

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: P629555

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-830-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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: 2582.9 lumens
Efficiency: N/A
Efficacy: 103.3 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

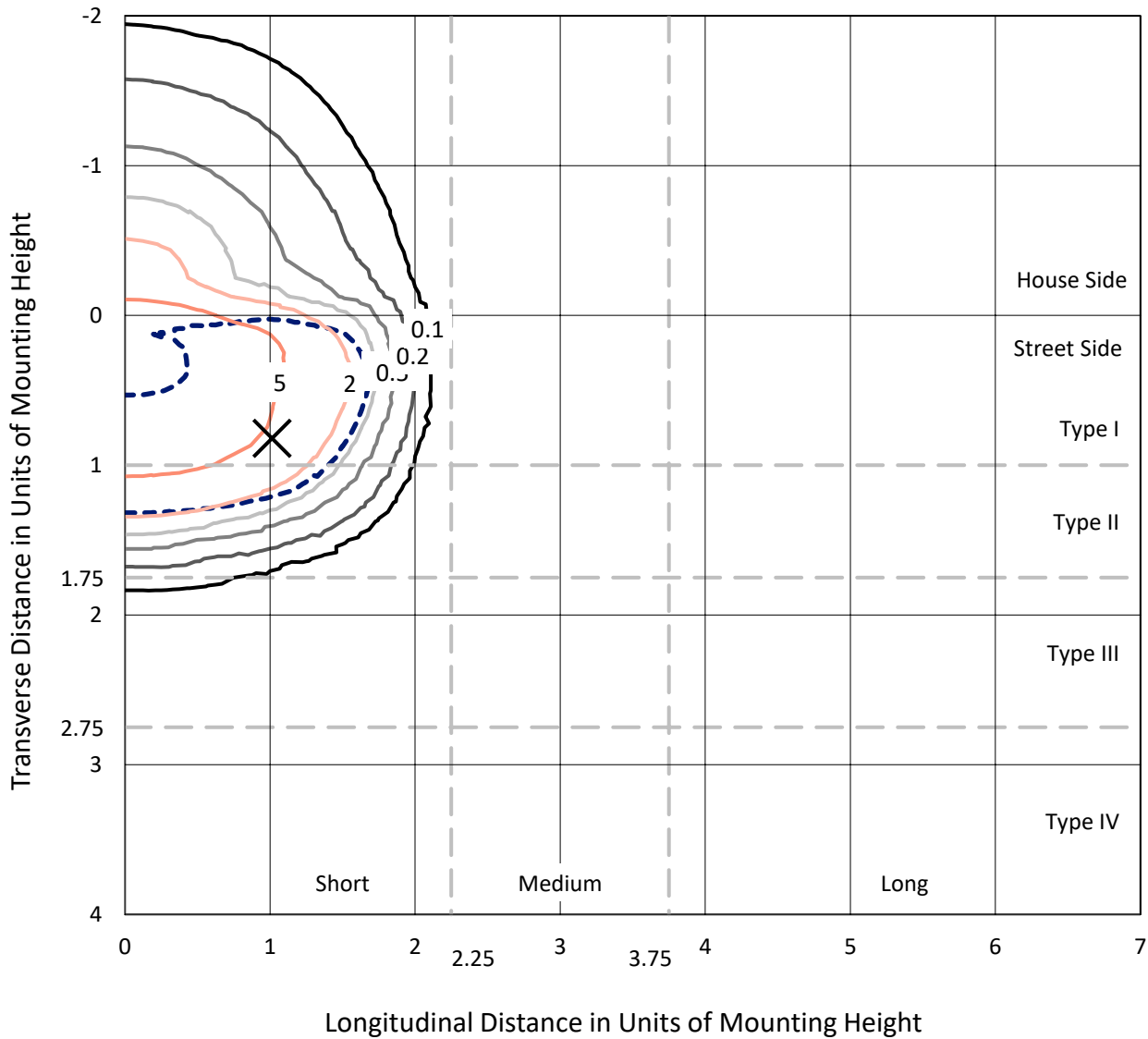
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

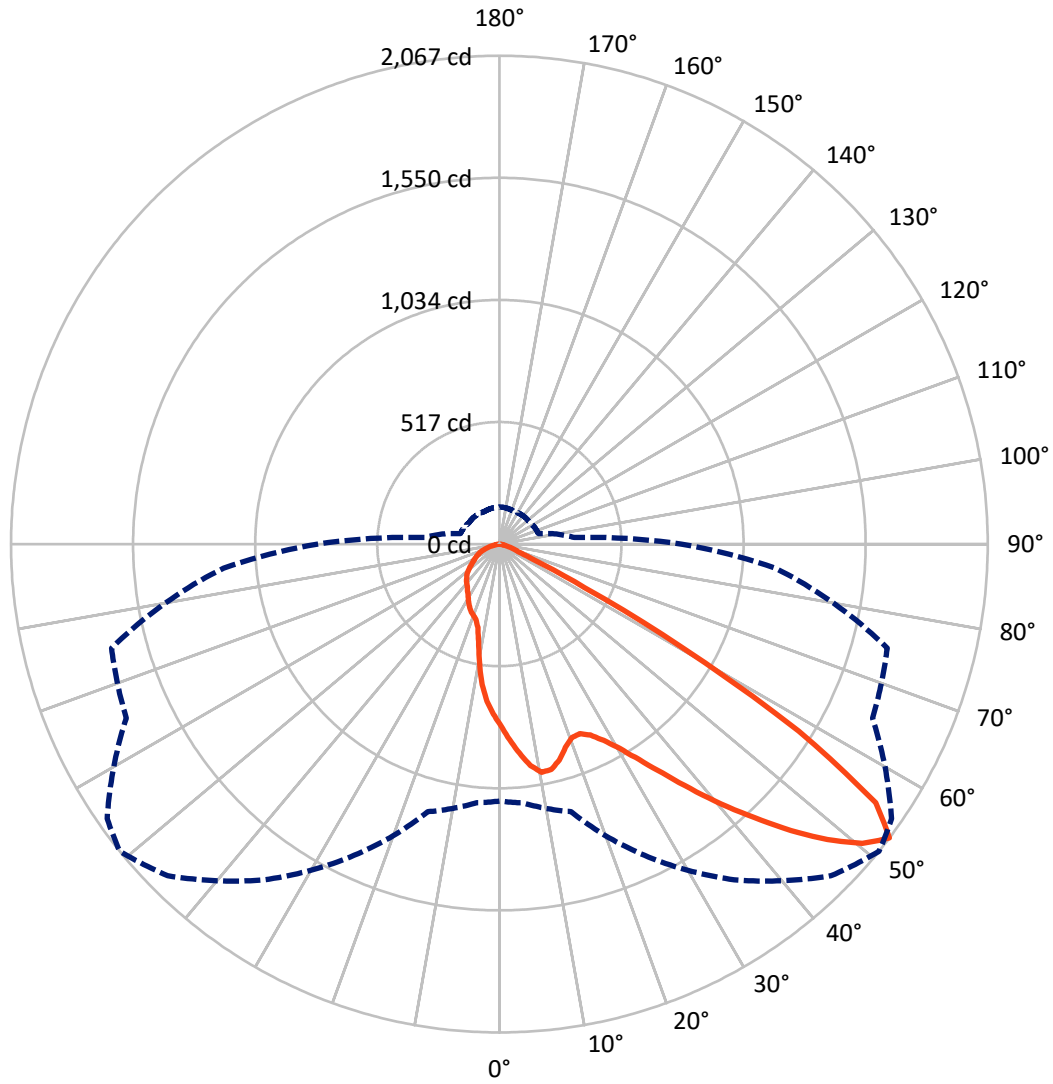
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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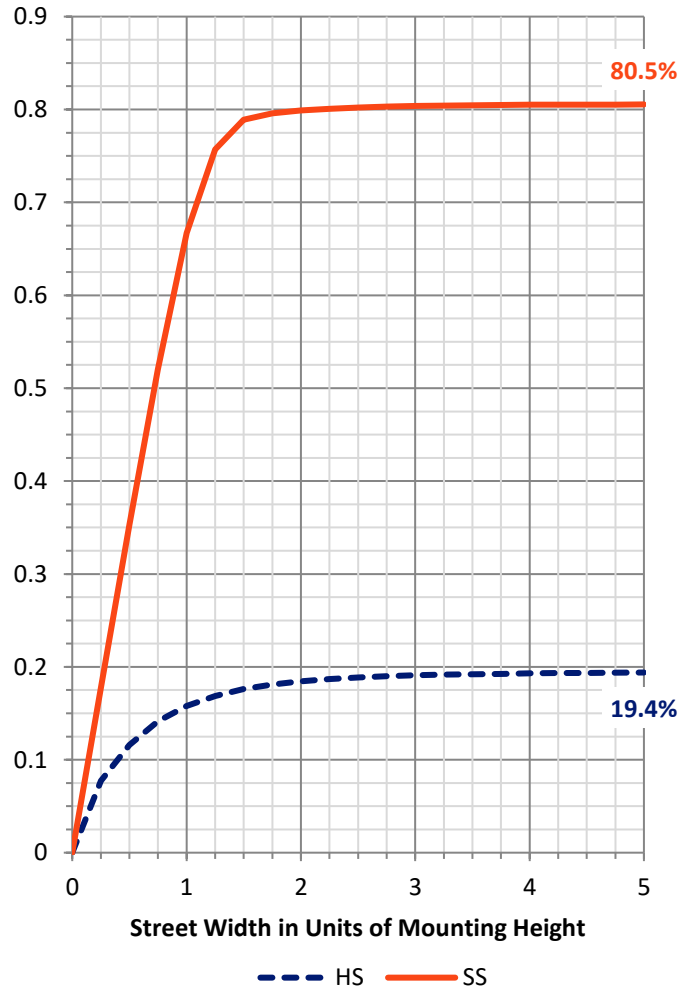
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	503.3	0.0	503.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2079.6	0.0	2079.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	2582.9	0.0	2582.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	2.8
10°-20°	186.5	7.2
20°-30°	303.2	11.7
30°-40°	480.5	18.6
40°-50°	724.7	28.1
50°-60°	626.9	24.3
60°-70°	142.1	5.5
70°-80°	41.9	1.6
80°-90°	5.4	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°	2582.9	100.0
0°-180°	2582.9	100.0

Coefficient of Utilization



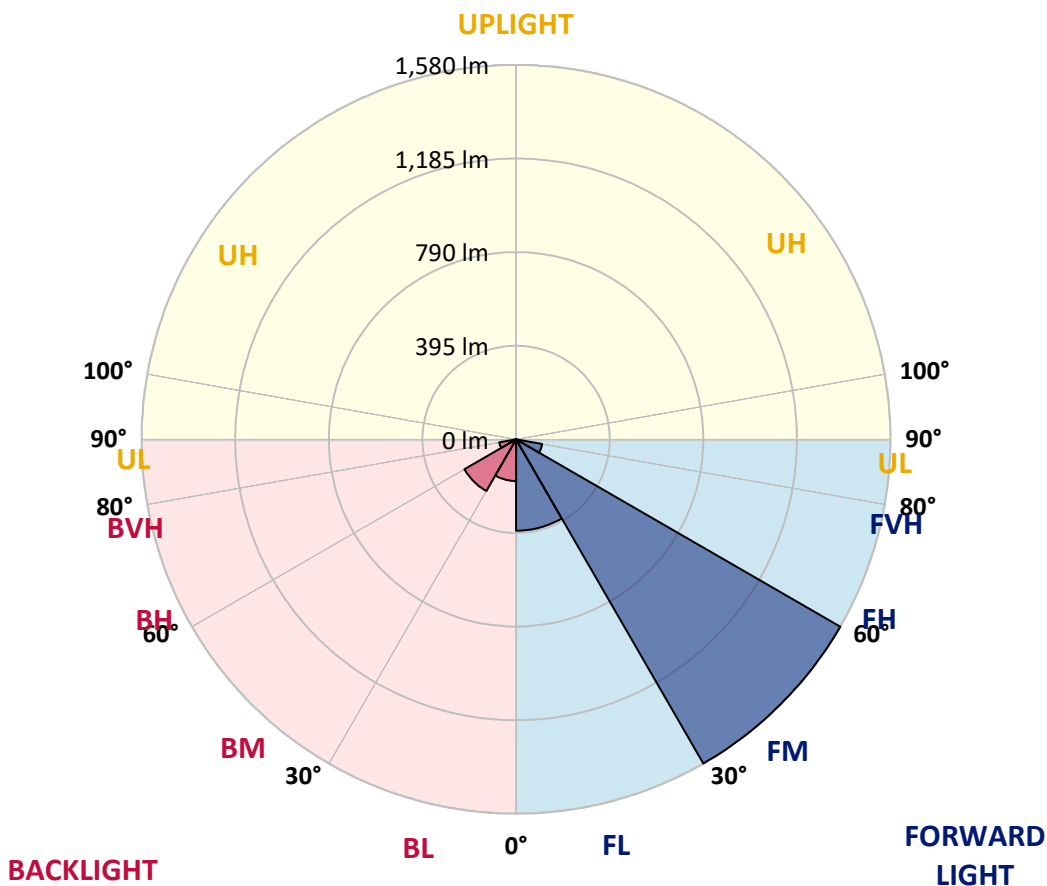
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.5	14.9			
FM (30°-60°)	1580.3	61.2			
FH (60°-80°)	111.8	4.3			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	175.9	6.8	B1/500		
BM (30°-60°)	251.8	9.7	B1/1000		
BH (60°-80°)	72.2	2.8	B0/110		G0/110
BVH (80°-90°)	3.4	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°	51°	55°	65°	75°	85°
0°	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1
2.5°	857.0	861.9	854.4	851.5	846.8	838.7	829.3	826.6	806.4	793.1	778.2
5°	943.2	945.8	939.7	933.6	921.9	907.4	889.3	885.4	848.7	818.2	786.6
7.5°	962.3	961.3	966.6	970.1	968.7	963.0	946.8	939.3	895.4	847.2	800.5
10°	886.4	880.7	900.3	923.6	951.5	983.8	981.9	981.3	943.2	886.2	818.2
12.5°	785.8	782.9	798.9	828.0	880.9	952.3	979.1	999.9	986.2	923.4	838.0
15°	728.2	727.2	738.0	759.1	801.1	891.3	948.5	989.7	1023.2	963.2	859.1
17.5°	717.8	718.4	722.1	734.2	764.4	838.7	904.8	962.3	1051.9	1006.8	885.4
20°	748.2	752.3	746.0	747.8	764.2	819.7	875.0	934.8	1070.3	1050.7	913.8
22.5°	815.8	814.4	800.5	792.3	792.5	831.3	871.7	921.9	1082.4	1093.4	939.5
25°	892.3	890.7	874.2	856.0	844.6	862.9	895.2	935.6	1093.2	1132.4	960.1
27.5°	982.8	977.7	959.3	936.0	910.7	918.7	940.5	972.5	1109.9	1170.7	973.8
30°	1070.3	1076.2	1049.9	1022.3	995.6	990.7	1003.4	1032.4	1144.0	1215.6	990.1
32.5°	1186.4	1184.4	1155.2	1119.3	1081.1	1077.5	1087.5	1114.0	1205.2	1277.7	1015.0
35°	1327.1	1327.5	1286.0	1237.5	1183.2	1173.4	1190.1	1215.8	1296.5	1361.8	1054.4
37.5°	1473.2	1472.6	1436.5	1381.4	1307.3	1293.4	1312.6	1331.8	1410.6	1476.3	1115.6
40°	1575.7	1579.8	1562.8	1533.8	1463.6	1429.7	1446.7	1459.9	1534.6	1611.0	1196.2
42.5°	1633.8	1640.0	1643.6	1661.0	1624.0	1587.9	1581.8	1588.7	1645.5	1736.1	1272.0
45°	1646.3	1654.5	1681.2	1745.5	1759.8	1749.6	1729.6	1712.8	1728.1	1824.9	1321.6
47.5°	1591.4	1605.7	1662.8	1775.3	1858.8	1890.8	1868.6	1843.0	1775.9	1847.7	1316.5
50°	1373.8	1390.6	1519.3	1714.5	1872.8	1989.6	1991.6	1953.9	1770.2	1781.8	1252.4
52.5°	1087.7	1099.1	1172.8	1453.4	1734.7	1985.5	2067.2	2026.7	1742.6	1699.4	1172.2
55°	650.1	668.4	737.2	958.9	1351.4	1759.8	1933.7	1953.3	1729.2	1630.2	1117.5
57.5°	219.4	228.4	294.1	423.5	796.4	1288.5	1494.0	1573.6	1569.8	1524.4	1010.7
60°	104.5	106.5	119.8	160.6	318.8	673.3	884.4	976.2	1059.9	1068.3	628.8
62.5°	79.6	80.8	87.6	96.3	128.2	283.7	405.3	475.6	508.0	436.0	229.0
65°	66.5	67.6	72.7	78.2	87.2	122.9	155.5	179.4	161.6	125.9	109.2
67.5°	55.5	56.3	60.2	66.1	72.3	82.3	86.3	88.8	93.1	104.5	100.4
70°	43.5	44.3	48.4	53.5	59.4	61.8	65.7	68.2	76.7	91.4	91.0
72.5°	33.5	34.5	36.7	40.0	44.9	47.4	51.6	54.5	59.4	71.2	76.1
75°	24.5	25.1	27.1	28.2	28.8	28.2	32.5	35.7	42.2	46.7	48.0
77.5°	10.0	11.2	10.8	10.8	12.9	15.5	17.8	19.8	24.3	26.9	27.1
80°	4.1	4.5	5.3	5.9	7.1	9.2	10.6	11.4	13.5	15.1	16.3
82.5°	2.4	2.7	3.1	3.3	4.1	5.3	6.1	6.7	8.4	10.0	10.6
85°	1.2	1.2	1.4	1.6	2.0	2.4	2.9	3.3	4.3	5.3	5.9
87.5°	0.2	0.2	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	2.0
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°	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1
2.5°	769.5	758.4	745.6	735.4	723.5	714.8	702.3	694.6	687.2	681.1	676.6
5°	770.3	751.7	725.0	701.3	676.8	653.5	629.7	610.3	592.9	578.4	577.2
7.5°	775.0	748.2	706.4	665.0	617.2	571.1	525.0	487.4	458.8	443.9	440.9
10°	782.9	747.8	687.4	621.3	539.9	465.6	410.9	382.3	365.8	359.8	357.8
12.5°	791.3	746.8	663.1	559.6	446.6	381.5	351.5	348.0	351.1	351.5	351.3
15°	801.5	746.2	632.5	487.4	378.4	342.5	344.5	351.9	359.0	360.6	360.6
17.5°	814.0	744.8	590.9	416.8	335.7	334.9	345.7	355.5	362.3	363.5	363.5
20°	827.0	741.1	539.6	359.2	318.4	330.2	341.9	349.4	354.1	355.8	356.0
22.5°	836.0	731.3	480.7	316.6	307.6	321.3	329.6	337.4	337.4	333.3	332.1
25°	837.8	710.3	416.8	287.4	294.7	307.4	316.0	311.5	303.1	299.8	299.6
27.5°	831.1	679.7	353.7	266.6	279.2	291.9	290.4	283.9	280.2	277.0	278.2
30°	822.9	642.9	299.0	249.4	261.3	273.7	268.8	266.6	263.9	260.2	261.0
32.5°	817.4	601.9	257.0	236.1	249.2	251.3	254.7	254.5	252.1	245.1	244.7
35°	819.1	560.5	228.8	225.3	239.2	238.4	244.9	243.7	226.8	217.2	216.6
37.5°	832.1	520.7	212.3	216.8	223.3	228.4	234.1	219.4	213.5	207.4	207.8
40°	857.0	483.7	203.3	212.1	213.7	221.2	208.0	207.8	205.1	199.6	199.4
42.5°	885.2	452.5	197.2	209.8	207.6	209.0	194.9	196.6	196.3	192.9	191.9
45°	902.3	423.7	192.3	201.4	202.1	187.8	183.5	185.3	186.3	184.5	184.3
47.5°	884.6	390.7	187.2	188.6	193.9	178.2	172.9	173.1	174.9	175.1	174.3
50°	834.8	353.7	181.0	177.6	174.1	168.2	163.3	162.3	164.1	165.9	166.5
52.5°	770.5	318.4	170.8	165.5	157.4	157.4	155.1	151.9	154.3	156.8	157.6
55°	723.3	292.3	156.3	150.4	141.4	144.5	144.1	141.2	144.5	146.3	147.0
57.5°	626.8	234.9	137.6	135.7	128.2	131.9	132.7	129.0	127.4	127.8	128.4
60°	372.1	151.6	124.1	123.9	117.2	121.4	123.9	120.2	115.3	115.9	116.7
62.5°	167.0	115.9	107.2	106.3	106.1	111.6	114.3	110.8	103.9	104.5	105.3
65°	105.1	100.2	93.1	93.1	96.3	101.0	103.1	100.2	92.3	91.2	92.1
67.5°	97.6	93.3	85.9	84.5	86.1	90.0	90.2	84.7	80.0	79.2	79.2
70°	87.6	84.3	77.2	74.3	73.7	73.5	72.9	71.4	68.4	67.6	68.0
72.5°	72.5	70.2	65.7	62.7	61.0	60.8	58.4	57.1	54.5	54.1	53.9
75°	48.0	48.6	48.6	48.2	46.7	46.1	43.5	42.2	39.2	38.0	37.8
77.5°	28.4	29.0	29.8	30.0	29.8	29.8	27.3	25.9	22.9	21.2	20.8
80°	17.3	17.8	18.2	18.8	18.0	17.3	15.1	13.7	12.2	11.2	11.0
82.5°	11.2	11.6	11.8	12.2	11.8	11.0	9.2	8.4	7.3	6.5	6.3
85°	6.3	6.5	6.9	6.9	6.3	5.7	4.7	4.1	3.5	3.1	3.1
87.5°	2.2	2.2	2.2	2.4	2.0	1.8	1.2	0.8	0.6	0.6	0.6
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)