

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: P628950

Luminaire Tested: GWS-SA1A-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628950
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-SA1A-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2602.8 lumens
Efficiency: N/A
Efficacy: 132.1 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

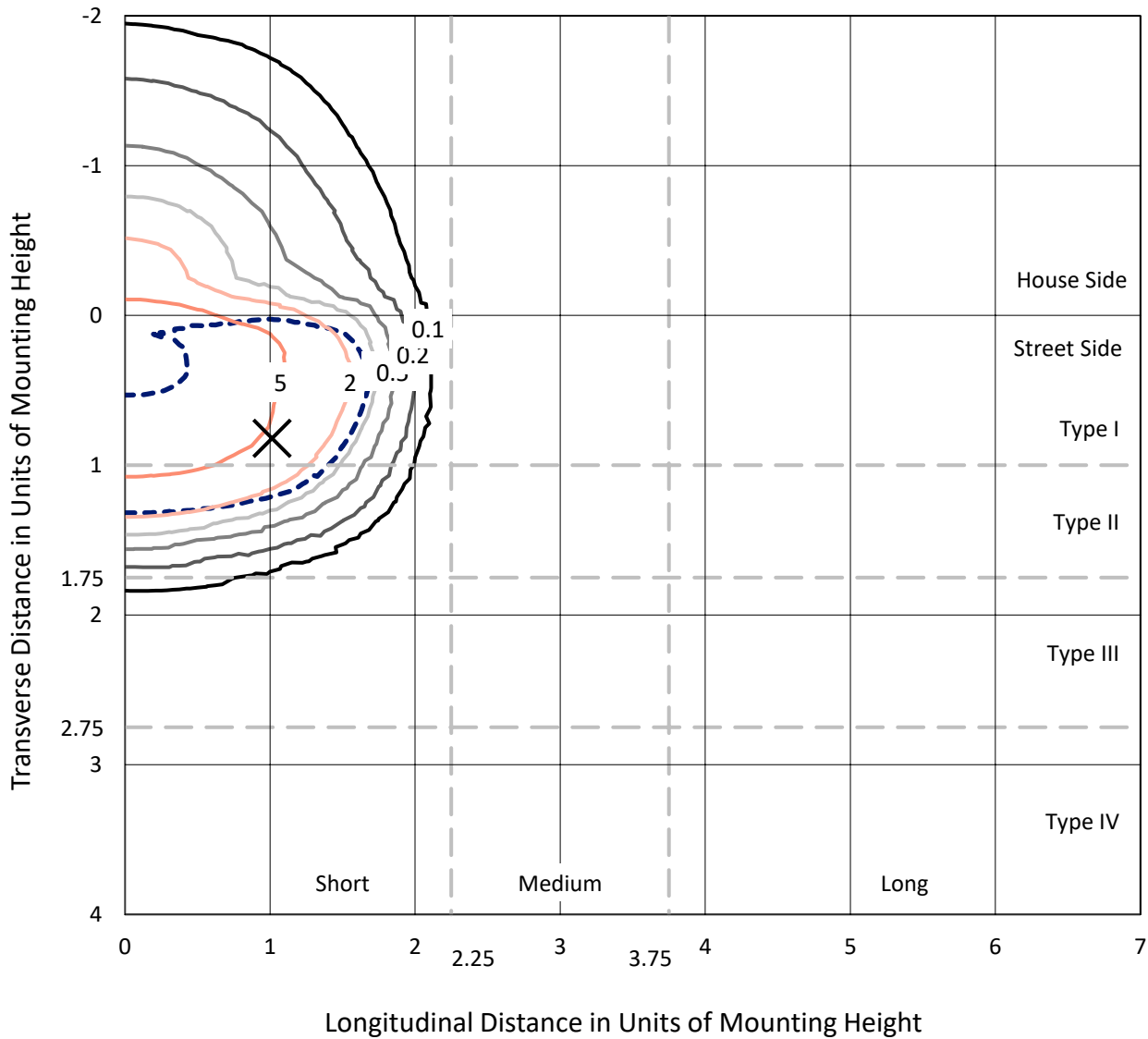
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

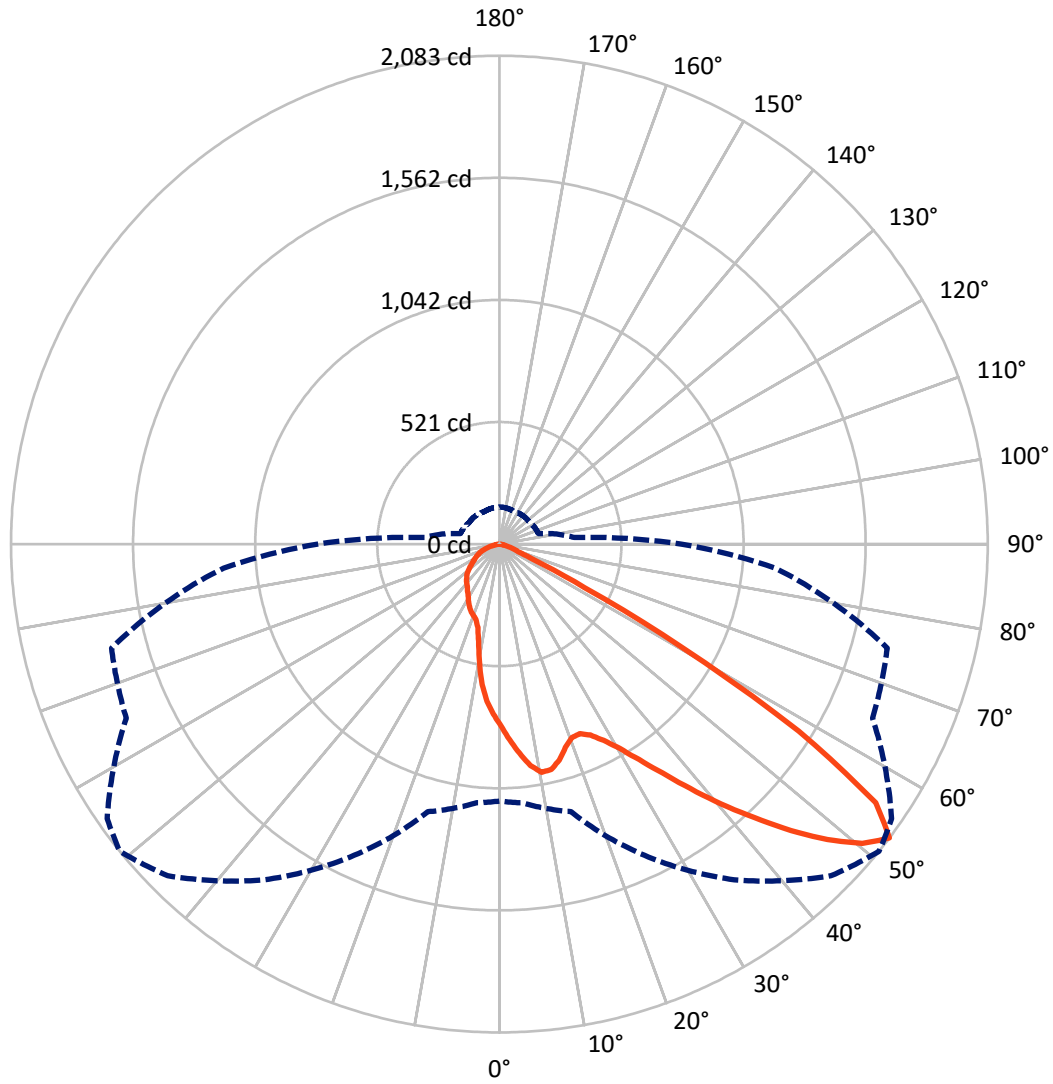
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 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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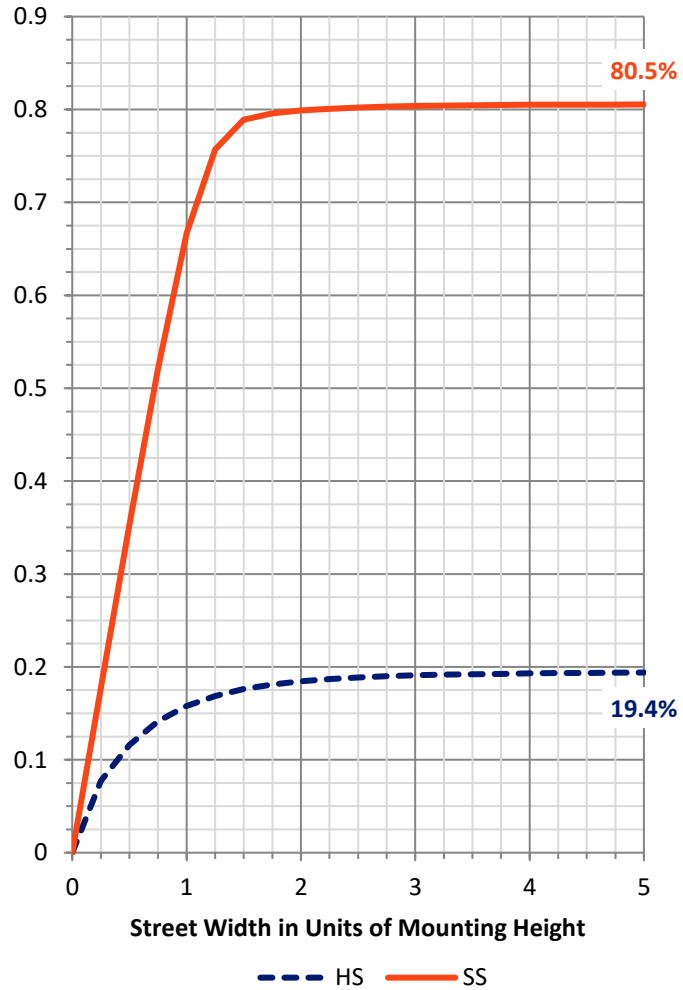
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	507.1	0.0	507.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2095.7	0.0	2095.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	2602.8	0.0	2602.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	2.8
10°-20°	187.9	7.2
20°-30°	305.5	11.7
30°-40°	484.2	18.6
40°-50°	730.3	28.1
50°-60°	631.7	24.3
60°-70°	143.2	5.5
70°-80°	42.2	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°	2602.8	100.0
0°-180°	2602.8	100.0

Coefficient of Utilization



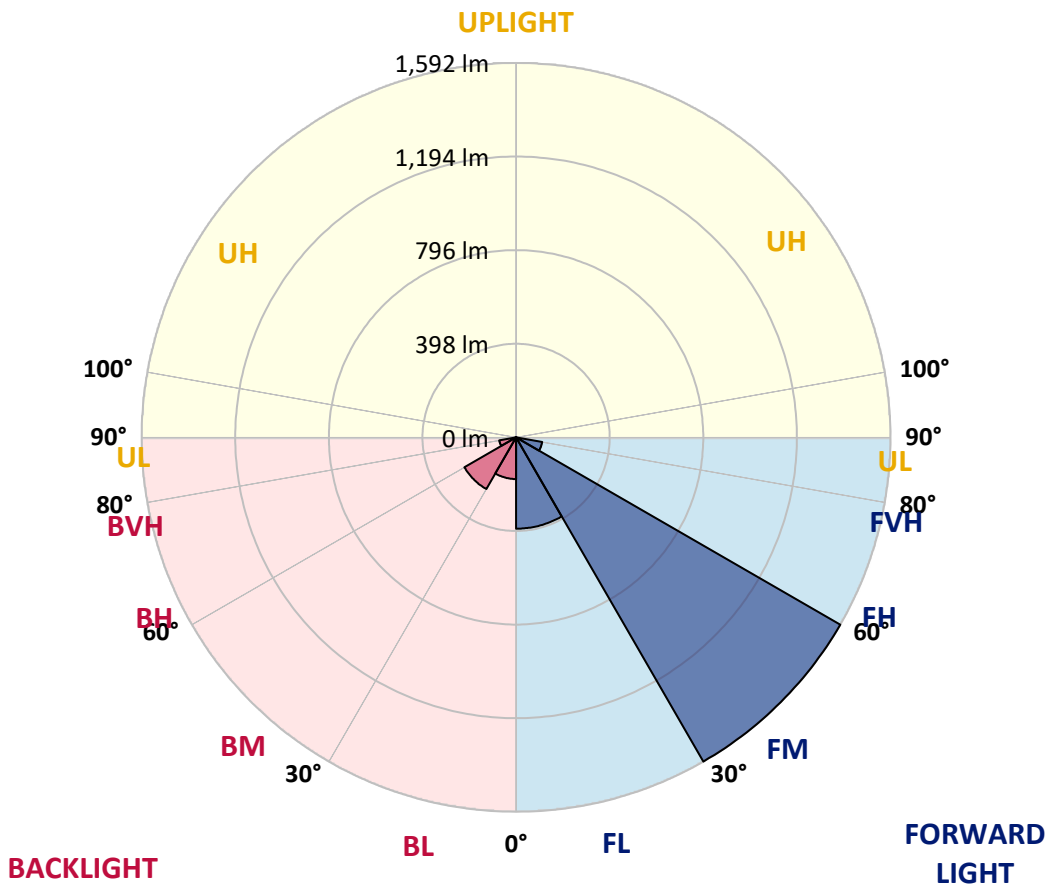
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	388.5	14.9			
FM (30°-60°)	1592.4	61.2			
FH (60°-80°)	112.7	4.3			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	177.3	6.8	B1/500		
BM (30°-60°)	253.7	9.7	B1/1000		
BH (60°-80°)	72.7	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°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	863.6	868.6	861.0	858.1	853.3	845.1	835.7	833.0	812.6	799.3	784.2
5°	950.4	953.1	946.9	940.8	929.0	914.4	896.1	892.2	855.2	824.6	792.7
7.5°	969.8	968.7	974.1	977.6	976.1	970.4	954.1	946.5	902.3	853.8	806.7
10°	893.2	887.5	907.2	930.7	958.9	991.4	989.5	988.9	950.4	893.0	824.6
12.5°	791.8	789.0	805.0	834.4	887.7	959.7	986.6	1007.6	993.8	930.5	844.5
15°	733.8	732.8	743.7	764.9	807.3	898.2	955.8	997.3	1031.0	970.6	865.7
17.5°	723.4	724.0	727.7	739.8	770.3	845.1	911.8	969.8	1060.0	1014.6	892.2
20°	754.0	758.1	751.7	753.6	770.0	826.0	881.7	942.0	1078.6	1058.8	920.8
22.5°	822.1	820.6	806.7	798.4	798.6	837.7	878.4	929.0	1090.7	1101.8	946.7
25°	899.2	897.6	880.9	862.6	851.1	869.6	902.1	942.8	1101.6	1141.1	967.5
27.5°	990.3	985.2	966.7	943.2	917.7	925.7	947.8	980.0	1118.5	1179.8	981.3
30°	1078.6	1084.5	1058.0	1030.2	1003.3	998.3	1011.1	1040.3	1152.8	1225.0	997.7
32.5°	1195.6	1193.5	1164.1	1127.9	1089.5	1085.8	1095.8	1122.6	1214.5	1287.5	1022.8
35°	1337.3	1337.7	1296.0	1247.0	1192.3	1182.4	1199.3	1225.2	1306.4	1372.3	1062.5
37.5°	1484.6	1483.9	1447.5	1392.0	1317.3	1303.4	1322.7	1342.0	1421.4	1487.6	1124.2
40°	1587.8	1591.9	1574.9	1545.6	1474.9	1440.8	1457.8	1471.2	1546.5	1623.4	1205.5
42.5°	1646.4	1652.6	1656.3	1673.8	1636.6	1600.2	1594.0	1601.0	1658.2	1749.5	1281.8
45°	1659.0	1667.2	1694.1	1758.9	1773.3	1763.0	1742.9	1726.0	1741.5	1838.9	1331.7
47.5°	1603.6	1618.0	1675.6	1789.0	1873.1	1905.4	1883.0	1857.2	1789.6	1862.0	1326.6
50°	1384.4	1401.3	1531.0	1727.7	1887.3	2004.9	2007.0	1968.9	1783.8	1795.5	1262.0
52.5°	1096.0	1107.6	1181.8	1464.6	1748.0	2000.8	2083.1	2042.4	1756.1	1712.5	1181.2
55°	655.1	673.6	742.9	966.3	1361.8	1773.3	1948.6	1968.3	1742.5	1642.7	1126.1
57.5°	221.1	230.2	296.4	426.8	802.5	1298.4	1505.5	1585.8	1581.8	1536.2	1018.5
60°	105.3	107.4	120.7	161.9	321.3	678.5	891.2	983.7	1068.1	1076.5	633.7
62.5°	80.2	81.4	88.2	97.1	129.2	285.9	408.5	479.2	511.9	439.3	230.8
65°	67.1	68.1	73.2	78.8	87.8	123.8	156.7	180.8	162.9	126.9	110.0
67.5°	55.9	56.8	60.7	66.6	72.8	82.9	87.0	89.5	93.8	105.3	101.2
70°	43.8	44.6	48.7	53.9	59.9	62.3	66.2	68.7	77.3	92.1	91.7
72.5°	33.7	34.8	37.0	40.3	45.2	47.7	52.0	54.9	59.9	71.8	76.7
75°	24.7	25.3	27.4	28.4	29.0	28.4	32.7	36.0	42.6	47.1	48.3
77.5°	10.1	11.3	10.9	10.9	13.0	15.6	17.9	20.0	24.5	27.1	27.4
80°	4.1	4.5	5.3	6.0	7.2	9.3	10.7	11.5	13.6	15.2	16.5
82.5°	2.5	2.7	3.1	3.3	4.1	5.3	6.2	6.8	8.4	10.1	10.7
85°	1.2	1.2	1.4	1.6	2.1	2.5	2.9	3.3	4.3	5.3	6.0
87.5°	0.2	0.2	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	2.1
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°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	775.4	764.3	751.3	741.0	729.1	720.3	707.7	699.9	692.5	686.3	681.8
5°	776.2	757.5	730.6	706.7	682.0	658.6	634.5	615.0	597.5	582.9	581.6
7.5°	780.9	754.0	711.8	670.1	622.0	575.5	529.0	491.2	462.4	447.3	444.3
10°	789.0	753.6	692.7	626.1	544.0	469.1	414.0	385.2	368.6	362.6	360.5
12.5°	797.4	752.6	668.2	564.0	450.0	384.4	354.2	350.7	353.8	354.2	354.0
15°	807.7	751.9	637.4	491.2	381.3	345.1	347.2	354.6	361.8	363.4	363.4
17.5°	820.2	750.5	595.4	420.0	338.3	337.5	348.4	358.3	365.1	366.3	366.3
20°	833.4	746.8	543.8	362.0	320.9	332.8	344.5	352.1	356.8	358.5	358.7
22.5°	842.4	736.9	484.4	319.0	310.0	323.7	332.2	340.0	340.0	335.9	334.6
25°	844.3	715.7	420.0	289.6	297.0	309.7	318.4	313.9	305.4	302.1	301.9
27.5°	837.5	684.9	356.4	268.6	281.4	294.1	292.7	286.1	282.4	279.1	280.3
30°	829.3	647.9	301.3	251.3	263.3	275.8	270.9	268.6	265.9	262.2	263.1
32.5°	823.7	606.5	258.9	238.0	251.1	253.2	256.7	256.5	254.0	247.0	246.6
35°	825.4	564.8	230.6	227.1	241.1	240.2	246.8	245.6	228.5	218.8	218.2
37.5°	838.5	524.7	213.9	218.4	225.0	230.2	235.9	221.1	215.1	209.0	209.4
40°	863.6	487.4	204.9	213.7	215.3	223.0	209.6	209.4	206.7	201.2	200.9
42.5°	892.0	456.0	198.7	211.4	209.2	210.6	196.4	198.1	197.9	194.4	193.3
45°	909.3	427.0	193.7	203.0	203.6	189.2	184.9	186.8	187.8	185.9	185.7
47.5°	891.4	393.7	188.6	190.0	195.4	179.6	174.2	174.4	176.3	176.5	175.6
50°	841.2	356.4	182.4	178.9	175.4	169.5	164.5	163.5	165.4	167.2	167.8
52.5°	776.4	320.9	172.1	166.8	158.6	158.6	156.3	153.0	155.5	158.0	158.8
55°	728.9	294.5	157.5	151.6	142.5	145.6	145.2	142.3	145.6	147.5	148.1
57.5°	631.6	236.7	138.6	136.8	129.2	132.9	133.7	130.0	128.3	128.8	129.4
60°	374.9	152.8	125.1	124.8	118.1	122.4	124.8	121.1	116.2	116.8	117.6
62.5°	168.2	116.8	108.0	107.2	107.0	112.5	115.2	111.7	104.7	105.3	106.1
65°	105.9	101.0	93.8	93.8	97.1	101.8	103.9	101.0	93.0	91.9	92.8
67.5°	98.3	94.0	86.6	85.1	86.8	90.7	90.9	85.4	80.6	79.8	79.8
70°	88.2	84.9	77.7	74.9	74.2	74.0	73.4	72.0	68.9	68.1	68.5
72.5°	73.0	70.8	66.2	63.1	61.5	61.3	58.8	57.6	54.9	54.5	54.3
75°	48.3	49.0	49.0	48.5	47.1	46.5	43.8	42.6	39.5	38.3	38.0
77.5°	28.6	29.2	30.0	30.2	30.0	30.0	27.6	26.1	23.0	21.4	21.0
80°	17.5	17.9	18.3	18.9	18.1	17.5	15.2	13.8	12.3	11.3	11.1
82.5°	11.3	11.7	11.9	12.3	11.9	11.1	9.3	8.4	7.4	6.6	6.4
85°	6.4	6.6	7.0	7.0	6.4	5.8	4.7	4.1	3.5	3.1	3.1
87.5°	2.3	2.3	2.3	2.5	2.1	1.9	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)