

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: P628927

Luminaire Tested: GWS-SA1A-750-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-750-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2966.2 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

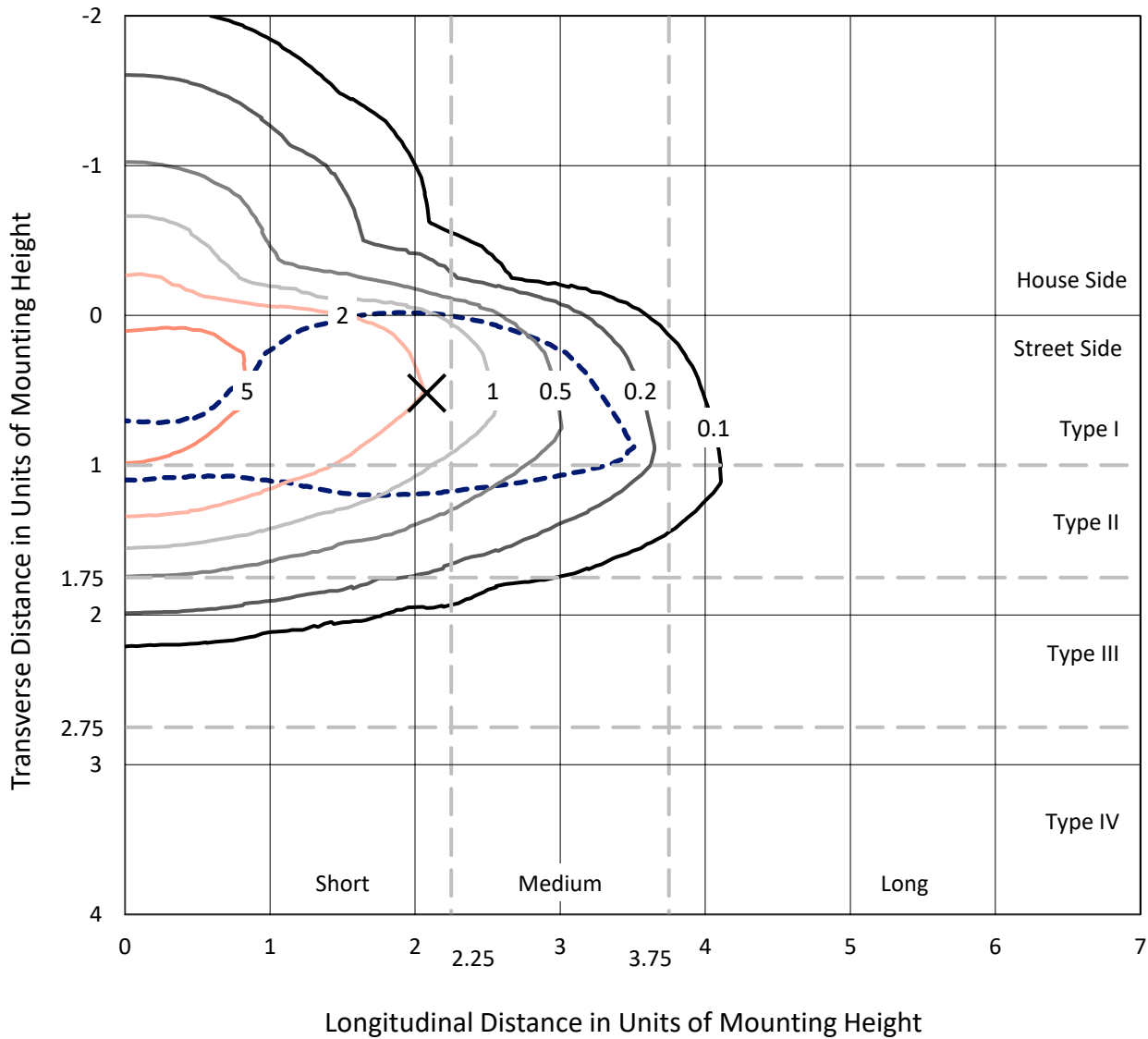


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Iso-Footcandle Lines of Horizontal Illumination

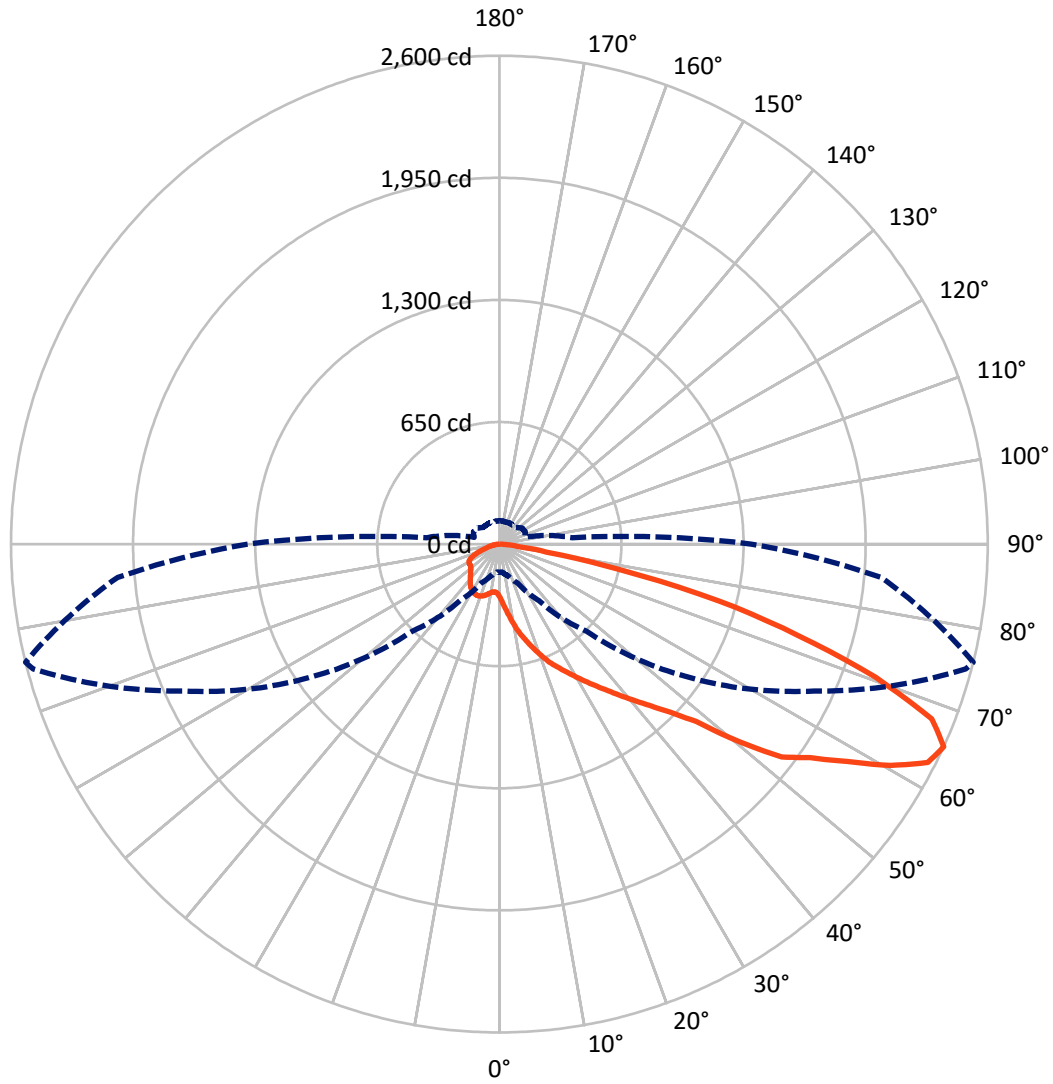
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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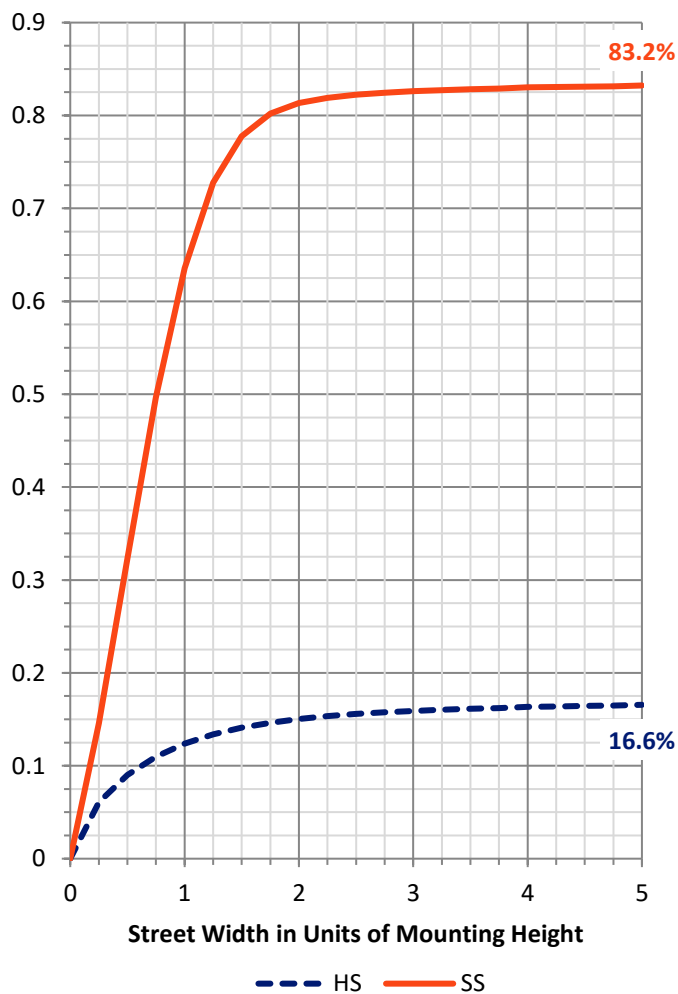
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	495.8	0.0	495.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	2470.4	0.0	2470.4
	% Fixture	83.3	0.0	83.3
Total	Lumens	2966.2	0.0	2966.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	1.1
10°-20°	127.1	4.3
20°-30°	247.7	8.4
30°-40°	414.3	14.0
40°-50°	593.2	20.0
50°-60°	702.2	23.7
60°-70°	583.9	19.7
70°-80°	239.0	8.1
80°-90°	25.4	0.9
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°	2966.2	100.0
0°-180°	2966.2	100.0

Coefficient of Utilization



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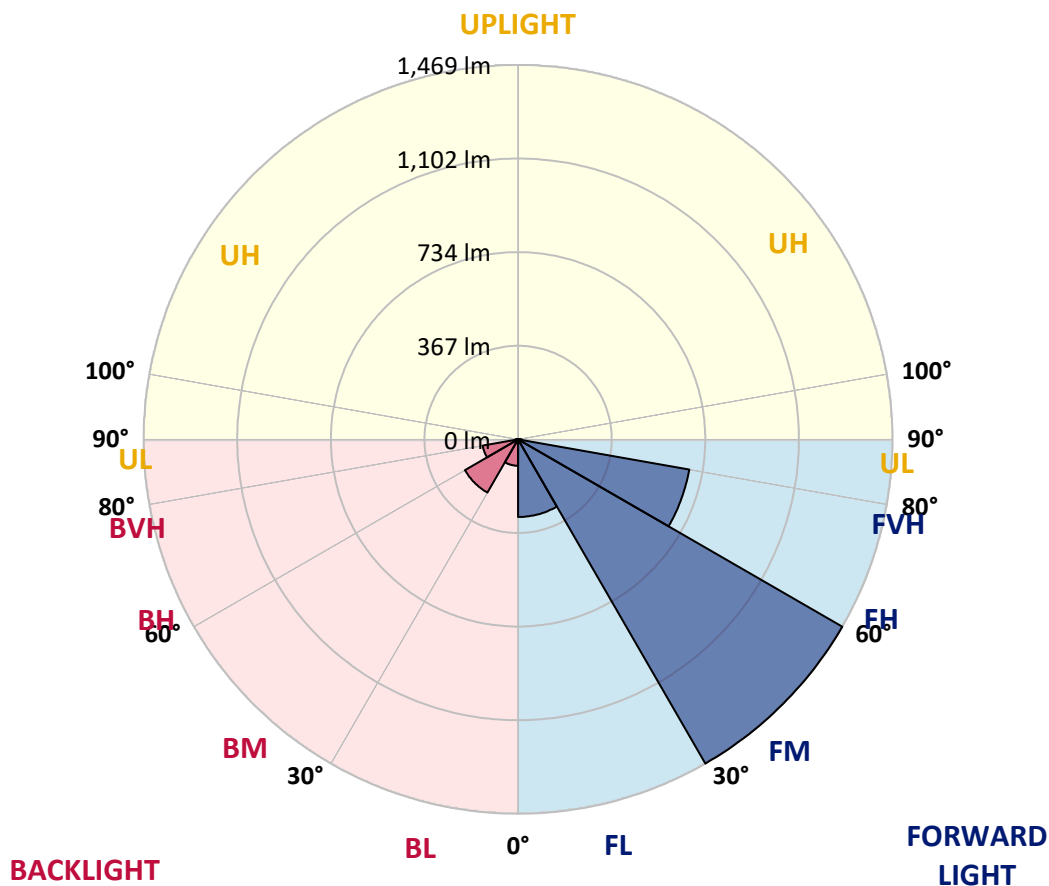
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.5	10.3			
FM (30°-60°)	1468.8	49.5			
FH (60°-80°)	682.0	23.0			G1/1800
FVH (80°-90°)	15.2	0.5			G1/100
BL (0°-30°)	103.7	3.5	B0/110		
BM (30°-60°)	240.9	8.1	B1/1000		
BH (60°-80°)	140.9	4.7	B1/500		G1/500
BVH (80°-90°)	10.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9
2.5°	393.7	395.2	390.4	388.7	377.4	362.2	349.5	330.3	312.6	309.9	294.0
5°	500.1	493.8	488.4	484.8	469.2	451.9	425.0	388.9	351.2	346.6	312.4
7.5°	563.2	562.2	555.5	553.4	541.3	524.0	496.3	451.5	396.6	389.1	337.2
10°	613.9	613.3	609.9	611.8	600.8	583.9	557.0	510.7	446.5	439.0	364.9
12.5°	658.1	659.2	658.5	665.4	659.8	646.6	618.7	567.8	496.3	488.2	398.7
15°	690.4	691.3	694.4	709.4	712.5	709.8	681.5	623.9	545.5	533.8	433.5
17.5°	699.6	701.3	708.8	733.0	749.9	761.1	740.1	681.1	593.9	581.2	469.0
20°	711.9	713.8	721.3	746.5	771.3	797.0	793.2	739.0	642.7	632.3	504.8
22.5°	768.8	767.4	764.0	776.1	793.9	825.8	835.2	794.7	693.1	683.1	544.5
25°	878.5	875.8	854.6	843.5	837.7	857.1	873.7	845.4	742.4	727.3	581.4
27.5°	999.5	998.0	970.9	944.6	908.8	900.4	910.2	889.6	790.1	774.9	613.5
30°	1114.0	1109.6	1081.2	1048.3	1000.3	964.4	950.1	933.0	842.5	826.6	651.0
32.5°	1216.3	1210.7	1177.4	1140.9	1090.6	1048.3	1005.3	979.0	901.7	883.3	689.4
35°	1300.4	1294.8	1260.6	1221.8	1166.5	1135.2	1076.4	1029.1	961.9	943.4	734.6
37.5°	1365.4	1360.2	1324.6	1286.4	1238.2	1213.4	1162.3	1085.4	1031.4	1012.0	782.6
40°	1401.9	1398.2	1369.6	1339.4	1298.9	1277.4	1254.5	1156.5	1109.2	1089.8	839.1
42.5°	1413.0	1410.5	1390.5	1374.8	1347.5	1331.2	1344.4	1240.1	1192.2	1175.3	902.7
45°	1385.3	1385.3	1379.4	1387.3	1388.6	1388.4	1434.5	1334.6	1294.1	1275.6	992.4
47.5°	1314.4	1318.9	1327.5	1366.5	1407.6	1442.0	1539.8	1460.5	1425.3	1410.1	1119.4
50°	1184.7	1197.2	1226.4	1302.5	1389.8	1477.4	1639.5	1646.8	1680.3	1653.4	1306.2
52.5°	994.7	992.8	1067.2	1175.7	1308.9	1478.9	1694.3	1811.1	1901.4	1882.8	1445.1
55°	790.5	787.4	856.8	1006.4	1184.9	1423.0	1727.2	1886.4	2024.0	2007.3	1570.0
57.5°	605.4	601.4	663.1	798.0	1009.7	1304.3	1721.0	1976.0	2192.7	2184.1	1739.8
60°	416.6	411.8	469.6	587.6	802.4	1122.9	1651.8	2022.1	2390.2	2393.1	1921.4
62.5°	250.2	247.5	289.4	381.0	577.2	898.1	1489.7	1994.2	2547.4	2560.5	2038.2
65°	151.0	149.1	173.7	227.3	366.2	655.4	1239.9	1851.3	2570.1	2600.4	2040.9
67.5°	109.9	110.1	117.2	138.5	213.5	423.3	930.5	1595.2	2451.7	2483.0	1912.2
70°	95.5	95.9	99.7	104.5	129.1	242.3	604.9	1259.3	2101.6	2125.7	1603.8
72.5°	84.9	84.9	87.4	89.9	100.9	147.6	324.1	880.2	1658.6	1665.1	1224.1
75°	74.7	74.0	75.3	76.5	87.6	103.2	157.6	613.3	1225.1	1210.1	791.2
77.5°	59.4	58.8	59.0	60.3	70.3	73.8	79.9	383.1	690.4	651.7	349.5
80°	42.3	41.9	44.2	47.3	51.9	45.3	50.0	185.4	273.8	254.8	135.5
82.5°	25.2	26.1	29.6	32.1	35.9	28.4	32.3	61.9	97.0	94.5	55.1
85°	3.5	3.8	10.6	12.3	15.4	11.1	17.1	27.9	38.8	41.5	19.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.0	11.1	11.3	4.8
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°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9
2.5°	285.9	276.1	262.1	250.4	240.6	232.7	226.0	221.0	219.6	217.5	217.5
5°	296.3	278.6	253.6	235.8	225.6	219.6	215.4	213.3	212.3	211.0	210.4
7.5°	310.7	285.9	252.1	234.2	226.3	222.5	219.8	218.5	217.7	216.5	216.5
10°	330.5	296.7	256.7	240.0	233.8	230.0	226.9	224.8	222.9	221.0	220.6
12.5°	352.0	310.9	265.0	247.9	241.3	236.7	232.3	229.2	226.9	224.6	224.0
15°	375.8	325.5	274.0	255.7	247.3	241.1	235.8	231.0	227.9	224.6	224.2
17.5°	399.1	340.3	281.5	260.9	250.2	242.5	235.0	228.8	224.8	221.0	220.0
20°	427.1	355.1	286.7	262.3	249.6	239.4	230.4	222.5	218.1	213.7	213.1
22.5°	452.7	368.9	289.2	260.2	244.8	232.7	222.3	213.7	208.9	204.6	203.7
25°	477.5	381.0	288.2	255.2	237.5	223.5	212.7	204.1	199.6	195.0	193.7
27.5°	501.5	389.1	284.0	247.5	228.3	213.3	202.9	195.2	191.2	187.3	185.6
30°	525.1	396.6	277.6	237.5	216.7	202.7	194.1	188.7	184.8	180.6	179.3
32.5°	548.8	402.0	267.8	225.8	204.8	193.3	188.1	184.1	180.0	175.8	174.5
35°	572.8	404.3	255.9	212.5	194.8	187.3	185.4	180.8	175.2	170.2	168.5
37.5°	601.4	406.4	241.1	199.4	186.0	184.3	183.9	177.0	170.4	163.5	161.6
40°	635.8	409.1	225.8	187.5	178.9	183.3	181.6	172.2	158.9	152.2	150.1
42.5°	677.9	414.1	210.0	176.6	173.7	179.3	177.5	160.6	151.6	147.8	146.8
45°	739.9	432.5	194.1	168.1	169.7	173.7	170.8	153.7	150.1	147.6	146.4
47.5°	850.2	460.6	180.4	161.6	166.6	168.7	157.4	151.8	149.1	145.8	144.3
50°	964.9	472.9	169.3	157.6	163.1	164.1	150.1	149.3	147.4	143.9	142.4
52.5°	1042.4	471.3	162.7	156.2	160.2	156.2	146.8	146.6	145.3	141.2	139.5
55°	1130.0	474.2	159.7	156.6	158.9	142.8	142.6	143.3	142.6	138.0	137.2
57.5°	1248.3	483.2	158.3	158.1	158.1	136.4	138.7	139.5	138.3	136.2	135.5
60°	1361.9	483.8	155.6	159.7	157.4	132.4	134.1	134.9	133.5	133.0	132.8
62.5°	1404.6	453.8	149.5	158.5	154.9	128.0	129.3	129.7	128.2	129.3	129.1
65°	1341.0	389.9	139.5	152.4	147.2	124.1	123.2	124.3	121.8	124.5	124.7
67.5°	1190.7	309.9	124.3	141.0	136.4	119.7	118.0	118.0	113.9	118.0	117.8
70°	960.1	219.0	102.0	122.6	124.5	114.5	113.6	108.9	102.2	108.4	107.8
72.5°	727.8	157.2	80.3	97.0	107.2	107.2	107.4	99.3	91.5	94.5	92.0
75°	461.1	110.7	64.2	74.2	84.0	94.0	98.8	83.8	76.9	75.7	74.4
77.5°	207.7	72.8	50.0	56.9	59.6	74.2	90.3	72.2	62.8	60.1	59.2
80°	87.0	45.3	35.7	40.2	36.7	62.4	79.7	56.1	46.1	42.3	39.6
82.5°	38.2	26.9	22.7	21.7	22.9	46.3	59.4	37.3	28.8	39.0	39.4
85°	16.1	14.2	11.7	10.6	9.4	17.7	27.9	14.6	17.9	10.2	8.3
87.5°	3.8	4.2	3.1	2.1	1.3	0.2	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)