

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: P628979

Luminaire Tested: GWS-SA1A-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628979
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-SA1A-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1923.3 lumens
Efficiency: N/A
Efficacy: 97.6 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

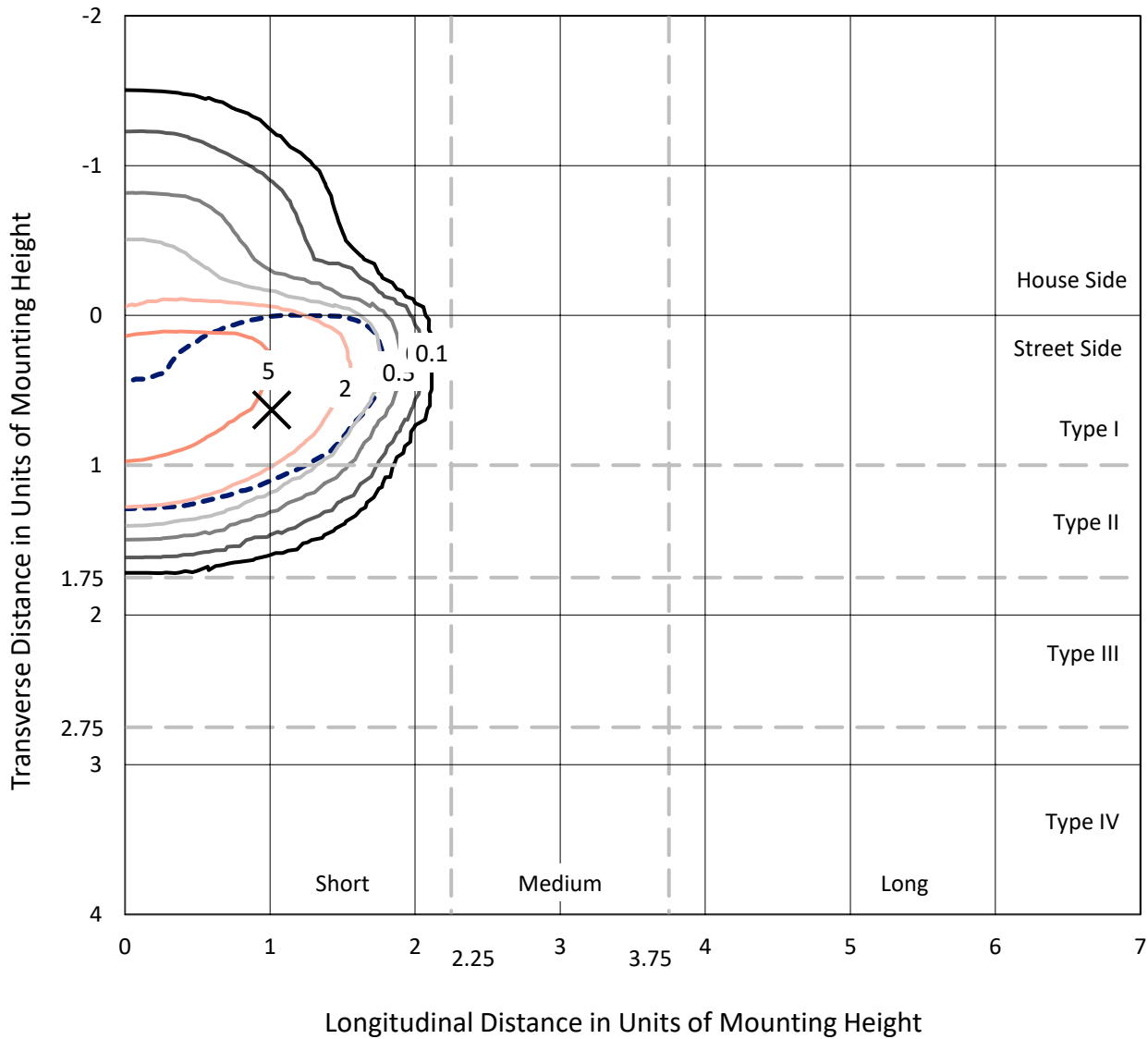
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

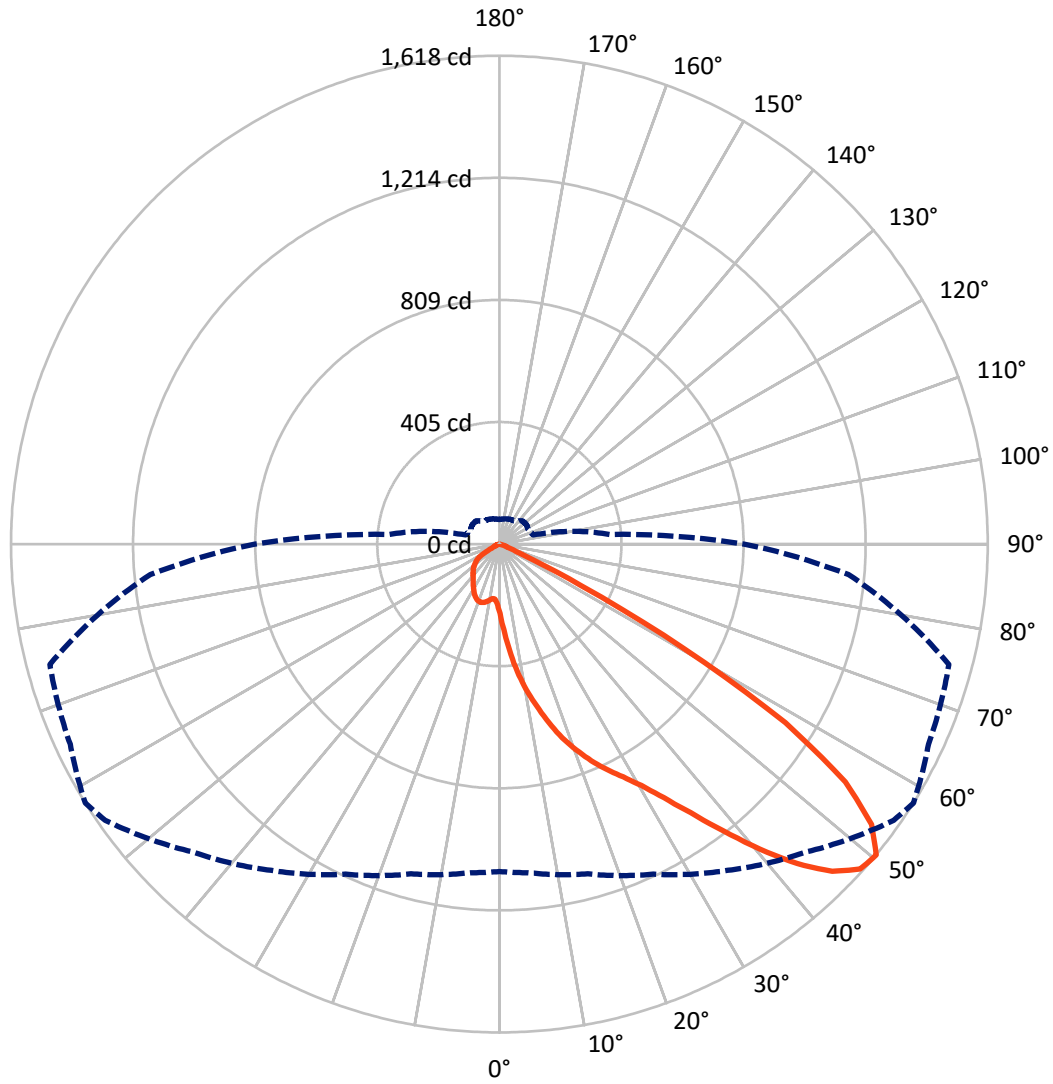
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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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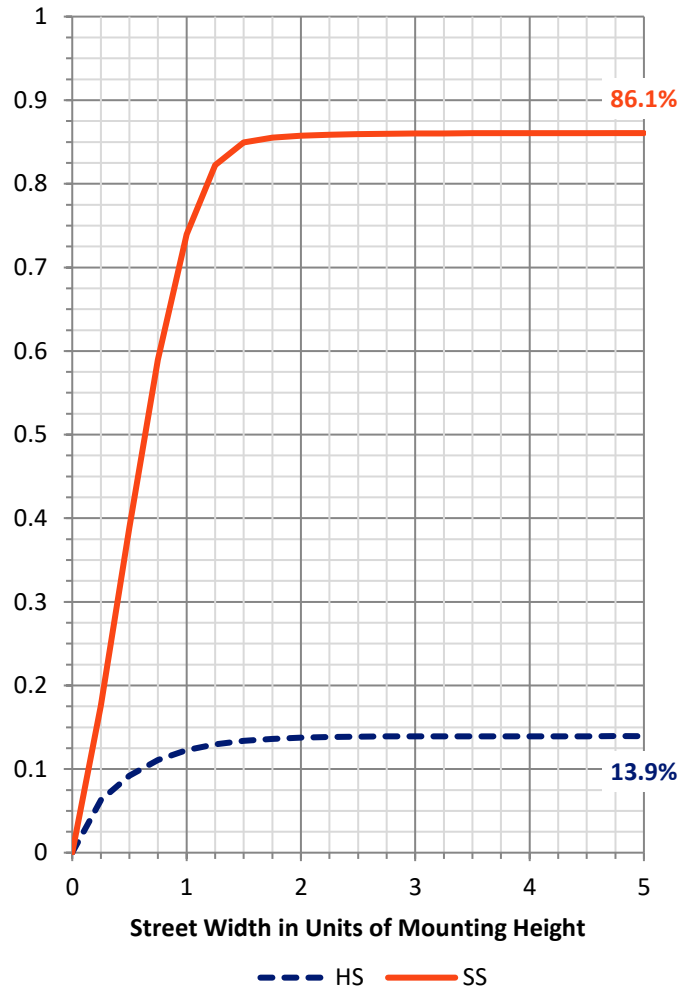
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	269.4	0.0	269.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	1653.9	0.0	1653.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	1923.3	0.0	1923.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	1.5
10°-20°	112.7	5.9
20°-30°	228.0	11.9
30°-40°	403.3	21.0
40°-50°	588.0	30.6
50°-60°	471.3	24.5
60°-70°	84.9	4.4
70°-80°	6.7	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°	1923.3	100.0
0°-180°	1923.3	100.0

Coefficient of Utilization



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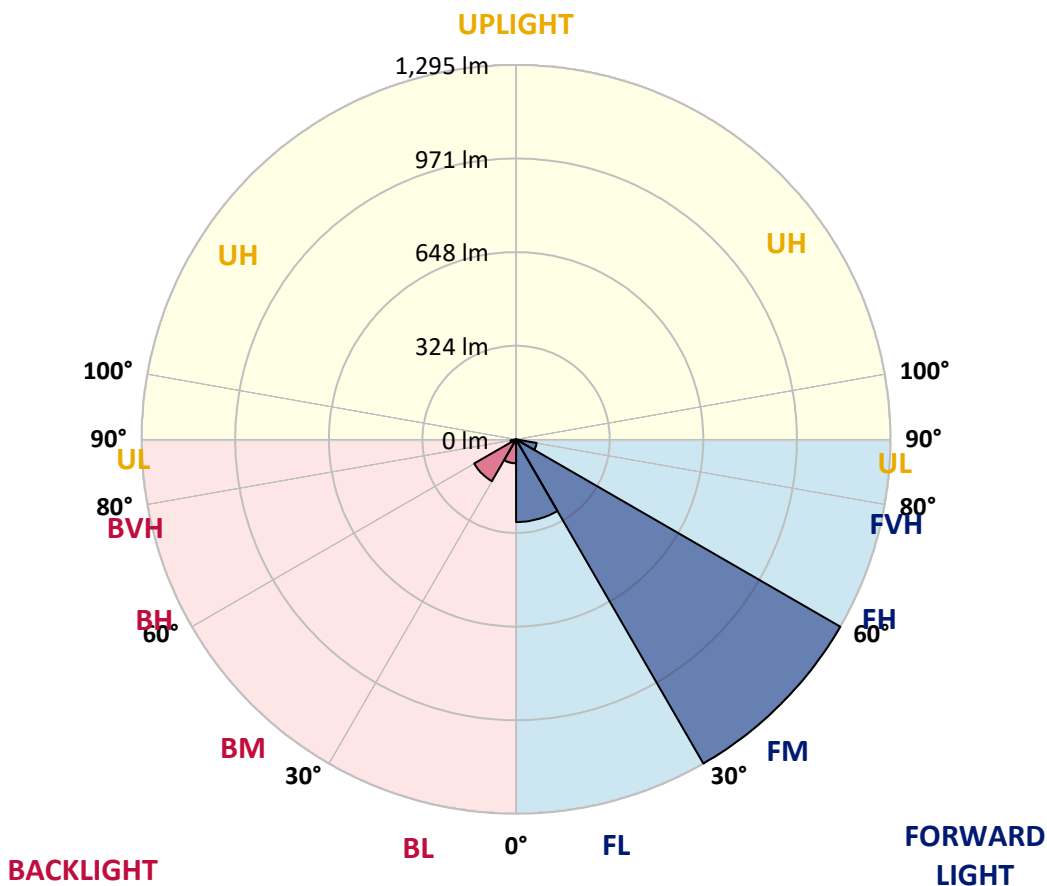
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.2	14.9			
FM (30°-60°)	1295.3	67.3			
FH (60°-80°)	72.5	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	82.9	4.3	B0/110		
BM (30°-60°)	167.3	8.7	B0/220		
BH (60°-80°)	19.1	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°	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7
2.5°	340.0	334.6	331.5	329.1	318.2	300.9	289.6	283.6	273.7	257.1	242.7
5°	443.6	439.7	432.5	427.6	413.6	389.1	363.8	353.8	331.3	293.7	260.0
7.5°	512.3	509.4	506.8	500.2	487.0	464.8	436.8	426.4	391.8	338.3	283.0
10°	565.2	562.9	559.8	559.6	549.3	529.4	502.0	491.1	453.7	386.9	310.2
12.5°	611.7	609.8	609.2	615.0	608.4	593.6	564.0	550.4	510.7	436.4	340.2
15°	643.5	643.1	645.8	657.1	660.8	654.0	629.1	614.5	568.9	486.2	373.3
17.5°	658.1	659.4	664.5	684.1	700.5	706.3	687.1	674.8	626.7	536.6	408.7
20°	683.0	682.6	685.7	704.2	724.4	744.9	739.2	728.7	685.1	589.9	448.0
22.5°	753.2	747.2	740.6	743.5	750.7	774.8	785.5	780.1	745.4	644.6	488.5
25°	860.9	854.8	833.6	813.0	799.4	810.3	824.9	827.6	805.2	700.7	530.8
27.5°	975.3	969.7	945.9	915.0	876.2	857.2	868.1	873.5	864.0	767.6	575.9
30°	1082.4	1075.0	1048.9	1010.7	965.6	936.6	924.3	928.0	933.5	846.7	628.7
32.5°	1175.4	1169.9	1138.6	1098.3	1054.9	1024.7	995.9	1002.0	1015.6	943.6	696.4
35°	1254.2	1251.3	1218.2	1178.1	1132.2	1116.8	1092.1	1093.3	1106.9	1060.6	778.9
37.5°	1322.7	1317.7	1287.7	1250.5	1214.1	1211.6	1204.8	1205.4	1212.4	1197.0	873.7
40°	1365.9	1361.3	1339.9	1316.9	1291.0	1291.4	1326.6	1329.3	1321.2	1330.9	973.9
42.5°	1382.1	1378.8	1367.3	1367.5	1364.8	1377.0	1443.0	1447.9	1419.1	1436.0	1059.4
45°	1353.9	1352.5	1353.3	1382.9	1415.0	1452.5	1538.2	1546.9	1506.1	1505.7	1126.3
47.5°	1263.0	1260.1	1284.2	1334.6	1408.8	1481.7	1595.8	1609.2	1567.0	1545.6	1168.2
50°	1084.9	1093.1	1131.2	1206.9	1319.8	1441.6	1595.2	1618.4	1569.3	1542.1	1161.2
52.5°	785.9	784.2	867.5	971.6	1109.0	1313.2	1510.5	1544.4	1514.4	1507.8	1145.6
55°	427.6	442.6	498.8	636.6	808.1	1070.3	1316.9	1391.0	1425.7	1495.2	1173.8
57.5°	157.1	163.7	198.9	296.4	427.8	665.6	1005.9	1117.6	1225.0	1460.3	1169.0
60°	63.3	64.6	78.6	109.0	179.8	338.7	603.4	702.6	803.8	1117.8	897.1
62.5°	46.1	47.7	53.3	63.8	90.9	148.1	260.2	302.5	330.7	553.7	442.0
65°	37.2	38.5	43.0	47.7	60.1	79.6	83.9	80.8	80.4	143.1	101.4
67.5°	30.9	32.1	35.4	38.7	43.2	39.7	28.8	30.2	24.7	24.5	20.0
70°	22.6	24.1	27.4	30.9	25.9	10.7	16.7	24.7	18.7	15.6	15.2
72.5°	17.1	18.1	21.2	20.2	7.6	4.1	11.1	17.9	14.4	11.5	11.3
75°	12.8	13.4	10.7	3.3	0.8	1.0	4.1	7.4	8.0	6.6	6.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	0.8	1.0	1.2
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°	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7
2.5°	234.5	225.8	213.5	203.2	195.4	187.8	182.0	176.3	176.1	173.2	172.6
5°	244.3	228.7	206.1	189.8	180.0	174.0	169.9	167.8	166.8	165.8	165.4
7.5°	258.5	236.1	204.8	187.6	179.3	175.4	172.6	171.3	170.7	169.9	169.7
10°	276.0	246.8	209.4	191.9	184.7	181.0	177.9	176.1	175.0	173.6	173.2
12.5°	297.0	260.0	216.6	199.1	191.5	186.5	182.4	179.8	178.3	176.5	176.1
15°	319.6	274.2	224.6	205.7	196.6	190.2	185.1	181.0	178.3	176.1	175.4
17.5°	343.1	288.6	231.8	210.2	199.1	191.5	184.1	178.5	175.2	172.4	171.5
20°	369.4	303.4	236.5	211.0	198.3	188.2	179.6	172.6	169.3	165.4	164.5
22.5°	396.9	317.1	238.6	209.2	193.7	182.0	172.8	165.6	160.8	156.7	155.5
25°	423.7	329.5	237.6	204.0	187.0	173.4	163.9	156.5	151.4	147.3	146.2
27.5°	452.1	339.8	233.8	196.4	177.7	163.9	154.9	148.5	143.8	139.2	138.2
30°	483.9	349.2	227.9	187.2	166.8	154.3	147.3	142.9	137.8	133.1	131.6
32.5°	522.4	357.7	219.2	176.1	157.1	145.8	141.9	138.6	132.7	127.7	126.7
35°	566.4	364.7	208.3	164.5	147.7	140.5	139.7	135.3	127.5	121.8	120.5
37.5°	617.4	371.4	195.4	153.2	140.7	138.0	138.2	130.8	121.3	114.4	113.5
40°	672.3	378.2	181.0	143.4	134.3	136.6	134.7	124.2	108.8	102.0	101.2
42.5°	729.5	385.6	166.4	134.1	129.0	131.0	128.3	111.1	100.0	96.5	96.0
45°	781.1	394.5	150.6	124.8	123.6	123.0	118.5	100.6	95.8	93.4	93.2
47.5°	818.4	393.0	133.7	116.0	117.8	115.8	102.0	95.6	91.7	88.4	87.6
50°	811.6	367.9	116.2	106.1	110.4	108.6	91.7	89.9	86.4	82.9	81.7
52.5°	794.3	333.8	101.0	95.6	102.4	98.1	84.7	82.9	79.8	75.3	73.8
55°	803.6	301.7	89.1	87.2	94.2	81.2	76.9	74.0	70.8	65.8	65.2
57.5°	773.7	246.2	71.6	72.8	83.3	69.3	67.5	62.9	57.4	54.1	53.7
60°	535.6	132.2	44.8	46.3	60.3	58.2	60.5	56.4	49.6	46.5	45.9
62.5°	246.0	53.1	24.5	23.4	31.7	39.5	51.8	51.4	43.0	38.0	37.6
65°	59.6	24.3	17.5	16.5	17.9	23.7	33.7	40.5	34.8	29.0	28.4
67.5°	19.3	19.7	16.0	15.0	15.8	17.7	20.2	22.4	22.2	20.4	20.0
70°	15.4	17.9	14.8	13.6	13.6	14.2	13.6	10.9	9.5	10.3	10.7
72.5°	11.5	13.6	11.7	10.5	10.1	9.9	8.4	6.2	4.3	3.9	3.7
75°	6.8	7.6	7.2	6.2	5.8	5.1	4.1	2.7	1.4	1.0	0.6
77.5°	1.2	1.4	1.6	1.2	1.0	0.8	0.6	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.2	0.2	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)