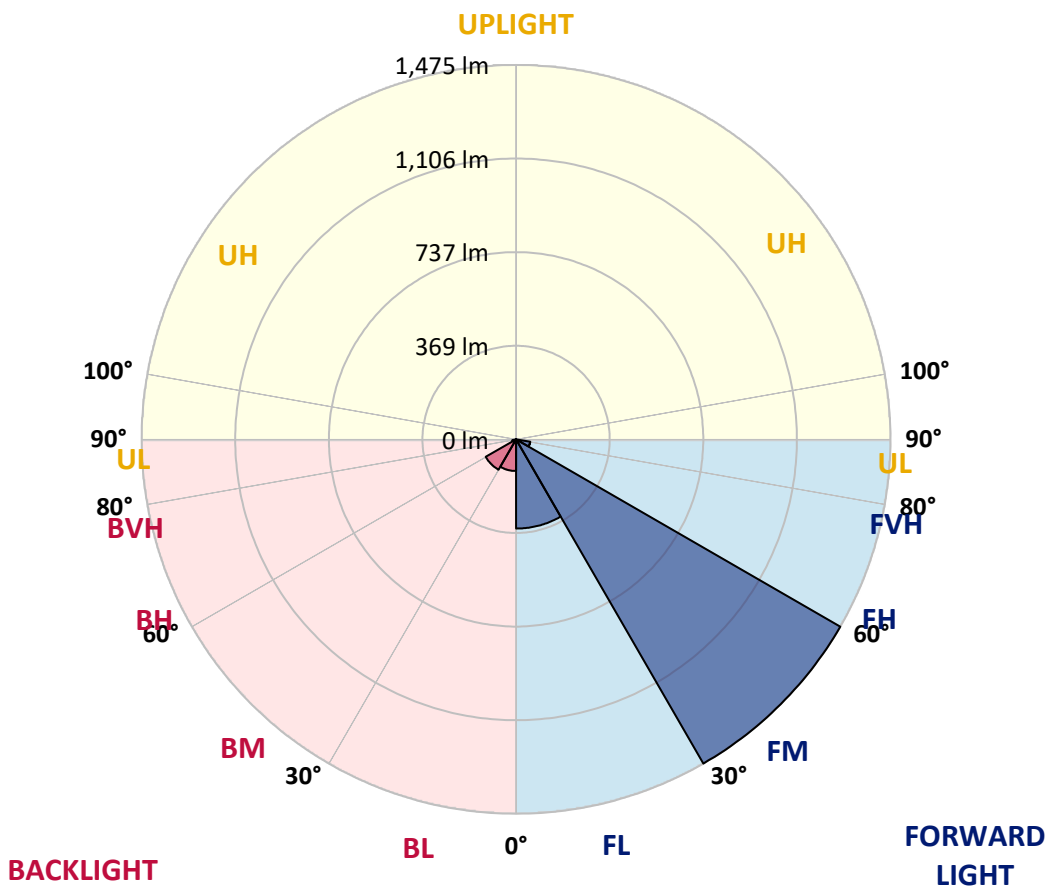
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.4	16.3			
FM (30°-60°)	1475.0	68.3			
FH (60°-80°)	56.6	2.6			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	124.6	5.8	B1/500		
BM (30°-60°)	138.1	6.4	B0/220		
BH (60°-80°)	14.6	0.7	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6
2.5°	746.0	751.9	750.3	742.5	734.0	728.1	718.8	715.9	694.9	680.3	664.9
5°	836.0	837.9	835.8	826.4	811.6	797.4	782.1	773.3	738.1	706.5	674.2
7.5°	857.6	855.4	859.3	864.0	861.9	855.8	839.7	830.1	788.1	736.5	687.5
10°	790.2	785.0	799.6	824.1	849.8	878.8	874.7	875.5	836.9	774.3	705.0
12.5°	700.7	698.6	709.5	737.9	788.3	854.1	870.0	896.5	881.5	815.3	725.0
15°	661.4	662.5	669.0	686.9	723.1	805.0	843.0	890.9	921.4	855.0	747.0
17.5°	667.4	671.1	670.9	676.8	698.9	764.5	808.9	873.5	952.2	900.6	772.3
20°	707.9	711.6	706.1	701.5	708.9	754.2	791.0	855.8	973.0	946.7	799.0
22.5°	768.6	772.9	759.7	746.8	742.0	771.0	797.8	848.6	988.8	988.8	822.9
25°	842.0	848.0	827.6	804.6	791.4	806.6	826.8	864.8	1005.1	1026.7	839.1
27.5°	924.1	924.3	906.8	880.9	856.2	858.0	870.2	901.4	1023.0	1067.4	851.9
30°	1016.4	1017.0	993.8	962.7	931.7	923.2	933.5	957.2	1060.2	1118.6	869.6
32.5°	1135.7	1138.6	1105.3	1059.6	1019.3	1003.4	1009.4	1034.3	1119.4	1182.8	896.1
35°	1296.9	1300.0	1250.9	1190.6	1126.4	1102.6	1108.5	1133.6	1205.2	1273.9	938.5
37.5°	1456.1	1460.2	1410.5	1354.3	1266.3	1226.8	1233.0	1256.8	1334.0	1399.8	1006.3
40°	1566.2	1571.7	1556.3	1518.4	1436.8	1385.0	1392.4	1401.0	1475.7	1550.3	1094.4
42.5°	1624.1	1632.0	1638.5	1657.9	1614.9	1571.5	1559.0	1559.6	1619.8	1703.7	1185.9
45°	1627.6	1635.3	1669.0	1743.6	1776.3	1767.3	1744.5	1729.0	1729.9	1806.0	1243.0
47.5°	1514.5	1528.7	1591.9	1738.1	1861.1	1936.1	1924.6	1888.0	1776.1	1812.7	1236.9
50°	1246.5	1260.5	1375.3	1585.7	1799.4	2003.6	2051.1	2002.0	1745.9	1728.2	1173.3
52.5°	905.3	906.8	981.2	1227.0	1549.3	1879.2	1991.1	1986.3	1699.8	1625.8	1086.5
55°	430.0	424.9	508.6	692.5	1071.5	1519.9	1708.5	1761.9	1634.4	1551.8	1019.3
57.5°	125.3	127.7	164.9	270.2	536.0	971.4	1170.0	1269.6	1341.6	1275.7	790.6
60°	56.1	56.4	62.7	82.3	178.5	451.8	604.9	728.1	802.1	743.3	392.2
62.5°	40.7	40.9	43.4	46.5	60.7	153.0	226.9	302.3	307.9	201.6	99.3
65°	33.9	33.9	34.3	34.3	36.4	54.7	68.9	88.8	74.9	55.5	38.9
67.5°	27.4	27.6	28.0	28.0	27.4	27.4	29.6	32.5	34.8	43.0	35.8
70°	21.4	21.2	21.2	21.4	20.8	17.7	19.1	21.8	23.9	33.5	31.1
72.5°	16.7	16.9	16.7	15.8	14.4	10.5	11.3	14.2	15.2	21.0	21.0
75°	12.5	12.8	11.9	9.0	6.0	3.3	4.3	7.0	8.8	10.3	7.6
77.5°	1.6	1.6	1.2	1.2	1.0	1.2	1.2	1.6	2.5	2.5	1.9
80°	0.2	0.2	0.2	0.4	0.6	0.8	0.8	0.8	0.8	1.0	1.0
82.5°	0.2	0.2	0.2	0.2	0.6	0.6	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.2	0.4	0.6	0.6	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.2	0.4	0.6	0.6	0.6	0.8	0.8	0.8
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°	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6
2.5°	655.7	643.7	629.3	619.5	605.5	596.2	583.1	574.2	566.6	560.6	563.9
5°	655.9	636.9	607.5	582.4	555.1	530.0	503.1	481.9	462.7	454.1	458.8
7.5°	660.0	632.8	587.8	543.2	490.7	438.9	390.4	350.9	331.3	322.1	325.0
10°	668.0	631.0	565.8	491.7	406.6	335.9	288.8	262.0	251.1	245.4	246.4
12.5°	675.4	629.8	537.2	424.1	320.8	260.6	236.1	232.4	234.7	234.9	234.7
15°	685.5	627.5	501.8	354.6	256.7	225.2	225.8	231.2	236.5	238.2	237.8
17.5°	696.2	624.0	456.2	287.9	217.8	214.9	222.1	229.3	234.7	235.5	235.7
20°	707.3	616.8	404.1	235.1	199.7	207.1	215.1	220.5	224.4	225.6	226.0
22.5°	712.4	601.6	344.1	197.2	187.6	197.4	203.4	210.4	211.6	207.1	207.9
25°	709.8	575.9	285.5	171.7	175.4	185.3	194.1	190.7	185.5	182.2	183.2
27.5°	701.3	541.7	228.1	153.0	162.5	175.0	176.1	172.1	171.3	168.6	169.5
30°	692.3	502.4	183.5	138.0	149.3	162.5	159.4	160.8	161.0	158.0	159.0
32.5°	686.7	461.3	146.0	127.9	140.9	143.3	149.5	152.4	152.6	145.4	146.6
35°	688.6	420.8	123.6	119.7	133.1	132.4	141.1	142.7	130.8	120.9	122.0
37.5°	703.6	383.4	110.9	113.3	119.5	124.2	130.8	119.9	117.2	112.7	113.3
40°	731.6	351.5	103.2	109.4	110.2	117.8	107.8	109.2	109.4	106.5	107.2
42.5°	764.3	325.0	98.7	107.2	105.1	106.3	96.3	99.1	102.2	101.0	101.2
45°	780.7	299.0	94.8	99.3	100.0	88.2	86.0	89.1	93.0	93.6	93.8
47.5°	766.1	274.4	90.7	88.0	92.1	80.4	77.7	78.8	83.3	85.8	86.2
50°	721.5	246.0	84.5	77.9	75.7	72.2	69.7	69.9	75.1	79.4	80.2
52.5°	658.7	216.4	74.5	66.0	60.9	63.6	64.2	62.9	67.7	72.0	72.8
55°	597.9	179.3	59.0	53.7	48.9	54.7	56.4	54.7	56.1	59.0	59.2
57.5°	421.0	101.4	45.2	44.4	40.5	46.9	49.6	47.1	44.6	46.5	46.9
60°	195.2	53.1	34.8	34.8	33.7	40.3	44.8	41.3	36.6	37.4	38.0
62.5°	61.1	33.5	25.5	24.1	27.6	34.3	38.0	34.6	29.0	29.0	29.8
65°	34.6	28.8	20.2	18.5	22.4	27.6	29.8	26.1	21.2	20.8	20.8
67.5°	32.1	27.4	17.9	15.0	15.8	17.7	18.5	16.0	14.6	14.4	14.6
70°	26.5	22.8	14.4	10.3	9.7	9.5	9.9	9.3	8.8	9.0	9.7
72.5°	16.5	13.8	9.0	6.2	5.3	5.1	5.1	5.1	4.9	4.9	4.9
75°	6.0	5.1	4.1	3.1	2.7	2.5	2.5	2.7	2.5	2.3	2.1
77.5°	1.9	1.6	1.6	1.6	1.4	1.2	1.0	1.0	0.8	0.6	0.6
80°	1.0	1.0	1.0	1.0	0.8	0.8	0.6	0.4	0.2	0.2	0.0
82.5°	1.0	1.0	1.0	0.8	0.8	0.8	0.6	0.4	0.2	0.0	0.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.4	0.2	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.4	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)