

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: P628869

Luminaire Tested: GWS-SA1A-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628869
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1906.3 lumens
Efficiency: N/A
Efficacy: 96.8 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

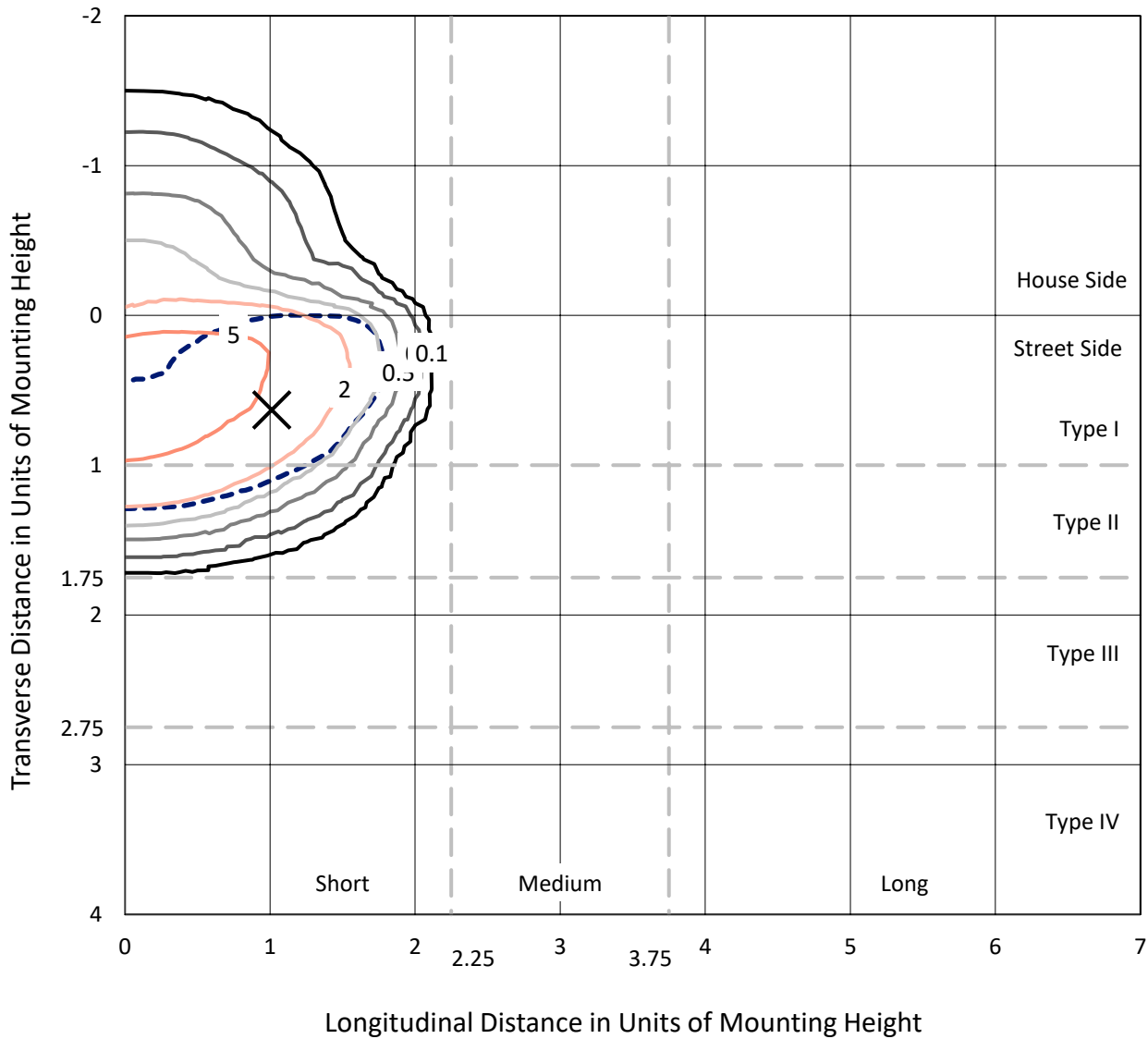
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

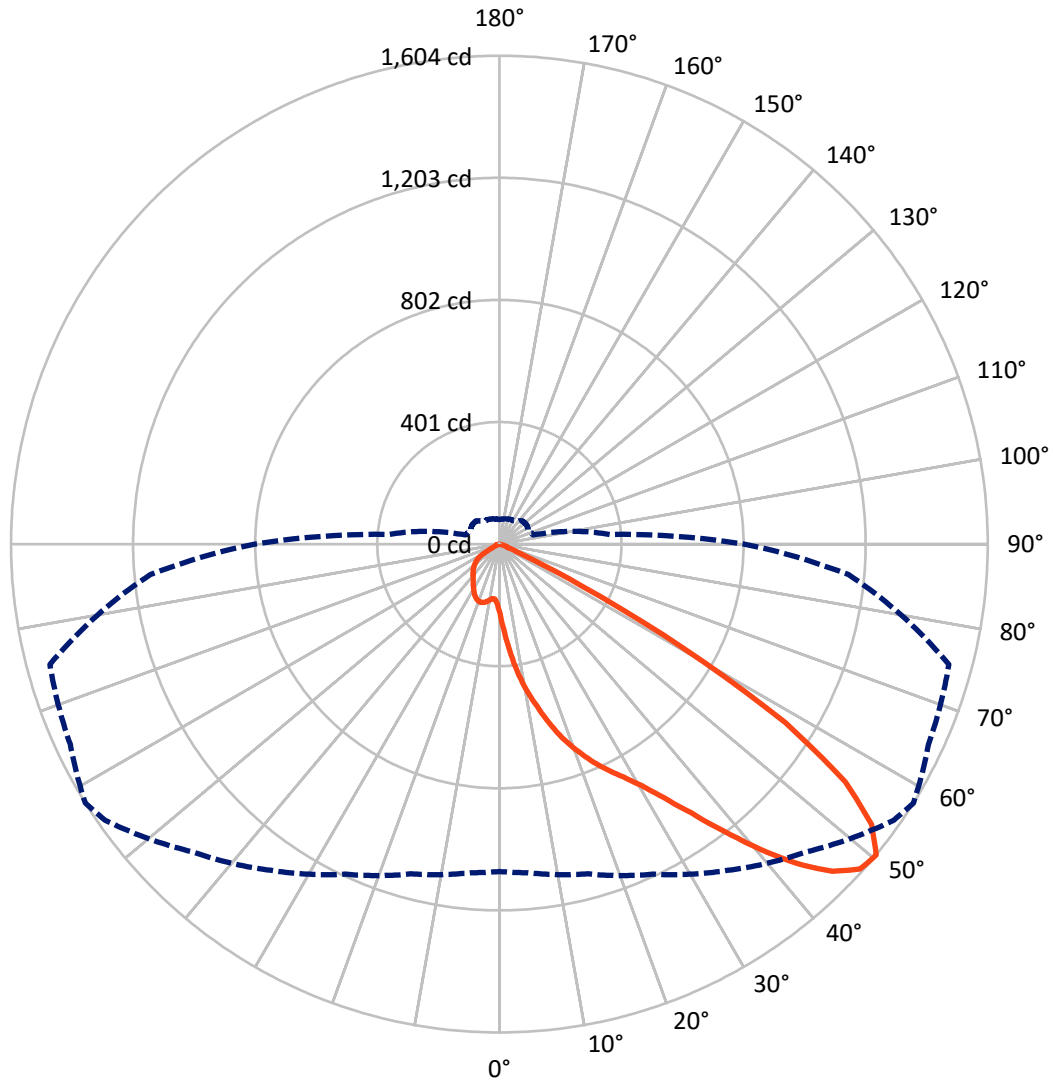
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 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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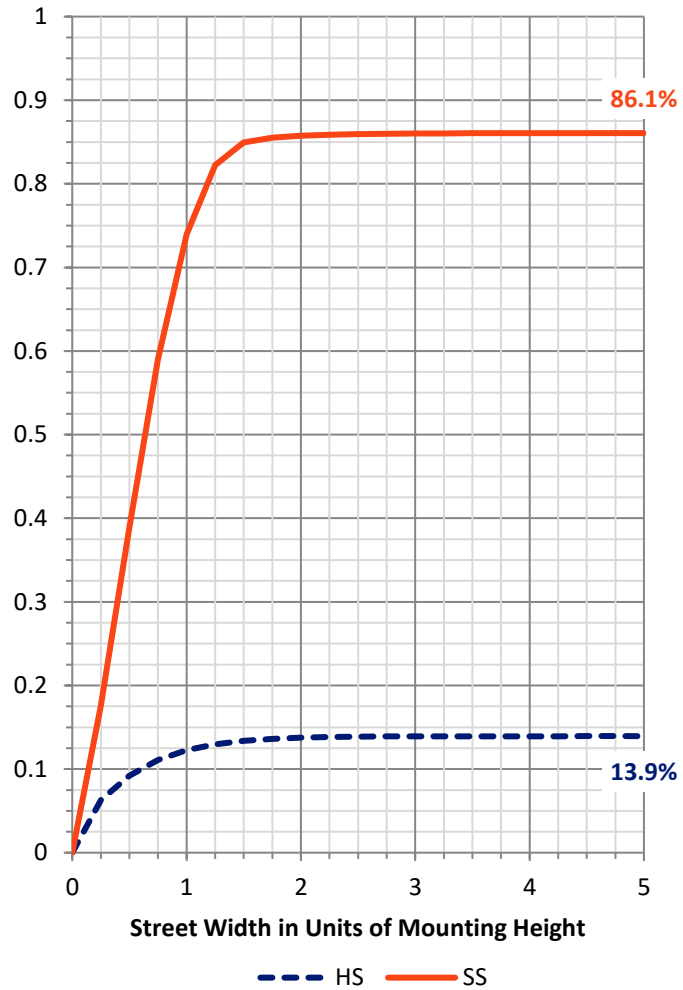
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	267.0	0.0	267.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	1639.3	0.0	1639.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	1906.3	0.0	1906.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	1.5
10°-20°	111.7	5.9
20°-30°	226.0	11.9
30°-40°	399.8	21.0
40°-50°	582.8	30.6
50°-60°	467.1	24.5
60°-70°	84.2	4.4
70°-80°	6.6	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°	1906.3	100.0
0°-180°	1906.3	100.0

Coefficient of Utilization



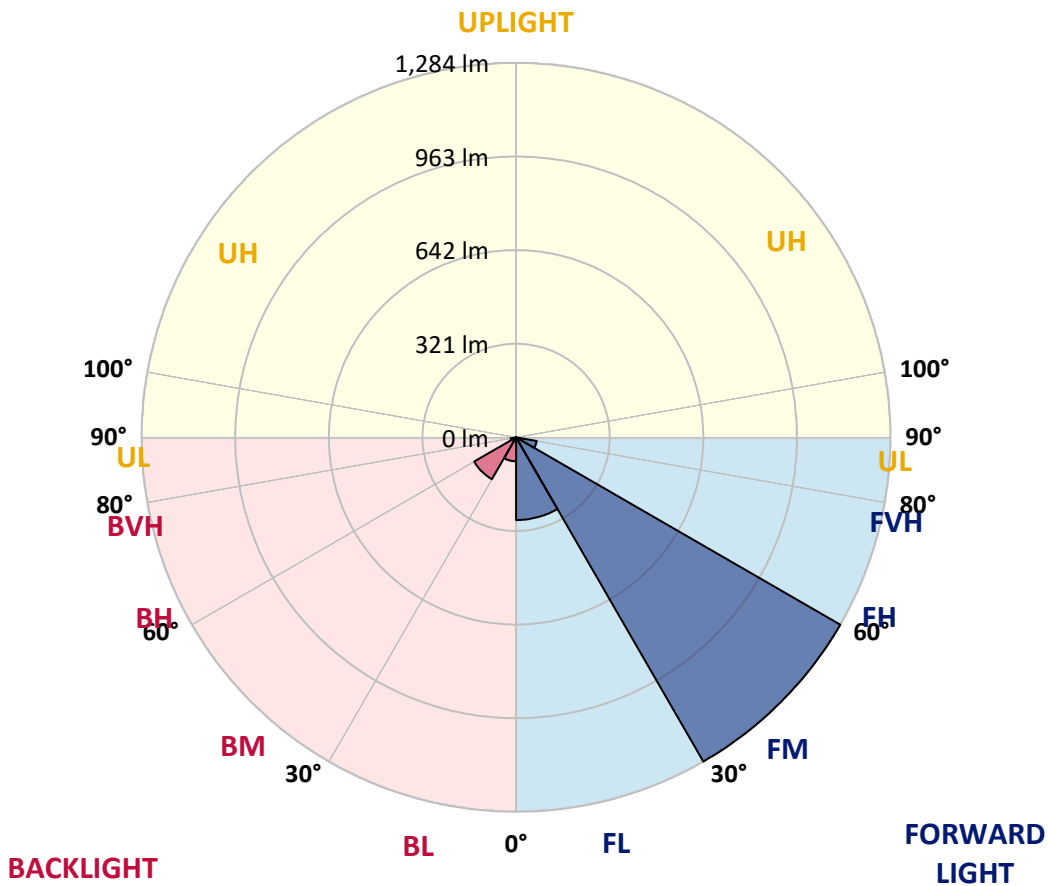
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.7	14.9			
FM (30°-60°)	1283.8	67.3			
FH (60°-80°)	71.8	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	82.2	4.3	B0/110		
BM (30°-60°)	165.8	8.7	B0/220		
BH (60°-80°)	19.0	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°	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7
2.5°	337.0	331.7	328.6	326.2	315.4	298.2	287.0	281.1	271.3	254.8	240.5
5°	439.7	435.8	428.7	423.8	409.9	385.7	360.6	350.6	328.4	291.1	257.7
7.5°	507.8	504.9	502.3	495.8	482.7	460.7	433.0	422.6	388.3	335.3	280.5
10°	560.2	557.9	554.9	554.7	544.5	524.7	497.6	486.8	449.7	383.4	307.4
12.5°	606.3	604.4	603.8	609.5	603.0	588.3	559.0	545.5	506.2	432.6	337.2
15°	637.9	637.4	640.1	651.3	655.0	648.3	623.6	609.1	563.9	481.9	370.0
17.5°	652.3	653.6	658.7	678.0	694.3	700.0	681.1	668.8	621.1	531.9	405.1
20°	677.0	676.6	679.6	698.0	718.0	738.4	732.6	722.3	679.0	584.7	444.0
22.5°	746.5	740.6	734.1	736.9	744.1	767.9	778.5	773.2	738.8	638.9	484.2
25°	853.3	847.2	826.2	805.8	792.4	803.2	817.7	820.3	798.1	694.5	526.1
27.5°	966.7	961.2	937.5	906.9	868.4	849.7	860.5	865.8	856.4	760.8	570.8
30°	1072.9	1065.5	1039.7	1001.7	957.1	928.3	916.1	919.8	925.3	839.3	623.2
32.5°	1165.0	1159.5	1128.5	1088.6	1045.6	1015.6	987.1	993.2	1006.6	935.3	690.2
35°	1243.1	1240.2	1207.4	1167.7	1122.2	1106.9	1082.5	1083.7	1097.1	1051.3	772.0
37.5°	1311.0	1306.1	1276.3	1239.4	1203.3	1200.9	1194.2	1194.8	1201.7	1186.4	866.0
40°	1353.8	1349.3	1328.1	1305.3	1279.6	1280.0	1314.9	1317.5	1309.6	1319.1	965.2
42.5°	1369.9	1366.6	1355.2	1355.4	1352.8	1364.8	1430.2	1435.1	1406.6	1423.3	1050.0
45°	1342.0	1340.5	1341.4	1370.7	1402.5	1439.6	1524.6	1533.2	1492.8	1492.4	1116.3
47.5°	1251.9	1249.0	1272.9	1322.8	1396.4	1468.6	1581.7	1594.9	1553.2	1532.0	1157.9
50°	1075.3	1083.5	1121.2	1196.2	1308.1	1428.8	1581.1	1604.1	1555.4	1528.5	1151.0
52.5°	778.9	777.3	859.9	963.0	1099.2	1301.6	1497.1	1530.7	1501.0	1494.4	1135.5
55°	423.8	438.7	494.3	630.9	800.9	1060.9	1305.3	1378.7	1413.1	1482.0	1163.4
57.5°	155.7	162.3	197.1	293.8	424.0	659.7	997.0	1107.7	1214.2	1447.4	1158.7
60°	62.8	64.0	77.9	108.0	178.2	335.7	598.1	696.4	796.7	1107.9	889.2
62.5°	45.7	47.3	52.8	63.2	90.1	146.8	257.9	299.9	327.8	548.8	438.1
65°	36.9	38.1	42.6	47.3	59.5	78.9	83.2	80.1	79.7	141.9	100.5
67.5°	30.6	31.8	35.1	38.3	42.8	39.3	28.5	30.0	24.5	24.3	19.8
70°	22.4	23.9	27.1	30.6	25.7	10.6	16.5	24.5	18.6	15.5	15.1
72.5°	16.9	17.9	21.0	20.0	7.5	4.1	11.0	17.7	14.3	11.4	11.2
75°	12.6	13.3	10.6	3.3	0.8	1.0	4.1	7.3	8.0	6.5	6.5
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°	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7
2.5°	232.4	223.8	211.6	201.4	193.7	186.1	180.4	174.7	174.5	171.6	171.0
5°	242.2	226.7	204.3	188.2	178.4	172.5	168.4	166.3	165.3	164.3	163.9
7.5°	256.2	234.0	203.0	185.9	177.8	173.9	171.0	169.8	169.2	168.4	168.2
10°	273.6	244.6	207.5	190.2	183.1	179.4	176.3	174.5	173.5	172.1	171.6
12.5°	294.4	257.7	214.7	197.3	189.8	184.9	180.8	178.2	176.7	174.9	174.5
15°	316.8	271.7	222.6	203.9	194.9	188.6	183.5	179.4	176.7	174.5	173.9
17.5°	340.0	286.0	229.7	208.3	197.3	189.8	182.4	176.9	173.7	170.8	170.0
20°	366.1	300.7	234.4	209.2	196.5	186.5	178.0	171.0	167.8	163.9	163.1
22.5°	393.4	314.3	236.5	207.3	192.0	180.4	171.2	164.1	159.4	155.3	154.1
25°	419.9	326.6	235.5	202.2	185.3	171.8	162.5	155.1	150.0	146.0	144.9
27.5°	448.1	336.8	231.8	194.7	176.1	162.5	153.5	147.2	142.5	138.0	137.0
30°	479.7	346.1	225.9	185.5	165.3	152.9	146.0	141.7	136.6	131.9	130.5
32.5°	517.8	354.5	217.3	174.5	155.7	144.5	140.7	137.4	131.5	126.6	125.6
35°	561.4	361.4	206.5	163.1	146.4	139.2	138.4	134.1	126.4	120.7	119.5
37.5°	612.0	368.2	193.7	151.9	139.4	136.8	137.0	129.7	120.3	113.3	112.5
40°	666.4	374.9	179.4	142.1	133.1	135.4	133.5	123.1	107.8	101.1	100.3
42.5°	723.1	382.2	164.9	132.9	127.8	129.9	127.2	110.1	99.1	95.6	95.2
45°	774.2	391.0	149.2	123.7	122.5	121.9	117.4	99.7	95.0	92.5	92.3
47.5°	811.1	389.6	132.5	115.0	116.8	114.8	101.1	94.8	90.9	87.7	86.8
50°	804.4	364.7	115.2	105.2	109.5	107.6	90.9	89.1	85.6	82.2	80.9
52.5°	787.3	330.9	100.1	94.8	101.5	97.2	84.0	82.2	79.1	74.6	73.2
55°	796.5	299.1	88.3	86.4	93.4	80.5	76.2	73.4	70.1	65.2	64.6
57.5°	766.9	244.0	70.9	72.2	82.6	68.7	66.9	62.4	56.9	53.6	53.2
60°	530.8	131.1	44.4	45.9	59.7	57.7	59.9	55.9	49.1	46.1	45.5
62.5°	243.8	52.6	24.3	23.2	31.4	39.1	51.4	51.0	42.6	37.7	37.3
65°	59.1	24.1	17.3	16.3	17.7	23.4	33.4	40.2	34.5	28.7	28.1
67.5°	19.2	19.6	15.9	14.9	15.7	17.5	20.0	22.2	22.0	20.2	19.8
70°	15.3	17.7	14.7	13.5	13.5	14.1	13.5	10.8	9.4	10.2	10.6
72.5°	11.4	13.5	11.6	10.4	10.0	9.8	8.4	6.1	4.3	3.9	3.7
75°	6.7	7.5	7.1	6.1	5.7	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)