

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: P629309

Luminaire Tested: GWS-SA1B-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2369.6 lumens
Efficiency: N/A
Efficacy: 94.8 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

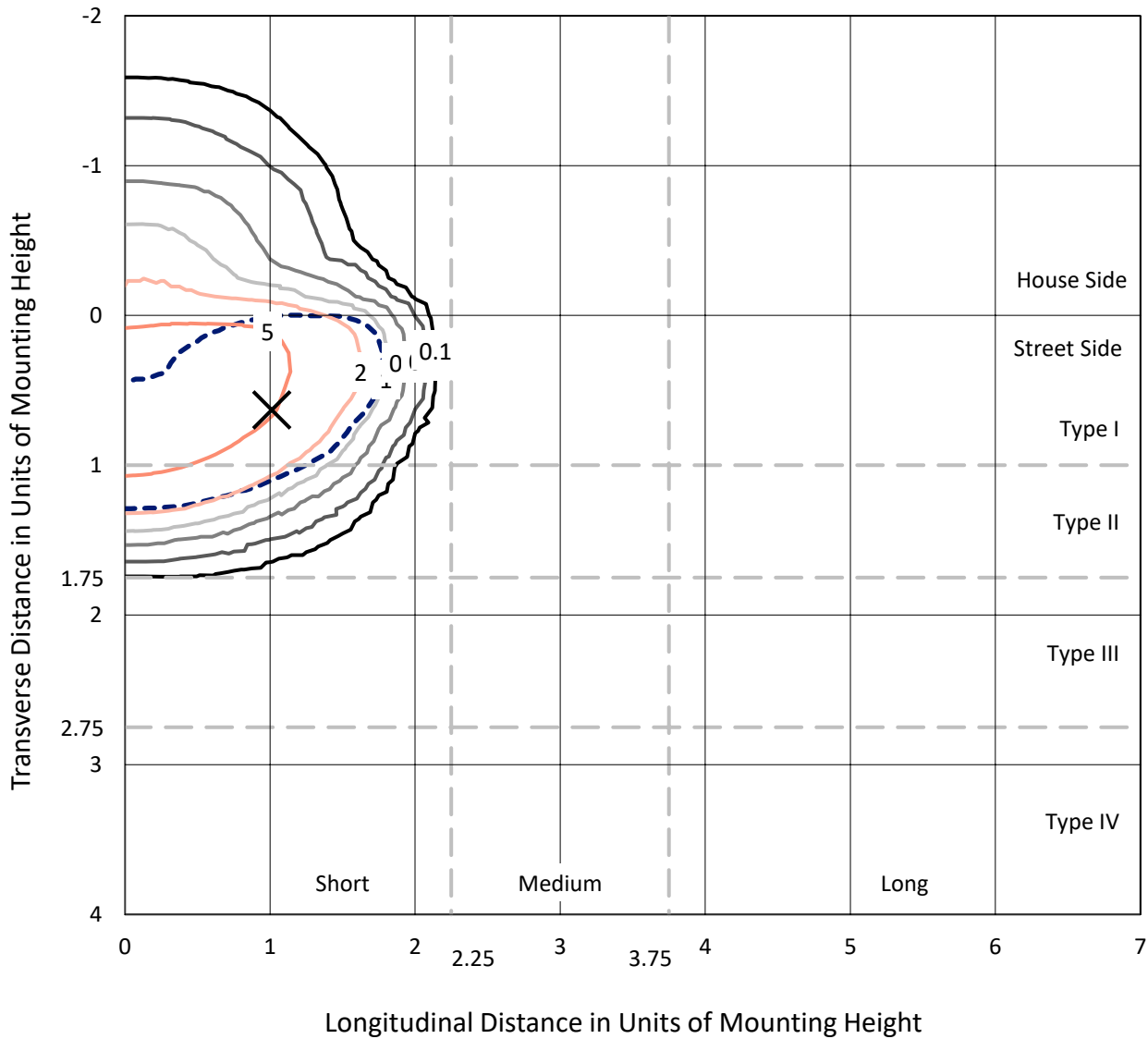
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

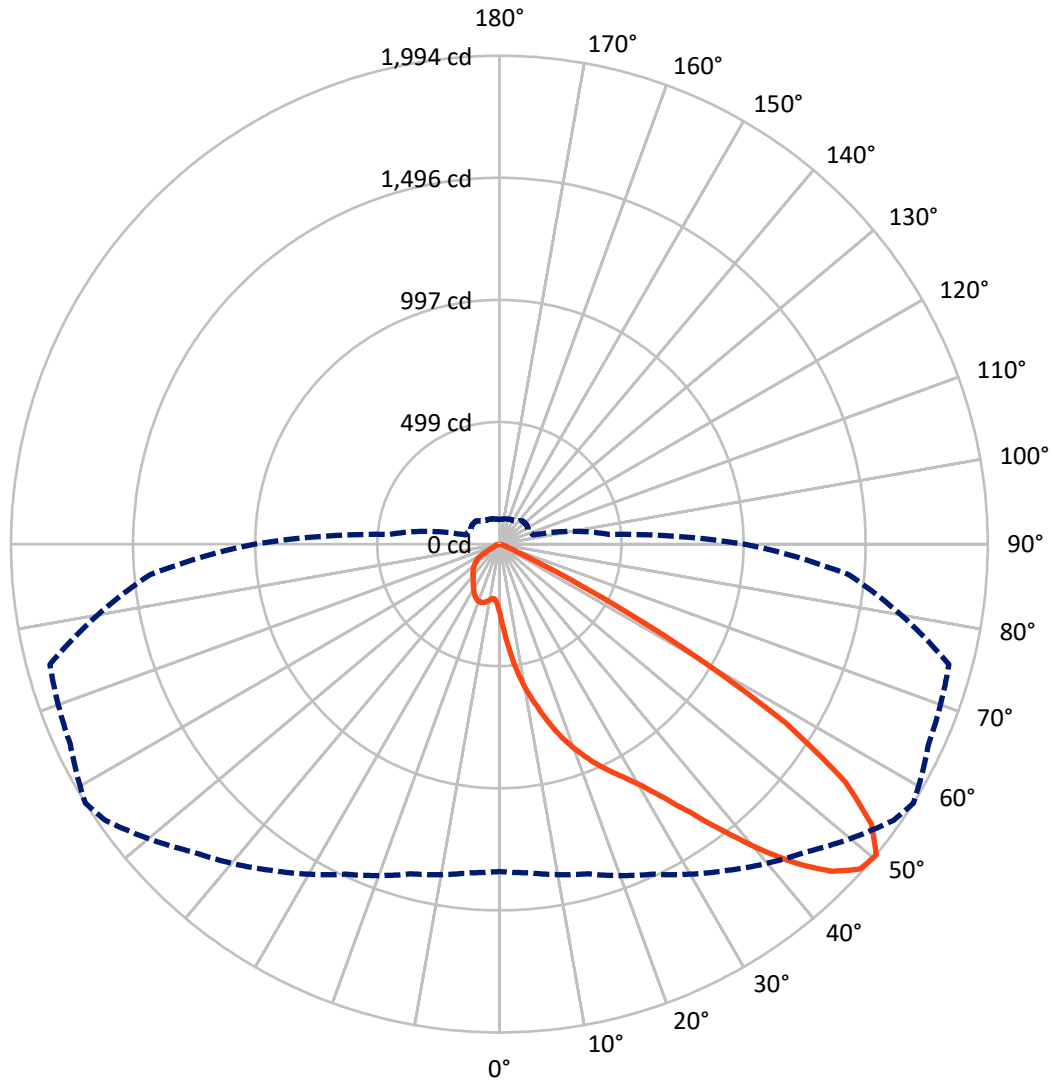
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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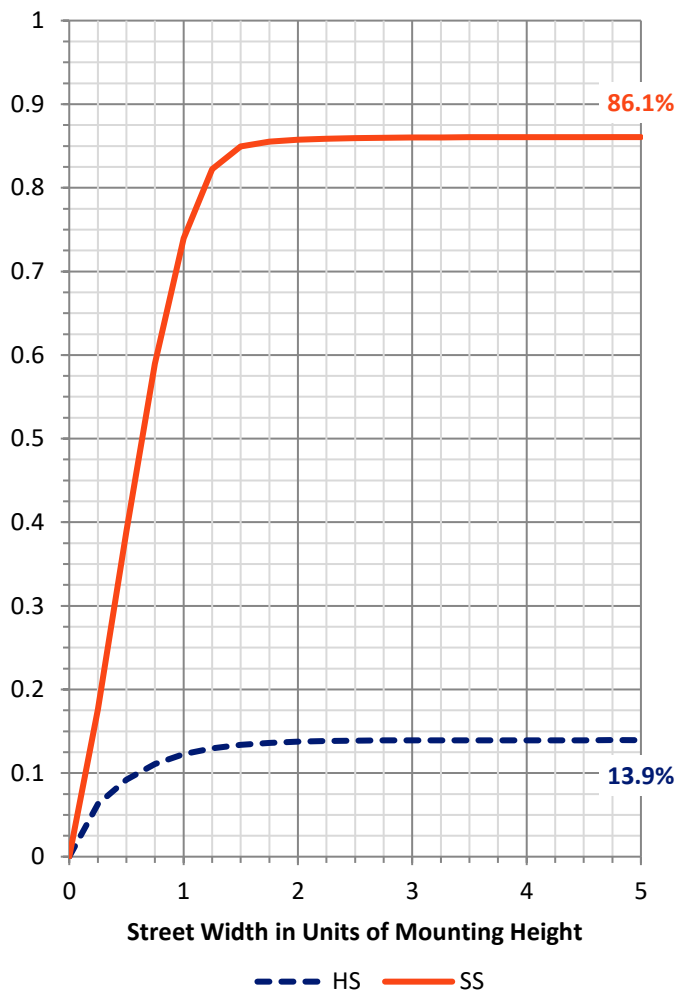
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	331.9	0.0	331.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2037.7	0.0	2037.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	2369.6	0.0	2369.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	1.5
10°-20°	138.8	5.9
20°-30°	280.9	11.9
30°-40°	496.9	21.0
40°-50°	724.4	30.6
50°-60°	580.6	24.5
60°-70°	104.6	4.4
70°-80°	8.2	0.3
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°	2369.6	100.0
0°-180°	2369.6	100.0

Coefficient of Utilization



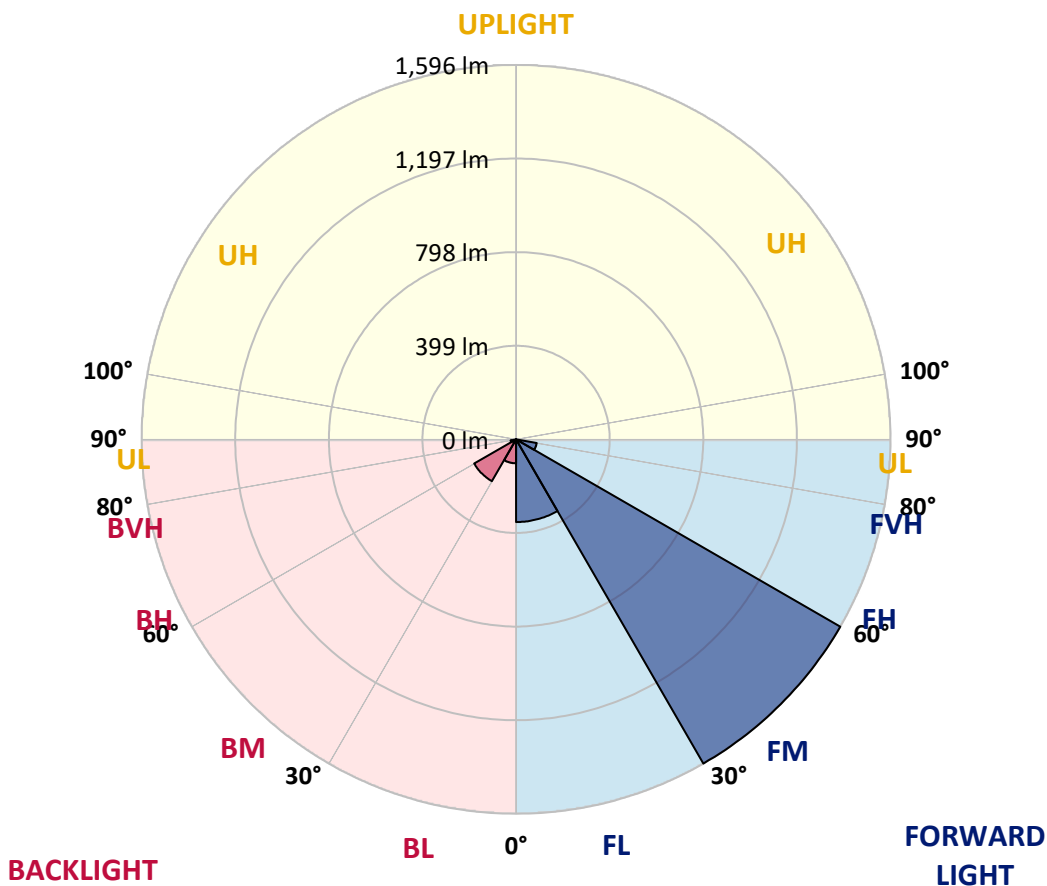
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	352.6	14.9			
FM (30°-60°)	1595.9	67.3			
FH (60°-80°)	89.3	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	102.2	4.3	B0/110		
BM (30°-60°)	206.1	8.7	B0/220		
BH (60°-80°)	23.6	1.0	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°	58°	65°	75°	85°
0°	283.0	283.0	283.0	283.0	283.0	283.0	283.0	283.0	283.0	283.0	283.0
2.5°	418.9	412.3	408.5	405.4	392.0	370.7	356.8	349.4	337.3	316.7	299.0
5°	546.6	541.8	532.9	526.8	509.6	479.4	448.3	435.8	408.2	361.9	320.3
7.5°	631.2	627.7	624.4	616.3	600.0	572.7	538.2	525.3	482.7	416.8	348.7
10°	696.3	693.5	689.7	689.5	676.8	652.2	618.5	605.1	559.0	476.6	382.1
12.5°	753.6	751.3	750.6	757.7	749.5	731.3	694.8	678.1	629.2	537.7	419.1
15°	792.9	792.4	795.7	809.6	814.2	805.8	775.1	757.2	700.9	599.0	459.9
17.5°	810.9	812.4	818.7	842.8	863.1	870.2	846.6	831.4	772.1	661.1	503.5
20°	841.5	841.0	844.8	867.6	892.5	917.8	910.7	897.8	844.1	726.7	551.9
22.5°	927.9	920.6	912.5	916.0	924.9	954.5	967.7	961.1	918.3	794.1	601.8
25°	1060.7	1053.1	1027.0	1001.7	985.0	998.4	1016.4	1019.7	992.0	863.3	654.0
27.5°	1201.6	1194.8	1165.4	1127.4	1079.5	1056.2	1069.6	1076.2	1064.5	945.7	709.5
30°	1333.6	1324.5	1292.3	1245.2	1189.7	1154.0	1138.8	1143.3	1150.2	1043.2	774.6
32.5°	1448.2	1441.3	1402.8	1353.1	1299.7	1262.4	1226.9	1234.6	1251.3	1162.6	858.0
35°	1545.2	1541.7	1500.9	1451.5	1395.0	1375.9	1345.5	1347.1	1363.8	1306.8	959.6
37.5°	1629.6	1623.5	1586.5	1540.7	1495.8	1492.8	1484.4	1485.2	1493.8	1474.8	1076.4
40°	1682.8	1677.2	1650.9	1622.5	1590.6	1591.1	1634.4	1637.7	1627.8	1639.7	1199.8
42.5°	1702.8	1698.8	1684.6	1684.8	1681.5	1696.5	1777.8	1783.9	1748.4	1769.2	1305.2
45°	1668.1	1666.3	1667.4	1703.8	1743.4	1789.5	1895.2	1905.8	1855.6	1855.1	1387.6
47.5°	1556.1	1552.6	1582.2	1644.3	1735.8	1825.5	1966.1	1982.6	1930.6	1904.3	1439.3
50°	1336.7	1346.8	1393.7	1486.9	1626.0	1776.1	1965.3	1994.0	1933.4	1900.0	1430.7
52.5°	968.2	966.2	1068.8	1197.0	1366.3	1617.9	1860.9	1902.8	1865.8	1857.7	1411.4
55°	526.8	545.3	614.5	784.3	995.6	1318.7	1622.5	1713.7	1756.5	1842.2	1446.1
57.5°	193.6	201.7	245.0	365.1	527.1	820.0	1239.4	1377.0	1509.2	1799.1	1440.3
60°	78.0	79.6	96.8	134.3	221.5	417.3	743.5	865.6	990.3	1377.2	1105.3
62.5°	56.8	58.8	65.6	78.6	112.0	182.4	320.5	372.7	407.5	682.1	544.6
65°	45.9	47.4	53.0	58.8	74.0	98.1	103.4	99.6	99.1	176.4	124.9
67.5°	38.0	39.5	43.6	47.6	53.2	48.9	35.5	37.2	30.4	30.2	24.6
70°	27.9	29.6	33.7	38.0	31.9	13.2	20.5	30.4	23.1	19.3	18.8
72.5°	21.0	22.3	26.1	24.8	9.4	5.1	13.7	22.0	17.7	14.2	13.9
75°	15.7	16.5	13.2	4.1	1.0	1.3	5.1	9.1	9.9	8.1	8.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	1.0	1.3	1.5
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	283.0	283.0	283.0	283.0	283.0	283.0	283.0	283.0	283.0	283.0	283.0
2.5°	288.9	278.2	263.0	250.4	240.7	231.4	224.3	217.2	216.9	213.4	212.6
5°	301.0	281.8	253.9	233.9	221.7	214.4	209.3	206.8	205.5	204.2	203.7
7.5°	318.5	290.9	252.4	231.1	221.0	216.1	212.6	211.1	210.3	209.3	209.1
10°	340.1	304.1	258.0	236.4	227.6	223.0	219.2	216.9	215.6	213.9	213.4
12.5°	365.9	320.3	266.8	245.3	235.9	229.8	224.8	221.5	219.7	217.4	216.9
15°	393.8	337.8	276.7	253.4	242.2	234.4	228.1	223.0	219.7	216.9	216.1
17.5°	422.7	355.5	285.6	259.0	245.3	235.9	226.8	219.9	215.9	212.3	211.3
20°	455.1	373.8	291.4	260.0	244.3	231.9	221.2	212.6	208.5	203.7	202.7
22.5°	489.1	390.7	293.9	257.7	238.7	224.3	212.9	204.0	198.2	193.1	191.6
25°	522.0	405.9	292.7	251.4	230.3	213.6	202.0	192.8	186.5	181.4	180.2
27.5°	557.0	418.6	288.1	242.0	218.9	202.0	190.8	183.0	177.1	171.5	170.3
30°	596.2	430.3	280.8	230.6	205.5	190.0	181.4	176.1	169.8	163.9	162.2
32.5°	643.6	440.7	270.1	216.9	193.6	179.7	174.8	170.8	163.4	157.4	156.1
35°	697.9	449.3	256.7	202.7	181.9	173.1	172.1	166.7	157.1	150.0	148.5
37.5°	760.7	457.6	240.7	188.8	173.3	170.0	170.3	161.2	149.5	140.9	139.9
40°	828.4	466.0	223.0	176.6	165.5	168.3	166.0	153.1	134.0	125.7	124.7
42.5°	898.8	475.1	205.0	165.2	158.9	161.4	158.1	136.8	123.2	118.8	118.3
45°	962.4	486.0	185.5	153.8	152.3	151.5	146.0	123.9	118.1	115.0	114.8
47.5°	1008.3	484.2	164.7	142.9	145.2	142.7	125.7	117.8	113.0	109.0	107.9
50°	999.9	453.3	143.2	130.8	136.1	133.8	113.0	110.7	106.4	102.1	100.6
52.5°	978.6	411.3	124.4	117.8	126.2	120.9	104.4	102.1	98.3	92.7	91.0
55°	990.0	371.7	109.7	107.4	116.1	100.1	94.8	91.2	87.2	81.1	80.3
57.5°	953.3	303.3	88.2	89.7	102.6	85.4	83.1	77.5	70.7	66.6	66.1
60°	659.8	162.9	55.2	57.0	74.2	71.7	74.5	69.4	61.1	57.3	56.5
62.5°	303.1	65.4	30.2	28.9	39.0	48.7	63.9	63.3	53.0	46.9	46.4
65°	73.5	29.9	21.5	20.3	22.0	29.1	41.6	49.9	42.8	35.7	35.0
67.5°	23.8	24.3	19.8	18.5	19.5	21.8	24.8	27.6	27.4	25.1	24.6
70°	19.0	22.0	18.2	16.7	16.7	17.5	16.7	13.4	11.7	12.7	13.2
72.5°	14.2	16.7	14.4	12.9	12.4	12.2	10.4	7.6	5.3	4.8	4.6
75°	8.4	9.4	8.9	7.6	7.1	6.3	5.1	3.3	1.8	1.3	0.8
77.5°	1.5	1.8	2.0	1.5	1.3	1.0	0.8	0.3	0.0	0.0	0.0
80°	0.0	0.3	0.3	0.3	0.0	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)