

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: P628894

Luminaire Tested: GWS-SA1A-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628894
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2190.8 lumens
Efficiency: N/A
Efficacy: 111.2 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

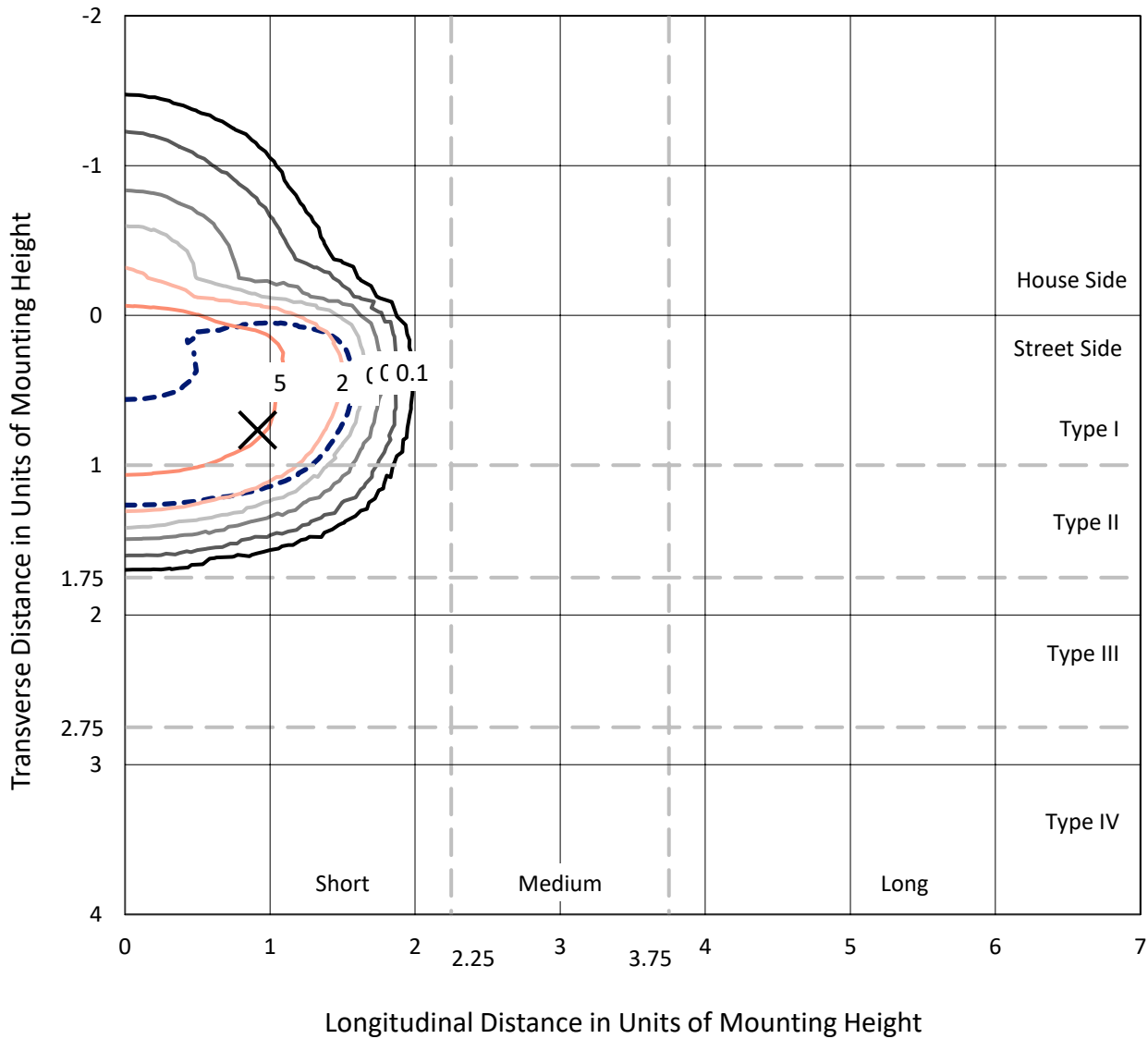
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

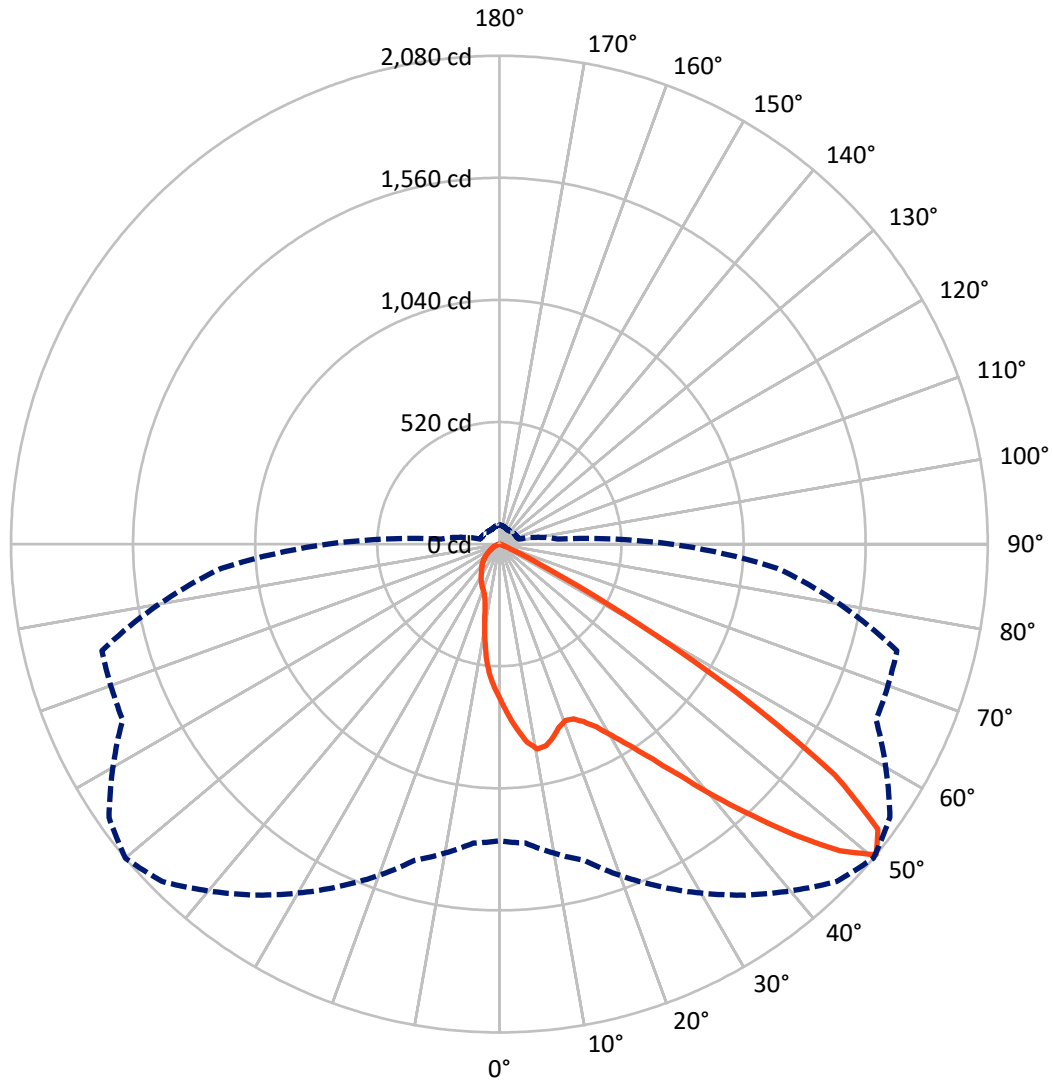
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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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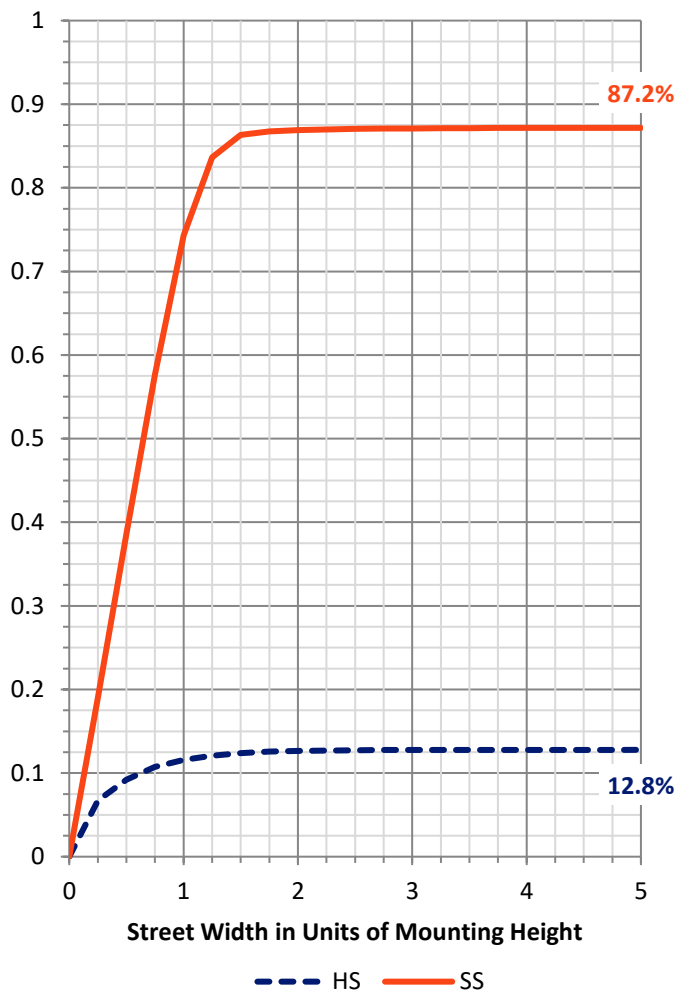
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	281.5	0.0	281.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	1909.3	0.0	1909.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	2190.8	0.0	2190.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	2.8
10°-20°	158.9	7.3
20°-30°	262.2	12.0
30°-40°	432.6	19.7
40°-50°	684.5	31.2
50°-60°	518.3	23.7
60°-70°	64.9	3.0
70°-80°	7.3	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°	2190.8	100.0
0°-180°	2190.8	100.0

Coefficient of Utilization



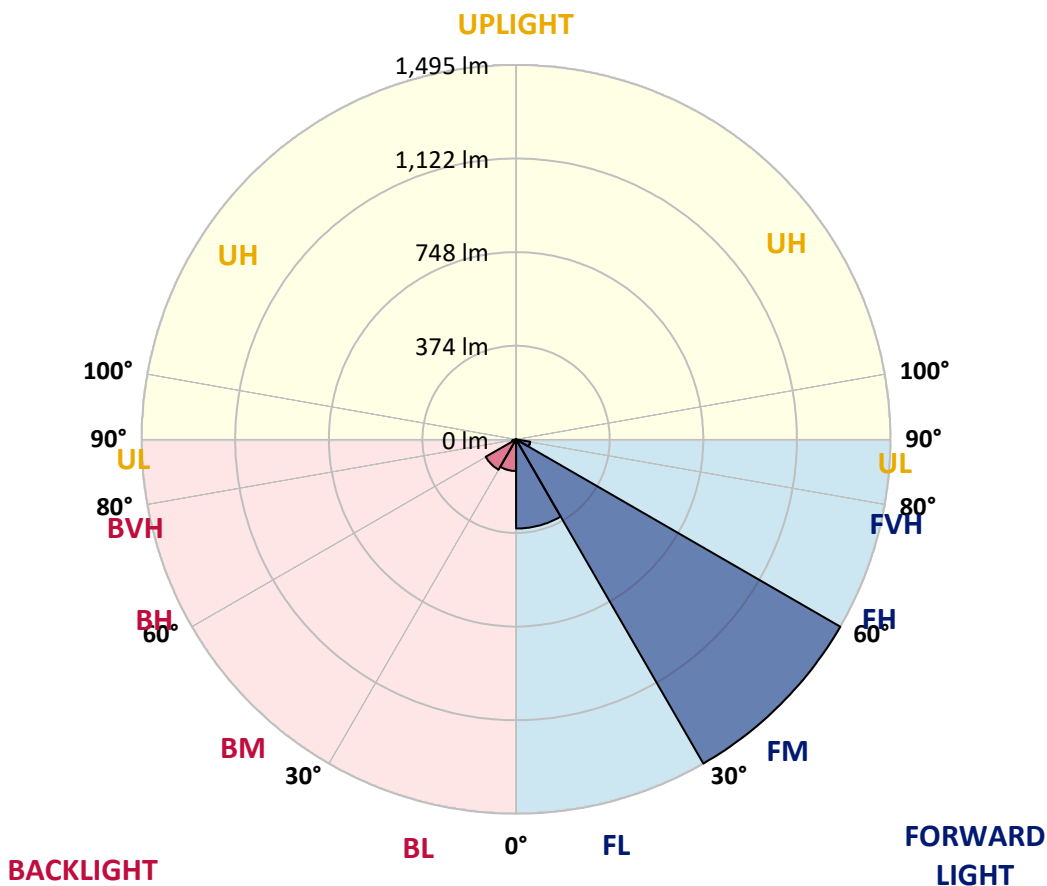
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.3	16.3			
FM (30°-60°)	1495.4	68.3			
FH (60°-80°)	57.3	2.6			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	126.3	5.8	B1/500		
BM (30°-60°)	140.0	6.4	B0/220		
BH (60°-80°)	14.9	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°	663.7	663.7	663.7	663.7	663.7	663.7	663.7	663.7	663.7	663.7	663.7
2.5°	756.3	762.4	760.7	752.8	744.2	738.2	728.8	725.9	704.6	689.8	674.2
5°	847.6	849.5	847.4	837.8	822.8	808.4	793.0	784.0	748.4	716.3	683.5
7.5°	869.5	867.2	871.2	876.0	873.9	867.7	851.4	841.6	799.1	746.7	697.1
10°	801.1	795.9	810.7	835.5	861.6	891.0	886.8	887.7	848.5	785.1	714.8
12.5°	710.4	708.3	719.4	748.2	799.3	866.0	882.0	908.9	893.7	826.6	735.0
15°	670.6	671.6	678.3	696.5	733.2	816.2	854.7	903.3	934.2	866.8	757.4
17.5°	676.7	680.4	680.2	686.2	708.6	775.1	820.1	885.6	965.5	913.1	783.0
20°	717.7	721.5	715.9	711.3	718.8	764.6	802.0	867.7	986.5	959.8	810.1
22.5°	779.2	783.6	770.3	757.1	752.3	781.7	808.9	860.4	1002.6	1002.6	834.3
25°	853.7	859.7	839.1	815.7	802.4	817.8	838.3	876.8	1019.0	1040.9	850.8
27.5°	936.9	937.1	919.4	893.1	868.1	870.0	882.3	914.0	1037.2	1082.2	863.7
30°	1030.5	1031.1	1007.6	976.1	944.6	936.1	946.5	970.5	1074.9	1134.2	881.6
32.5°	1151.5	1154.4	1120.6	1074.3	1033.4	1017.4	1023.4	1048.7	1135.0	1199.2	908.5
35°	1314.9	1318.1	1268.2	1207.1	1142.1	1117.9	1123.9	1149.4	1221.9	1291.6	951.5
37.5°	1476.3	1480.5	1430.0	1373.1	1283.9	1243.8	1250.1	1274.3	1352.5	1419.2	1020.3
40°	1587.9	1593.5	1577.9	1539.5	1456.7	1404.2	1411.7	1420.5	1496.1	1571.8	1109.5
42.5°	1646.7	1654.6	1661.3	1680.9	1637.3	1593.3	1580.6	1581.2	1642.3	1727.4	1202.3
45°	1650.2	1658.0	1692.2	1767.8	1801.0	1791.8	1768.7	1753.0	1753.9	1831.0	1260.3
47.5°	1535.6	1549.9	1614.0	1762.2	1886.9	1963.0	1951.3	1914.2	1800.8	1837.9	1254.1
50°	1263.9	1278.0	1394.4	1607.7	1824.4	2031.4	2079.6	2029.8	1770.1	1752.2	1189.6
52.5°	917.9	919.4	994.9	1244.0	1570.8	1905.3	2018.7	2013.9	1723.4	1648.4	1101.6
55°	436.0	430.8	515.7	702.1	1086.4	1541.0	1732.2	1786.4	1657.1	1573.3	1033.4
57.5°	127.0	129.5	167.2	274.0	543.4	984.8	1186.3	1287.2	1360.2	1293.5	801.6
60°	56.9	57.1	63.6	83.4	181.0	458.1	613.3	738.2	813.2	753.6	397.7
62.5°	41.3	41.5	44.0	47.1	61.5	155.1	230.0	306.5	312.2	204.4	100.7
65°	34.4	34.4	34.8	34.8	36.9	55.5	69.9	90.1	75.9	56.3	39.4
67.5°	27.7	27.9	28.4	28.4	27.7	27.7	30.0	32.9	35.2	43.6	36.3
70°	21.7	21.5	21.5	21.7	21.1	17.9	19.4	22.1	24.2	34.0	31.5
72.5°	16.9	17.1	16.9	16.1	14.6	10.6	11.5	14.4	15.4	21.3	21.3
75°	12.7	12.9	12.1	9.2	6.0	3.3	4.4	7.1	9.0	10.4	7.7
77.5°	1.7	1.7	1.3	1.3	1.0	1.3	1.3	1.7	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°	663.7	663.7	663.7	663.7	663.7	663.7	663.7	663.7	663.7	663.7	663.7
2.5°	664.8	652.7	638.1	628.1	613.9	604.5	591.2	582.2	574.5	568.4	571.8
5°	665.0	645.8	616.0	590.5	562.8	537.4	510.0	488.6	469.2	460.4	465.2
7.5°	669.1	641.6	596.0	550.7	497.5	445.0	395.8	355.7	335.9	326.5	329.5
10°	677.3	639.7	573.6	498.6	412.2	340.5	292.8	265.7	254.6	248.8	249.8
12.5°	684.8	638.5	544.7	430.0	325.3	264.2	239.4	235.6	237.9	238.1	237.9
15°	695.0	636.2	508.8	359.5	260.2	228.3	229.0	234.4	239.8	241.5	241.1
17.5°	705.8	632.7	462.5	291.9	220.8	217.9	225.2	232.5	237.9	238.8	239.0
20°	717.1	625.4	409.7	238.3	202.5	210.0	218.1	223.5	227.5	228.7	229.2
22.5°	722.3	609.9	348.9	200.0	190.2	200.2	206.2	213.3	214.6	210.0	210.8
25°	719.6	583.9	289.4	174.1	177.9	187.9	196.8	193.3	188.1	184.8	185.8
27.5°	711.1	549.2	231.3	155.1	164.7	177.5	178.5	174.5	173.7	171.0	171.8
30°	701.9	509.4	186.0	139.9	151.4	164.7	161.6	163.1	163.3	160.1	161.2
32.5°	696.3	467.7	148.1	129.7	142.8	145.3	151.6	154.5	154.7	147.4	148.7
35°	698.1	426.6	125.3	121.4	134.9	134.3	143.0	144.7	132.6	122.6	123.7
37.5°	713.4	388.7	112.4	114.9	121.2	125.9	132.6	121.6	118.9	114.3	114.9
40°	741.7	356.4	104.7	110.9	111.8	119.5	109.3	110.7	110.9	108.0	108.6
42.5°	774.9	329.5	100.1	108.6	106.6	107.8	97.6	100.5	103.6	102.4	102.6
45°	791.5	303.2	96.1	100.7	101.3	89.5	87.2	90.3	94.3	94.9	95.1
47.5°	776.7	278.2	92.0	89.2	93.4	81.5	78.8	79.9	84.5	87.0	87.4
50°	731.5	249.4	85.7	79.0	76.7	73.2	70.7	70.9	76.1	80.5	81.3
52.5°	667.9	219.4	75.5	66.9	61.7	64.4	65.1	63.8	68.6	73.0	73.8
55°	606.2	181.8	59.8	54.4	49.6	55.5	57.1	55.5	56.9	59.8	60.1
57.5°	426.8	102.8	45.9	45.0	41.1	47.5	50.3	47.8	45.2	47.1	47.5
60°	197.9	53.8	35.2	35.2	34.2	40.9	45.5	41.9	37.1	38.0	38.6
62.5°	61.9	34.0	25.9	24.4	27.9	34.8	38.6	35.0	29.4	29.4	30.2
65°	35.0	29.2	20.4	18.8	22.7	27.9	30.2	26.5	21.5	21.1	21.1
67.5°	32.5	27.7	18.1	15.2	16.1	17.9	18.8	16.3	14.8	14.6	14.8
70°	26.9	23.1	14.6	10.4	9.8	9.6	10.0	9.4	9.0	9.2	9.8
72.5°	16.7	14.0	9.2	6.3	5.4	5.2	5.2	5.2	5.0	5.0	5.0
75°	6.0	5.2	4.2	3.1	2.7	2.5	2.5	2.7	2.5	2.3	2.1
77.5°	1.9	1.7	1.7	1.7	1.5	1.3	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)