

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: P628730

Luminaire Tested: GWS-SA1A-730-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628730
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-730-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, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2349.3 lumens
Efficiency: N/A
Efficacy: 119.3 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

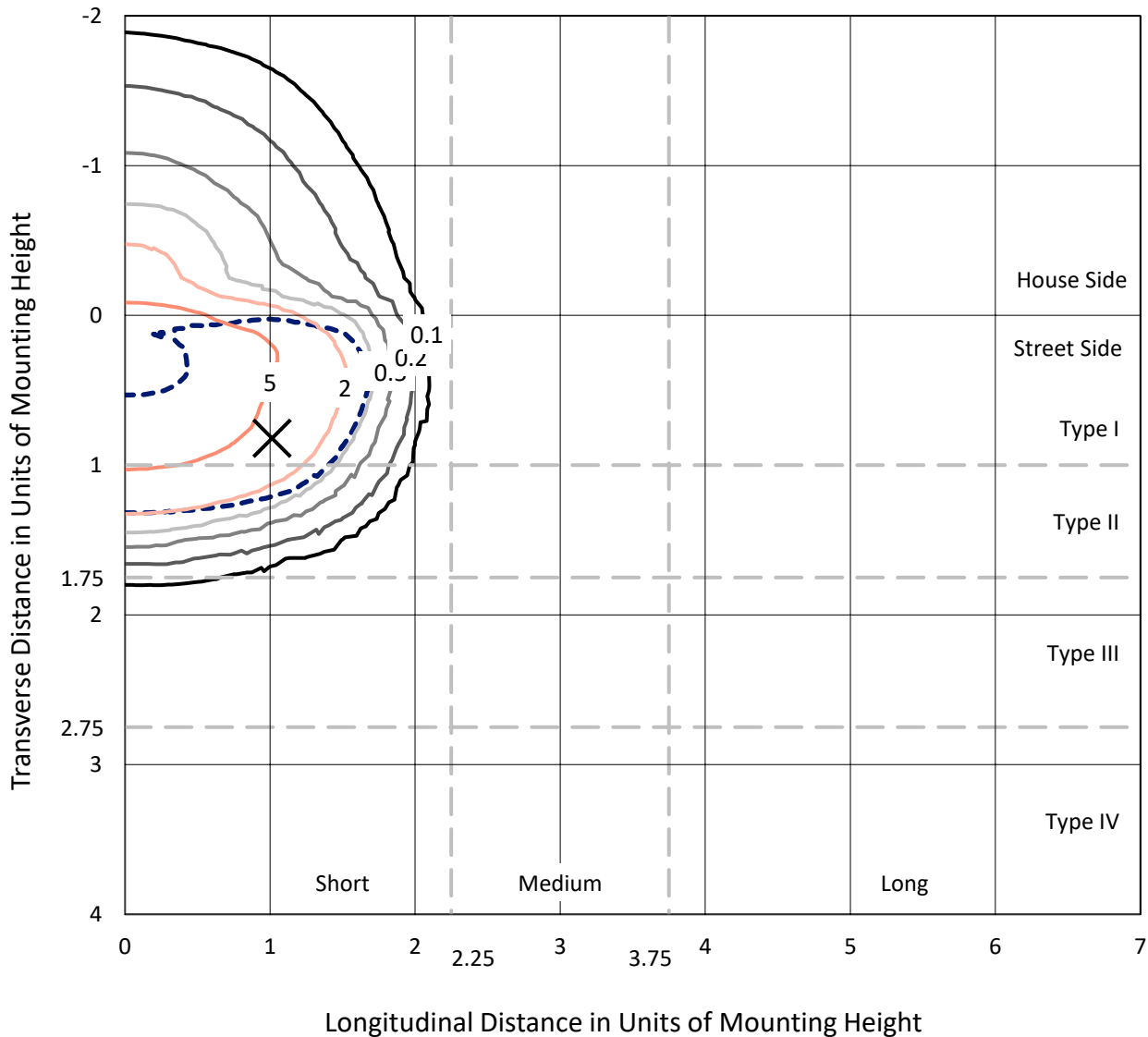
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

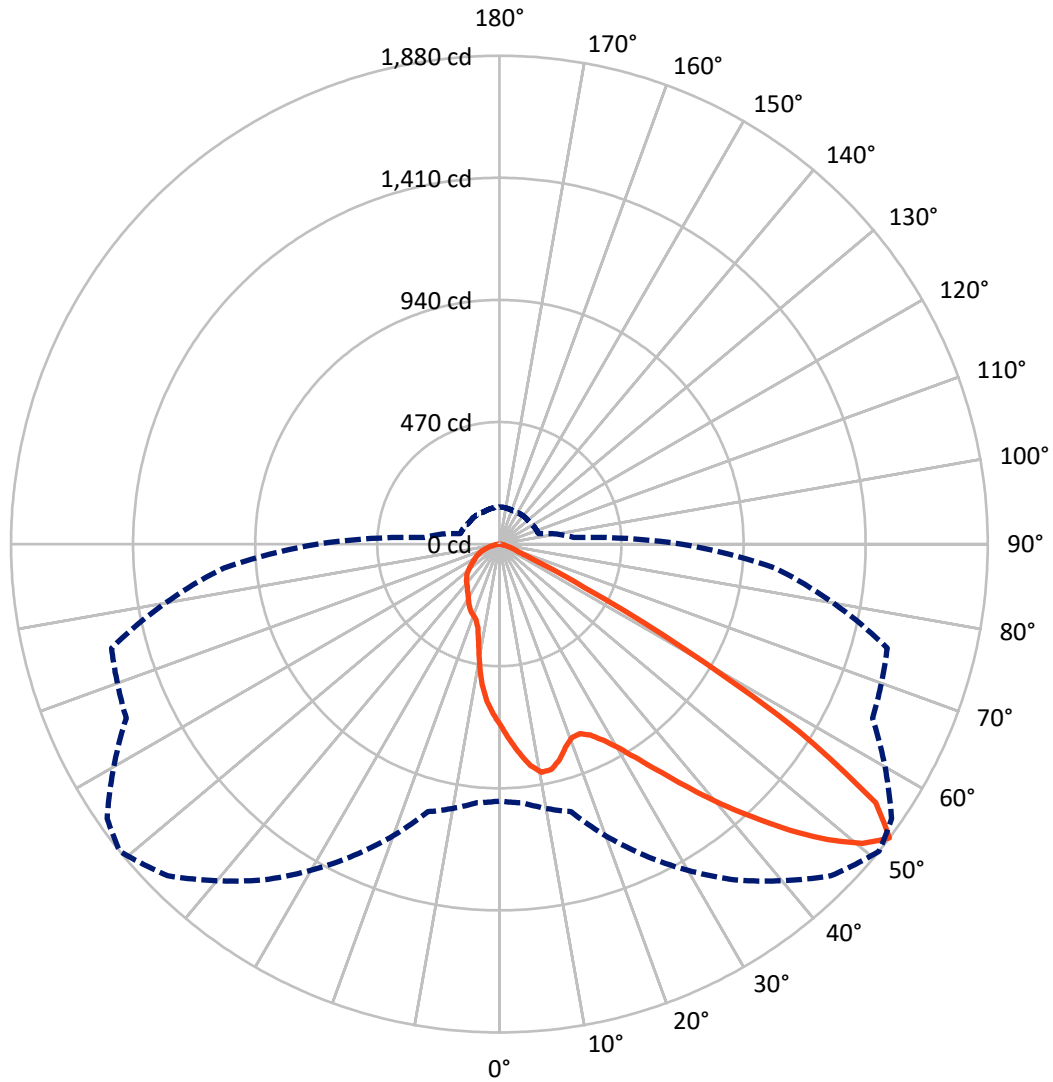
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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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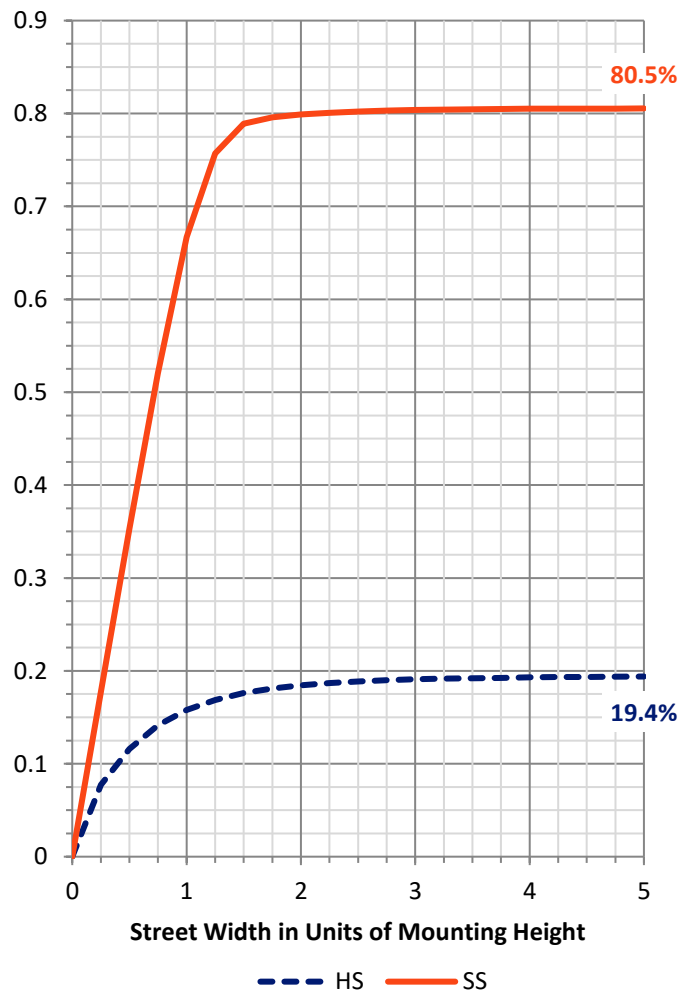
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	457.8	0.0	457.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	1891.6	0.0	1891.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	2349.3	0.0	2349.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	2.8
10°-20°	169.6	7.2
20°-30°	275.8	11.7
30°-40°	437.0	18.6
40°-50°	659.1	28.1
50°-60°	570.2	24.3
60°-70°	129.3	5.5
70°-80°	38.1	1.6
80°-90°	4.9	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°	2349.3	100.0
0°-180°	2349.3	100.0

Coefficient of Utilization



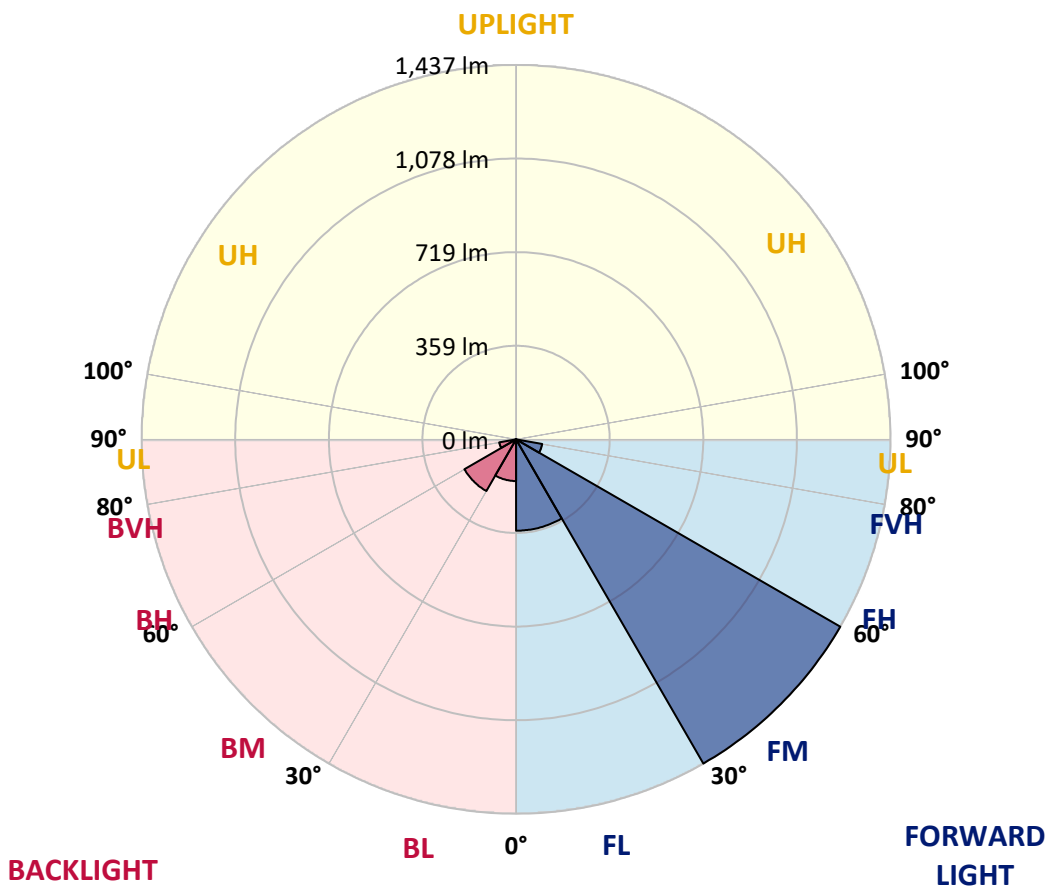
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	350.6	14.9			
FM (30°-60°)	1437.3	61.2			
FH (60°-80°)	101.7	4.3			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	160.0	6.8	B1/500		
BM (30°-60°)	229.0	9.7	B1/1000		
BH (60°-80°)	65.7	2.8	B0/110		G0/110
BVH (80°-90°)	3.1	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°	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5
2.5°	779.5	784.0	777.1	774.5	770.2	762.8	754.3	751.9	733.5	721.4	707.9
5°	857.9	860.3	854.7	849.1	838.6	825.4	808.8	805.3	771.9	744.2	715.5
7.5°	875.3	874.4	879.2	882.4	881.1	875.9	861.2	854.3	814.4	770.6	728.1
10°	806.2	801.1	818.9	840.0	865.5	894.8	893.1	892.6	857.9	806.1	744.2
12.5°	714.7	712.1	726.6	753.2	801.2	866.2	890.5	909.5	897.0	839.9	762.3
15°	662.4	661.4	671.3	690.4	728.6	810.7	862.7	900.2	930.6	876.1	781.4
17.5°	652.9	653.5	656.8	667.8	695.2	762.8	823.0	875.3	956.8	915.8	805.3
20°	680.6	684.3	678.5	680.2	695.0	745.5	795.9	850.2	973.5	955.7	831.1
22.5°	742.0	740.7	728.1	720.7	720.9	756.1	792.9	838.6	984.5	994.5	854.5
25°	811.6	810.1	795.1	778.6	768.2	784.9	814.2	851.0	994.3	1029.9	873.3
27.5°	893.9	889.2	872.5	851.4	828.3	835.6	855.4	884.6	1009.5	1064.8	885.7
30°	973.5	978.9	954.9	929.9	905.6	901.1	912.6	939.0	1040.5	1105.7	900.6
32.5°	1079.1	1077.3	1050.7	1018.1	983.4	980.0	989.1	1013.2	1096.2	1162.1	923.2
35°	1207.1	1207.4	1169.7	1125.6	1076.2	1067.3	1082.5	1105.9	1179.2	1238.6	959.0
37.5°	1340.0	1339.4	1306.6	1256.4	1189.0	1176.4	1193.9	1211.3	1283.0	1342.8	1014.7
40°	1433.2	1436.9	1421.5	1395.1	1331.2	1300.4	1315.8	1327.9	1395.9	1465.3	1088.1
42.5°	1486.1	1491.6	1495.0	1510.8	1477.2	1444.3	1438.7	1445.0	1496.7	1579.1	1156.9
45°	1497.4	1504.8	1529.1	1587.6	1600.6	1591.3	1573.1	1557.9	1571.8	1659.8	1202.0
47.5°	1447.5	1460.5	1512.4	1614.7	1690.7	1719.8	1699.6	1676.4	1615.3	1680.6	1197.4
50°	1249.6	1264.8	1381.9	1559.4	1703.5	1809.7	1811.5	1777.2	1610.1	1620.7	1139.1
52.5°	989.3	999.7	1066.7	1322.0	1577.8	1805.9	1880.2	1843.4	1585.0	1545.7	1066.1
55°	591.3	608.0	670.5	872.2	1229.1	1600.6	1758.8	1776.6	1572.8	1482.7	1016.4
57.5°	199.6	207.7	267.5	385.2	724.4	1172.0	1358.9	1431.3	1427.8	1386.6	919.3
60°	95.0	96.9	109.0	146.1	290.0	612.4	804.4	887.9	964.0	971.7	572.0
62.5°	72.4	73.5	79.6	87.6	116.6	258.0	368.7	432.5	462.1	396.5	208.3
65°	60.5	61.4	66.1	71.1	79.3	111.8	141.5	163.2	147.0	114.5	99.3
67.5°	50.5	51.2	54.8	60.1	65.7	74.8	78.5	80.8	84.7	95.0	91.3
70°	39.5	40.3	44.0	48.6	54.0	56.2	59.8	62.0	69.8	83.2	82.8
72.5°	30.4	31.4	33.4	36.4	40.8	43.1	47.0	49.6	54.0	64.8	69.2
75°	22.3	22.8	24.7	25.6	26.2	25.6	29.5	32.5	38.4	42.5	43.6
77.5°	9.1	10.2	9.8	9.8	11.7	14.1	16.2	18.0	22.1	24.5	24.7
80°	3.7	4.1	4.8	5.4	6.5	8.4	9.7	10.4	12.3	13.7	14.9
82.5°	2.2	2.4	2.8	3.0	3.7	4.8	5.6	6.1	7.6	9.1	9.7
85°	1.1	1.1	1.3	1.5	1.9	2.2	2.6	3.0	3.9	4.8	5.4
87.5°	0.2	0.2	0.2	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.9
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°	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5
2.5°	699.9	689.9	678.2	668.9	658.1	650.1	638.8	631.7	625.1	619.5	615.4
5°	700.6	683.7	659.4	637.9	615.6	594.4	572.7	555.1	539.3	526.1	525.0
7.5°	704.9	680.6	642.5	604.8	561.4	519.4	477.5	443.3	417.3	403.8	401.0
10°	712.1	680.2	625.2	565.1	491.0	423.5	373.7	347.7	332.7	327.3	325.4
12.5°	719.7	679.3	603.2	509.0	406.2	347.0	319.7	316.5	319.3	319.7	319.5
15°	729.0	678.7	575.3	443.3	344.2	311.5	313.4	320.0	326.5	328.0	328.0
17.5°	740.3	677.4	537.4	379.1	305.4	304.6	314.5	323.4	329.5	330.6	330.6
20°	752.2	674.1	490.8	326.7	289.6	300.4	311.0	317.8	322.1	323.6	323.8
22.5°	760.4	665.2	437.2	287.9	279.8	292.2	299.8	306.9	306.9	303.2	302.0
25°	762.1	646.0	379.1	261.4	268.1	279.6	287.4	283.3	275.7	272.7	272.5
27.5°	755.9	618.2	321.7	242.5	254.0	265.5	264.2	258.2	254.9	251.9	253.0
30°	748.5	584.8	272.0	226.9	237.6	248.9	244.5	242.5	240.0	236.7	237.4
32.5°	743.5	547.5	233.7	214.8	226.7	228.5	231.7	231.5	229.3	223.0	222.6
35°	745.0	509.8	208.1	205.0	217.6	216.8	222.8	221.7	206.2	197.5	197.0
37.5°	756.9	473.6	193.1	197.2	203.1	207.7	212.9	199.6	194.2	188.6	189.0
40°	779.5	440.0	184.9	192.9	194.4	201.2	189.2	189.0	186.6	181.6	181.4
42.5°	805.1	411.6	179.3	190.8	188.8	190.1	177.3	178.8	178.6	175.4	174.5
45°	820.7	385.4	174.9	183.2	183.8	170.8	166.9	168.6	169.5	167.8	167.6
47.5°	804.6	355.3	170.2	171.5	176.4	162.1	157.2	157.4	159.1	159.3	158.5
50°	759.3	321.7	164.7	161.5	158.4	153.0	148.5	147.6	149.3	150.9	151.5
52.5°	700.8	289.6	155.4	150.6	143.1	143.1	141.1	138.1	140.3	142.6	143.3
55°	657.9	265.8	142.2	136.8	128.7	131.4	131.1	128.5	131.4	133.1	133.7
57.5°	570.1	213.7	125.1	123.5	116.6	119.9	120.7	117.3	115.8	116.2	116.8
60°	338.4	137.9	112.9	112.7	106.6	110.5	112.7	109.3	104.9	105.4	106.2
62.5°	151.9	105.4	97.5	96.7	96.5	101.5	104.0	100.8	94.5	95.0	95.8
65°	95.6	91.2	84.7	84.7	87.6	91.9	93.7	91.2	83.9	83.0	83.7
67.5°	88.7	84.8	78.2	76.9	78.3	81.9	82.1	77.0	72.8	72.0	72.0
70°	79.6	76.7	70.2	67.6	67.0	66.8	66.3	65.0	62.2	61.4	61.8
72.5°	65.9	63.9	59.8	57.0	55.5	55.3	53.1	52.0	49.6	49.2	49.0
75°	43.6	44.2	44.2	43.8	42.5	42.0	39.5	38.4	35.6	34.5	34.3
77.5°	25.8	26.4	27.1	27.3	27.1	27.1	24.9	23.6	20.8	19.3	18.9
80°	15.8	16.2	16.5	17.1	16.3	15.8	13.7	12.4	11.1	10.2	10.0
82.5°	10.2	10.6	10.8	11.1	10.8	10.0	8.4	7.6	6.7	5.9	5.8
85°	5.8	5.9	6.3	6.3	5.8	5.2	4.3	3.7	3.2	2.8	2.8
87.5°	2.0	2.0	2.0	2.2	1.9	1.7	1.1	0.7	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)