

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: P629585

Luminaire Tested: GWS-SA1B-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-830-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2505.7 lumens
Efficiency: N/A
Efficacy: 100.2 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

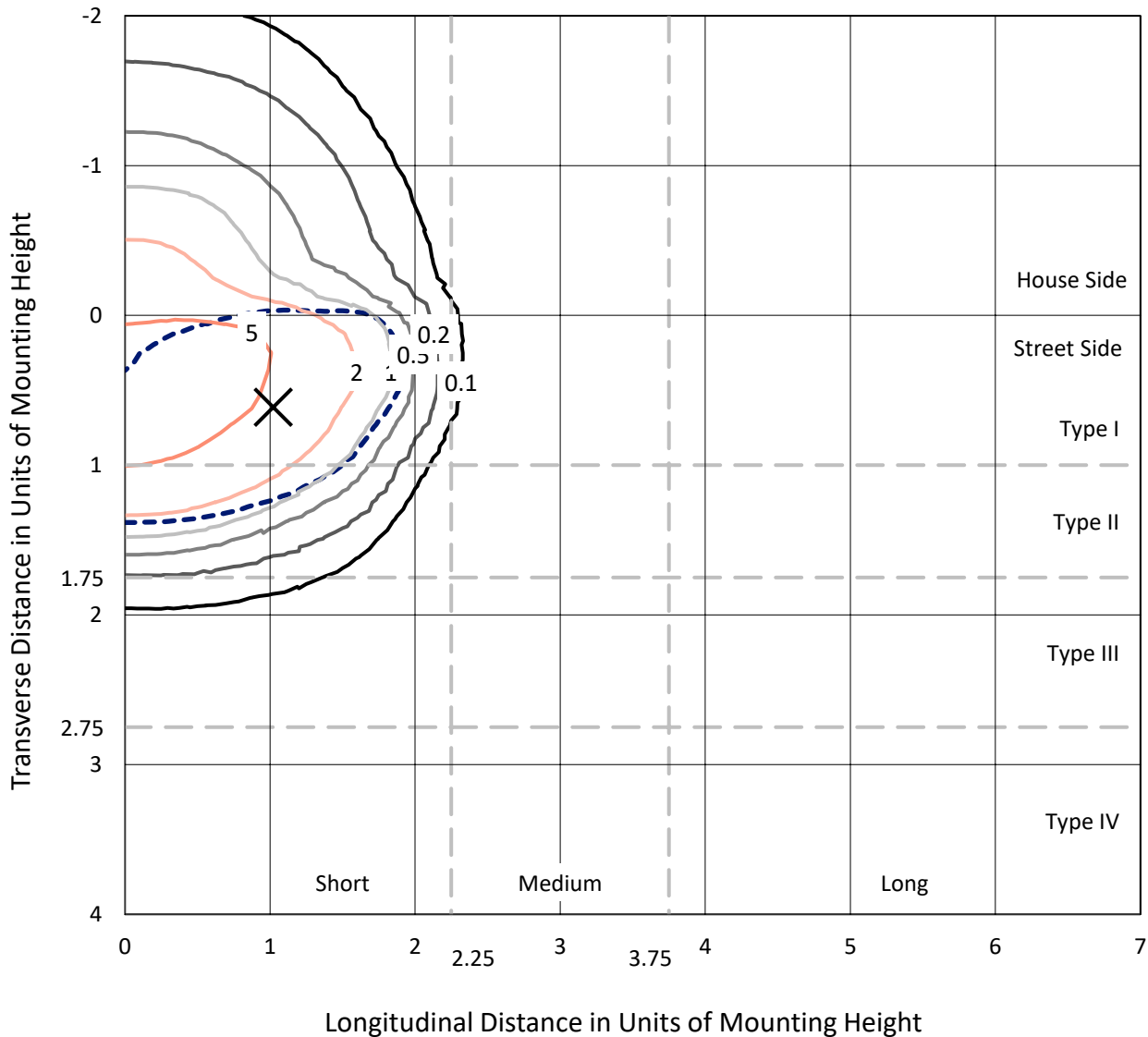
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

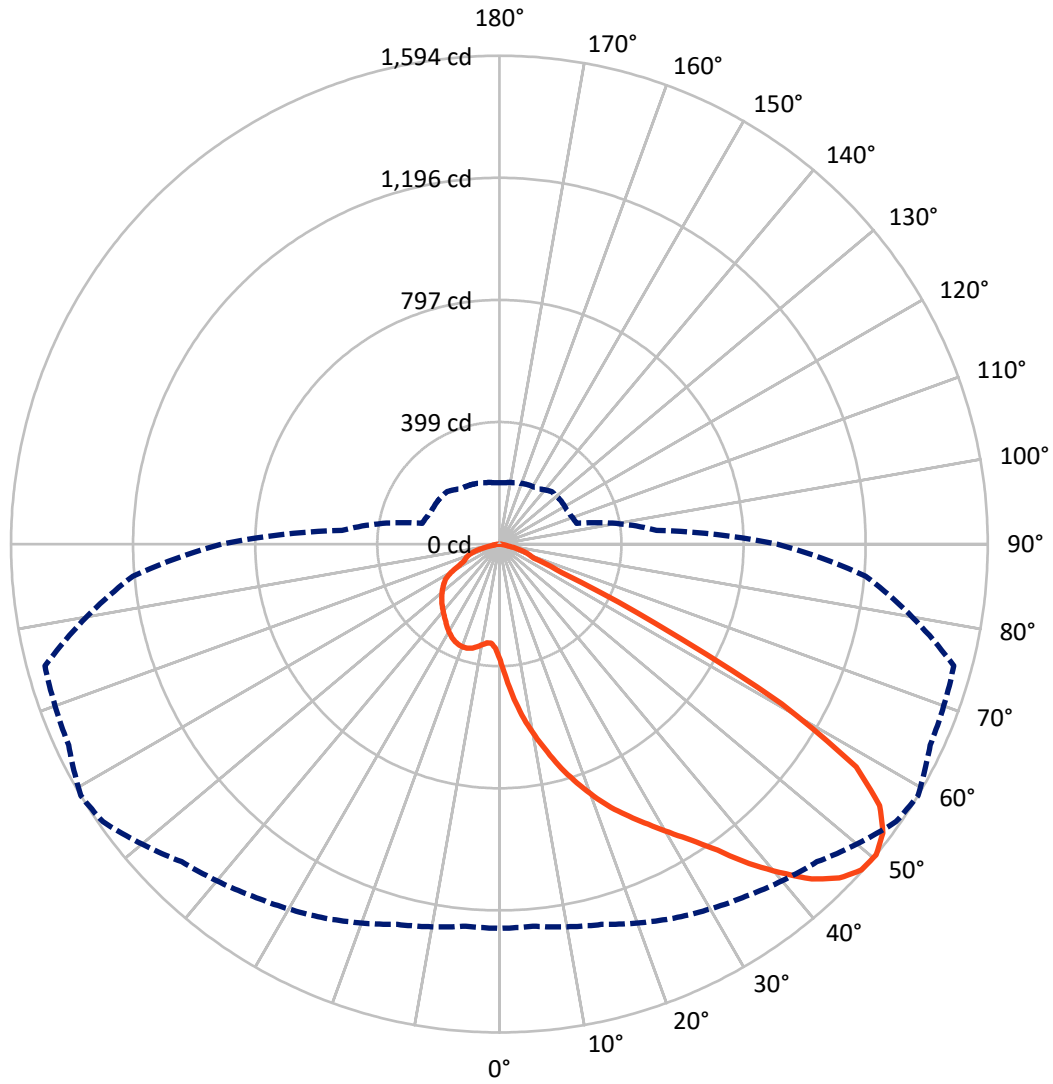
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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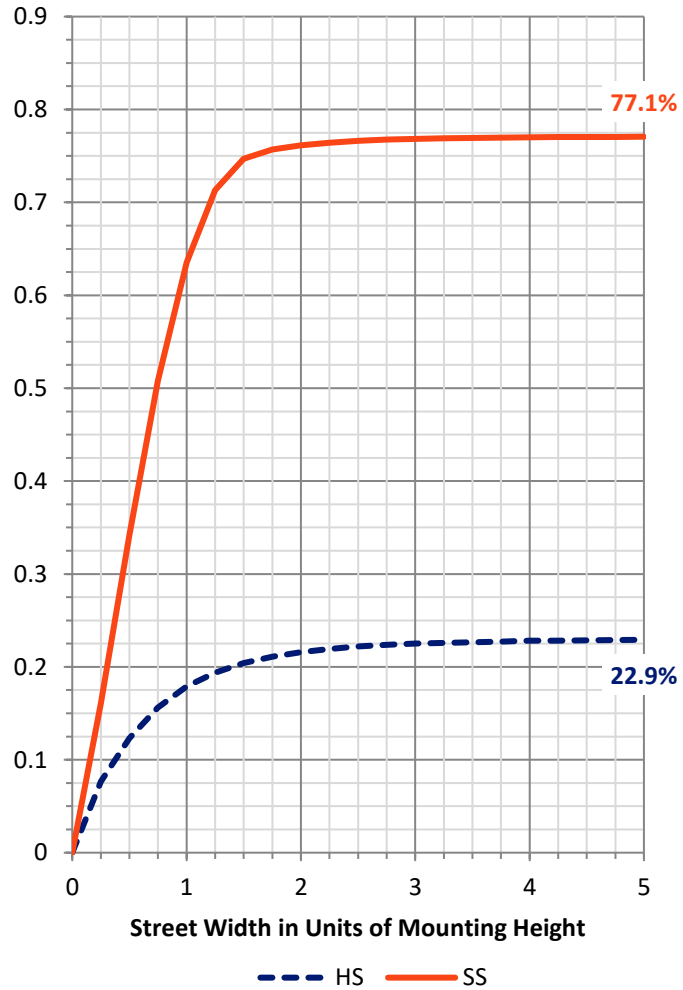
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	576.4	0.0	576.4
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	1929.3	0.0	1929.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	2505.7	0.0	2505.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	1.7
10°-20°	154.6	6.2
20°-30°	292.8	11.7
30°-40°	485.5	19.4
40°-50°	663.2	26.5
50°-60°	602.0	24.0
60°-70°	200.5	8.0
70°-80°	58.5	2.3
80°-90°	6.1	0.2
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°	2505.7	100.0
0°-180°	2505.7	100.0

Coefficient of Utilization



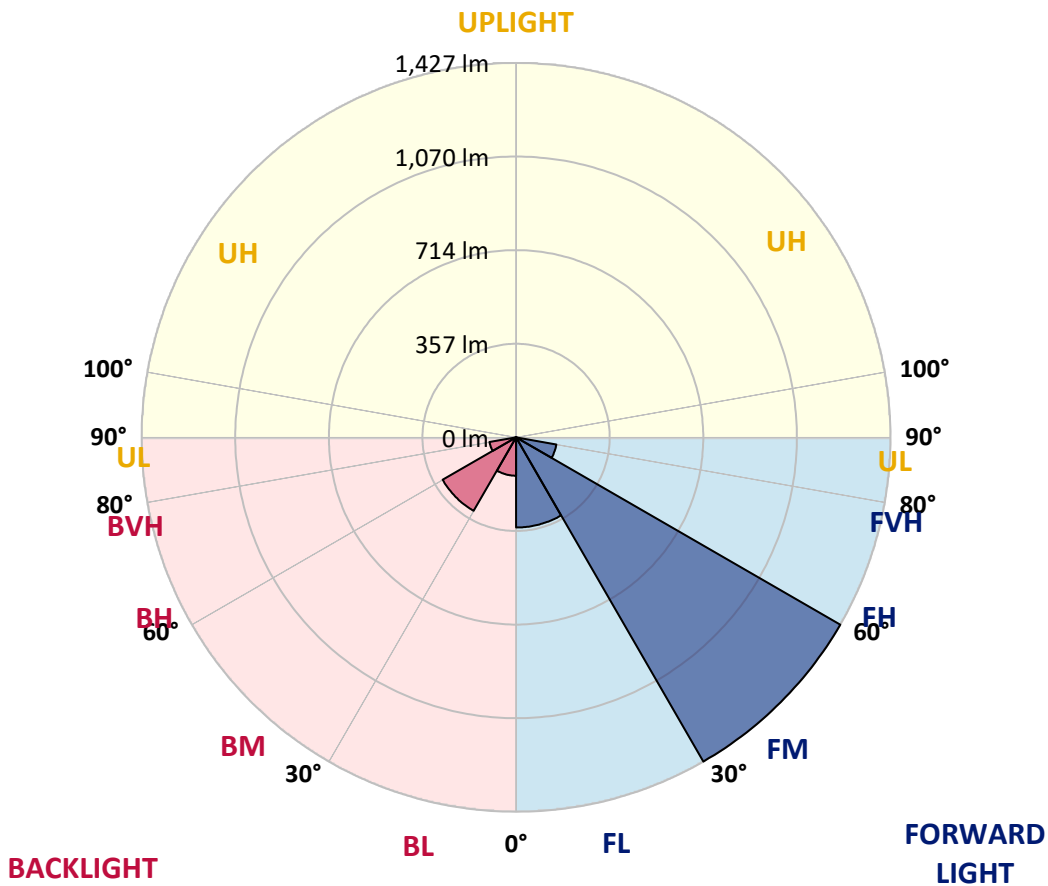
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.6	13.7			
FM (30°-60°)	1427.3	57.0			
FH (60°-80°)	156.1	6.2			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	146.4	5.8	B1/500		
BM (30°-60°)	323.4	12.9	B1/1000		
BH (60°-80°)	102.9	4.1	B0/110		G0/110
BVH (80°-90°)	3.7	0.1			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°	55°	59°	65°	75°	85°
0°	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6
2.5°	491.9	495.6	489.8	490.3	476.0	469.4	451.1	440.2	433.1	413.1	394.9
5°	591.1	586.8	582.3	579.7	567.2	549.6	526.8	508.6	491.9	452.7	414.9
7.5°	651.9	649.7	646.6	645.0	632.7	614.3	591.5	576.0	551.7	498.6	439.2
10°	703.5	700.9	699.1	700.3	690.3	678.4	653.5	635.8	608.4	547.2	468.6
12.5°	743.5	745.0	745.6	752.1	747.8	740.7	715.0	696.2	665.8	598.4	503.1
15°	775.2	774.8	781.9	794.4	801.3	796.8	776.2	760.5	723.3	648.8	540.3
17.5°	782.5	782.9	794.2	816.0	838.7	849.7	838.0	819.3	782.5	698.6	578.8
20°	788.4	789.3	800.9	825.8	858.9	889.7	891.5	878.1	846.4	752.5	618.0
22.5°	825.8	827.6	830.7	846.4	876.2	915.2	936.6	933.8	907.2	809.1	660.3
25°	924.0	918.5	903.6	899.1	910.5	942.1	978.7	984.2	971.1	871.3	705.8
27.5°	1045.2	1039.3	1017.2	994.0	969.3	980.3	1019.3	1035.8	1036.0	939.9	751.5
30°	1155.2	1150.5	1132.6	1099.3	1056.6	1040.7	1069.5	1091.7	1105.0	1019.1	803.6
32.5°	1249.3	1245.0	1220.7	1193.6	1152.0	1119.9	1130.3	1151.8	1182.8	1121.5	868.3
35°	1328.5	1324.2	1301.0	1273.6	1235.0	1215.8	1212.2	1226.9	1267.1	1228.5	942.5
37.5°	1392.8	1388.5	1364.2	1338.5	1309.1	1310.3	1315.9	1323.0	1346.1	1343.0	1021.9
40°	1434.4	1429.9	1412.6	1394.2	1375.7	1390.3	1417.7	1409.1	1421.4	1435.5	1095.0
42.5°	1453.0	1447.3	1437.3	1433.2	1427.5	1450.4	1503.0	1494.4	1479.7	1497.1	1149.3
45°	1434.4	1429.5	1429.3	1441.8	1455.0	1484.4	1562.0	1555.1	1517.9	1526.9	1181.8
47.5°	1377.5	1373.2	1384.8	1417.5	1450.2	1493.0	1588.3	1589.6	1545.1	1539.3	1202.8
50°	1254.4	1251.6	1285.2	1347.1	1403.4	1466.3	1580.0	1594.0	1551.6	1535.5	1200.1
52.5°	1004.2	1017.5	1090.7	1194.0	1303.4	1419.3	1548.9	1567.3	1520.2	1510.0	1185.8
55°	687.4	693.5	766.8	917.6	1091.1	1317.7	1477.7	1506.1	1483.0	1505.7	1200.7
57.5°	356.0	360.9	418.6	552.5	740.1	1041.3	1279.9	1373.0	1408.1	1527.3	1247.1
60°	146.1	150.2	174.1	238.8	373.3	606.4	921.1	1059.1	1141.5	1394.8	1107.5
62.5°	106.1	108.2	119.6	142.5	195.5	297.2	521.3	572.1	630.1	874.2	703.1
65°	89.4	91.6	100.8	114.7	142.7	182.3	222.7	223.9	246.8	356.2	260.6
67.5°	74.9	76.9	85.1	96.9	115.3	129.4	119.6	119.8	119.4	129.2	124.9
70°	58.4	60.0	68.2	80.8	90.4	83.1	93.5	103.5	99.2	103.1	109.0
72.5°	42.7	44.5	51.6	61.2	58.8	59.2	75.7	85.9	83.5	87.8	93.3
75°	30.8	32.0	35.7	30.6	32.2	39.0	53.3	58.8	61.2	64.9	69.8
77.5°	10.0	10.0	11.2	14.1	17.6	21.6	27.1	29.4	33.1	37.1	40.6
80°	5.1	5.3	6.3	7.8	9.8	12.5	15.9	16.9	18.8	21.0	22.5
82.5°	2.4	2.7	3.1	3.9	5.1	6.5	8.8	9.8	11.0	12.5	13.5
85°	0.6	0.6	0.8	1.2	1.6	2.4	3.3	3.9	4.9	5.9	6.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	1.0	1.2	1.6
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°	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6
2.5°	386.8	375.3	360.6	348.2	336.8	328.0	320.4	316.8	313.3	310.8	311.7
5°	397.4	377.8	350.4	331.5	319.8	313.9	309.8	307.8	307.4	305.7	305.1
7.5°	412.9	384.9	348.4	329.2	321.5	318.4	316.2	314.9	315.5	313.9	313.3
10°	432.1	396.8	353.5	336.6	329.8	327.6	325.1	323.5	322.7	320.2	319.8
12.5°	456.0	411.5	362.7	346.0	339.2	335.3	332.1	329.2	327.4	324.3	323.5
15°	481.7	427.8	373.5	355.1	347.2	341.5	336.2	331.9	328.6	324.5	323.9
17.5°	509.6	444.9	382.5	361.5	351.3	343.7	336.0	329.6	325.1	319.8	319.2
20°	538.8	462.3	389.2	364.5	351.5	341.3	330.9	322.5	316.8	311.5	311.1
22.5°	569.0	478.2	393.3	363.7	348.2	335.5	323.1	313.7	307.0	300.6	300.2
25°	599.5	493.5	394.3	360.4	341.7	327.0	314.5	303.5	295.9	288.8	288.0
27.5°	630.3	506.4	391.9	353.9	332.9	317.0	304.5	293.7	285.9	278.8	277.6
30°	663.1	517.4	386.6	345.3	322.7	306.4	294.1	285.9	278.6	271.5	270.2
32.5°	698.2	527.0	379.0	334.9	310.8	295.7	286.8	279.4	272.1	265.7	264.5
35°	740.1	533.3	367.8	321.5	299.8	288.0	281.9	273.3	264.3	257.4	256.8
37.5°	783.3	538.2	354.3	308.6	290.2	283.5	278.4	266.8	255.5	247.2	246.1
40°	825.2	542.3	337.6	296.6	281.5	280.2	273.3	258.8	239.4	230.0	229.2
42.5°	864.2	543.5	320.0	283.7	273.5	272.9	265.1	242.7	227.8	221.9	221.0
45°	890.9	542.5	301.9	271.7	265.5	262.3	254.1	231.0	221.9	216.6	215.5
47.5°	910.7	537.2	281.5	259.0	256.6	252.1	234.5	223.7	215.1	209.8	208.8
50°	907.2	515.2	260.8	246.8	245.7	241.9	220.2	214.5	207.0	201.2	200.4
52.5°	889.3	473.3	239.8	233.3	235.3	227.8	210.0	203.5	197.0	190.4	189.0
55°	893.8	443.1	223.9	220.2	223.9	206.8	198.6	191.7	185.5	179.2	178.0
57.5°	913.4	413.3	207.0	206.1	210.0	190.6	183.9	175.1	166.3	161.2	161.2
60°	767.0	301.3	177.2	179.2	188.0	177.6	171.7	162.7	153.1	148.6	148.6
62.5°	453.5	189.0	147.0	144.7	150.2	156.8	160.0	152.7	141.2	135.3	135.5
65°	199.8	137.6	129.6	127.8	126.1	130.6	139.6	140.2	128.2	121.2	121.4
67.5°	123.1	124.5	121.2	119.8	118.4	117.6	116.7	117.2	113.9	107.6	107.4
70°	111.0	114.9	112.7	111.4	109.6	108.2	103.3	95.3	89.8	88.2	90.0
72.5°	95.5	100.8	99.6	99.0	96.7	93.3	86.7	79.0	72.5	68.4	69.2
75°	72.0	76.3	76.9	77.2	74.7	71.4	64.7	58.2	52.5	48.2	49.2
77.5°	41.4	43.9	44.5	45.1	43.3	42.0	37.6	32.9	29.8	25.3	26.5
80°	23.1	24.1	24.1	24.3	23.3	21.8	18.8	16.1	14.7	12.7	12.9
82.5°	13.9	14.3	14.5	14.7	14.1	12.7	10.4	8.6	7.8	6.7	6.5
85°	6.7	7.1	7.1	7.3	6.3	5.5	4.3	3.3	2.9	2.0	2.2
87.5°	1.6	1.8	1.8	1.6	1.4	1.0	0.6	0.2	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)