

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: P629445

Luminaire Tested: GWS-SA1B-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629445
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-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: 3280.4 lumens
Efficiency: N/A
Efficacy: 131.2 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

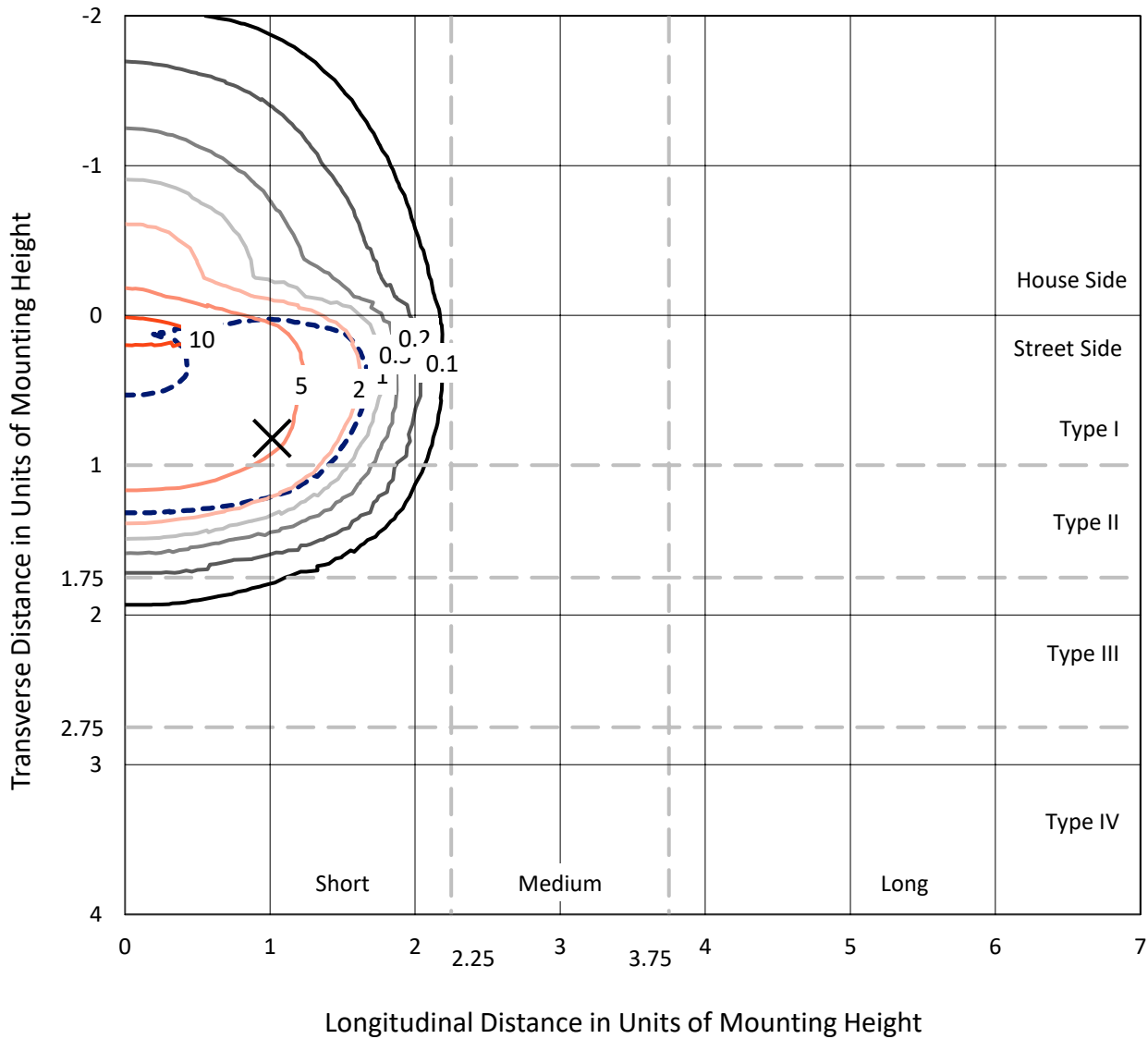
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

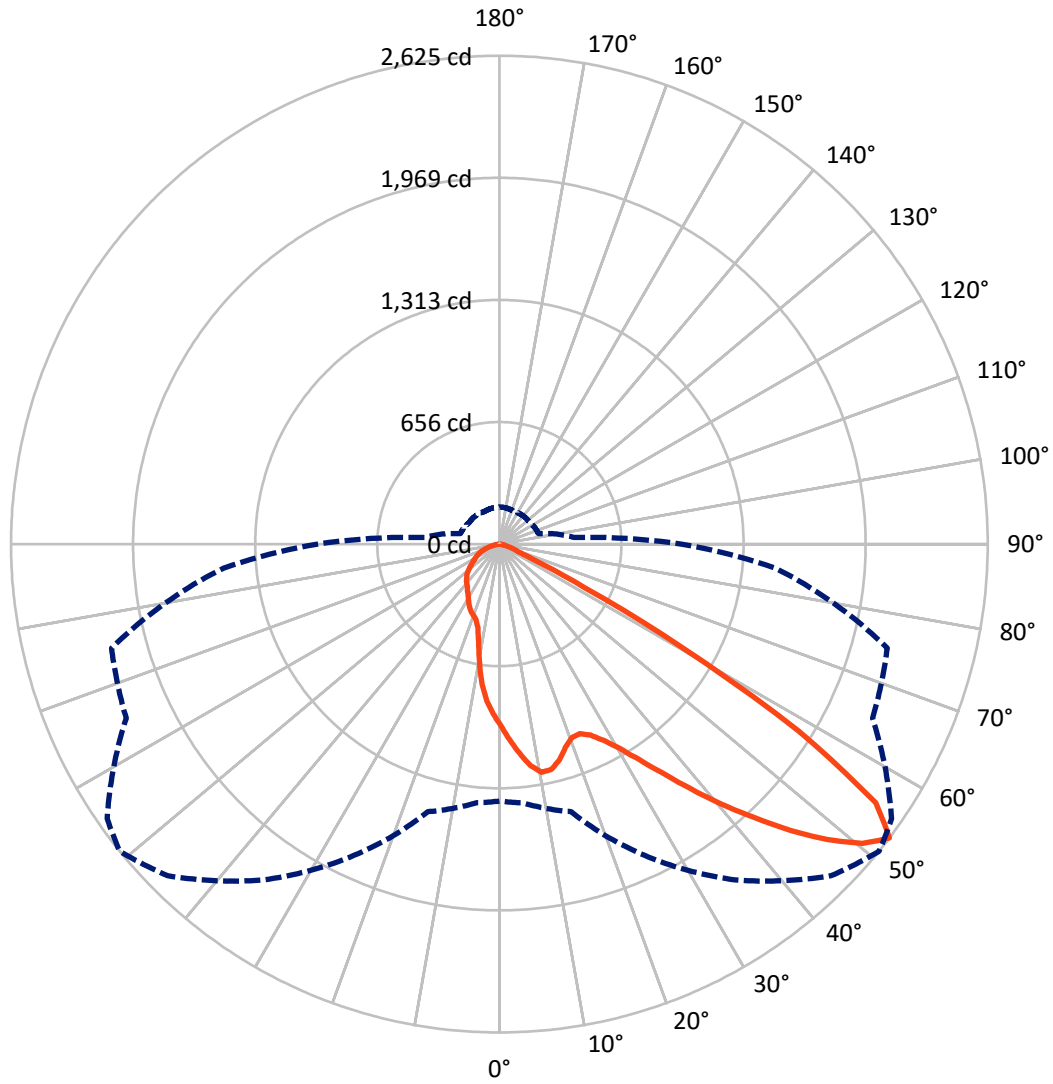
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 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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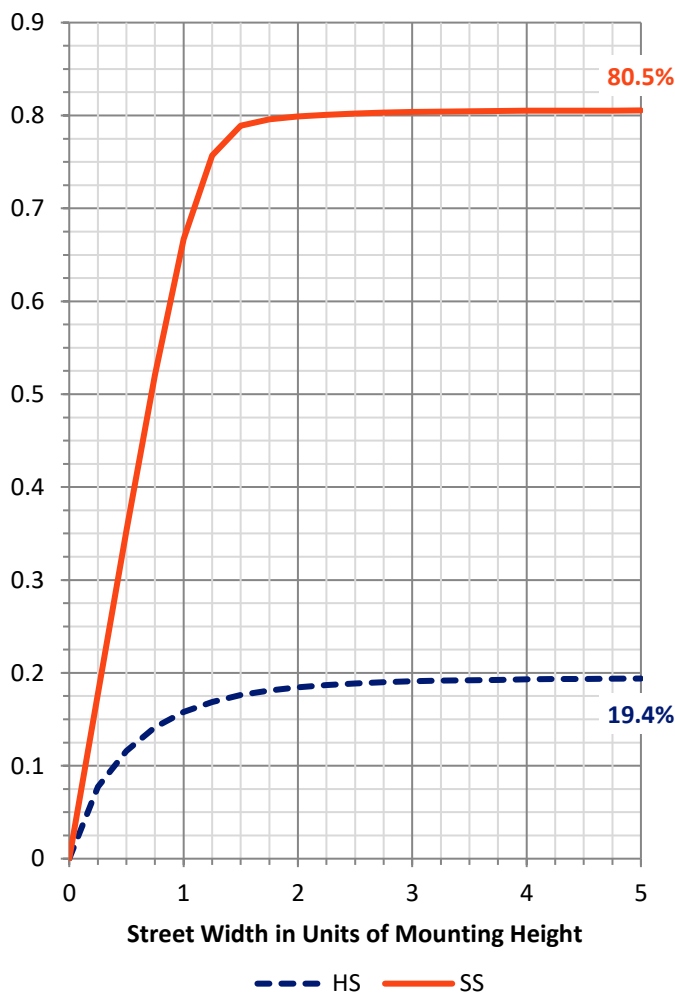
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	639.2	0.0	639.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2641.2	0.0	2641.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	3280.4	0.0	3280.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	2.8
10°-20°	236.8	7.2
20°-30°	385.1	11.7
30°-40°	610.2	18.6
40°-50°	920.4	28.1
50°-60°	796.2	24.3
60°-70°	180.5	5.5
70°-80°	53.2	1.6
80°-90°	6.9	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°	3280.4	100.0
0°-180°	3280.4	100.0

Coefficient of Utilization



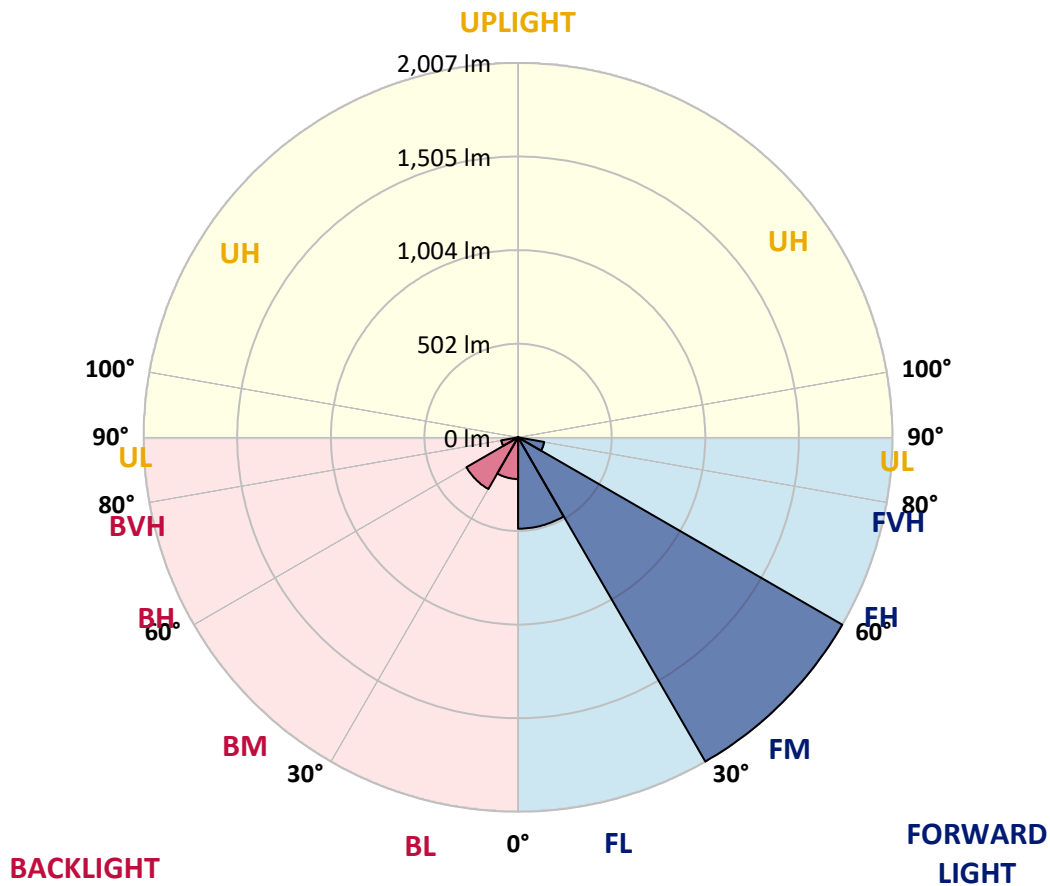
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	489.6	14.9			
FM (30°-60°)	2007.0	61.2			
FH (60°-80°)	142.1	4.3			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	223.4	6.8	B1/500		
BM (30°-60°)	319.8	9.7	B1/1000		
BH (60°-80°)	91.7	2.8	B0/110		G0/110
BVH (80°-90°)	4.3	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°	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7
2.5°	1088.5	1094.7	1085.1	1081.5	1075.5	1065.1	1053.2	1049.8	1024.2	1007.3	988.4
5°	1197.9	1201.2	1193.4	1185.7	1170.9	1152.5	1129.4	1124.5	1077.8	1039.2	999.0
7.5°	1222.2	1220.9	1227.7	1232.1	1230.3	1223.0	1202.5	1192.9	1137.2	1076.0	1016.7
10°	1125.8	1118.5	1143.4	1173.0	1208.5	1249.4	1247.1	1246.3	1197.9	1125.5	1039.2
12.5°	998.0	994.4	1014.6	1051.7	1118.8	1209.5	1243.5	1269.9	1252.5	1172.7	1064.4
15°	924.9	923.6	937.3	964.0	1017.4	1132.0	1204.6	1257.0	1299.5	1223.3	1091.1
17.5°	911.7	912.5	917.1	932.4	970.8	1065.1	1149.1	1222.2	1336.0	1278.7	1124.5
20°	950.3	955.5	947.4	949.8	970.5	1041.0	1111.3	1187.2	1359.3	1334.5	1160.5
22.5°	1036.1	1034.3	1016.7	1006.3	1006.5	1055.8	1107.1	1170.9	1374.6	1388.6	1193.2
25°	1133.3	1131.2	1110.2	1087.2	1072.6	1096.0	1136.9	1188.3	1388.4	1438.1	1219.4
27.5°	1248.1	1241.7	1218.3	1188.8	1156.6	1166.7	1194.5	1235.2	1409.6	1486.9	1236.7
30°	1359.3	1366.9	1333.4	1298.4	1264.5	1258.3	1274.3	1311.1	1452.9	1543.9	1257.5
32.5°	1506.8	1504.3	1467.2	1421.6	1373.1	1368.4	1381.1	1414.8	1530.7	1622.7	1289.1
35°	1685.4	1686.0	1633.3	1571.6	1502.7	1490.3	1511.5	1544.2	1646.6	1729.5	1339.1
37.5°	1871.0	1870.3	1824.4	1754.4	1660.3	1642.7	1667.0	1691.4	1791.5	1874.9	1416.9
40°	2001.2	2006.4	1984.8	1948.0	1858.9	1815.8	1837.3	1854.2	1949.1	2046.0	1519.3
42.5°	2075.1	2082.8	2087.5	2109.5	2062.6	2016.7	2009.0	2017.8	2089.8	2204.9	1615.5
45°	2090.9	2101.2	2135.2	2216.8	2235.0	2222.0	2196.6	2175.4	2194.8	2317.7	1678.4
47.5°	2021.1	2039.3	2111.9	2254.7	2360.7	2401.4	2373.2	2340.8	2255.5	2346.7	1672.0
50°	1744.8	1766.1	1929.6	2177.4	2378.6	2526.9	2529.5	2481.5	2248.2	2263.0	1590.6
52.5°	1381.4	1395.9	1489.5	1845.9	2203.1	2521.7	2625.4	2574.0	2213.2	2158.3	1488.7
55°	825.6	848.9	936.3	1217.8	1716.3	2235.0	2455.8	2480.7	2196.1	2070.4	1419.2
57.5°	278.7	290.1	373.5	537.9	1011.5	1636.5	1897.5	1998.6	1993.7	1936.1	1283.7
60°	132.7	135.3	152.2	204.0	404.9	855.2	1123.2	1239.8	1346.1	1356.8	798.7
62.5°	101.1	102.7	111.2	122.4	162.8	360.3	514.8	604.0	645.2	553.7	290.8
65°	84.5	85.8	92.3	99.3	110.7	156.1	197.5	227.9	205.3	159.9	138.7
67.5°	70.5	71.5	76.5	84.0	91.8	104.5	109.6	112.8	118.2	132.7	127.5
70°	55.2	56.3	61.4	67.9	75.4	78.5	83.5	86.6	97.5	116.1	115.6
72.5°	42.5	43.8	46.7	50.8	57.0	60.1	65.6	69.2	75.4	90.5	96.7
75°	31.1	31.9	34.5	35.8	36.5	35.8	41.2	45.4	53.7	59.4	60.9
77.5°	12.7	14.3	13.7	13.7	16.3	19.7	22.6	25.1	30.8	34.2	34.5
80°	5.2	5.7	6.7	7.5	9.1	11.7	13.5	14.5	17.1	19.2	20.7
82.5°	3.1	3.4	3.9	4.1	5.2	6.7	7.8	8.6	10.6	12.7	13.5
85°	1.6	1.6	1.8	2.1	2.6	3.1	3.6	4.1	5.4	6.7	7.5
87.5°	0.3	0.3	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.6
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°	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7
2.5°	977.3	963.3	946.9	934.0	918.9	907.8	892.0	882.1	872.8	865.0	859.3
5°	978.3	954.7	920.7	890.7	859.6	830.0	799.7	775.1	753.0	734.6	733.1
7.5°	984.3	950.3	897.2	844.5	783.9	725.3	666.7	619.0	582.7	563.8	559.9
10°	994.4	949.8	873.1	789.1	685.6	591.3	521.8	485.5	464.5	457.0	454.4
12.5°	1005.0	948.5	842.2	710.8	567.2	484.5	446.4	442.0	445.9	446.4	446.1
15°	1018.0	947.7	803.3	619.0	480.6	435.0	437.6	446.9	456.0	458.0	458.0
17.5°	1033.8	945.9	750.4	529.3	426.4	425.4	439.1	451.6	460.1	461.7	461.7
20°	1050.4	941.2	685.4	456.2	404.4	419.4	434.2	443.8	449.7	451.8	452.1
22.5°	1061.8	928.8	610.5	402.0	390.6	408.0	418.6	428.5	428.5	423.3	421.7
25°	1064.1	902.1	529.3	365.0	374.3	390.4	401.3	395.6	384.9	380.8	380.5
27.5°	1055.5	863.2	449.2	338.5	354.6	370.7	368.9	360.6	355.9	351.8	353.3
30°	1045.2	816.5	379.8	316.8	331.8	347.6	341.4	338.5	335.2	330.5	331.5
32.5°	1038.2	764.4	326.4	299.9	316.5	319.1	323.5	323.2	320.1	311.3	310.8
35°	1040.2	711.8	290.6	286.2	303.8	302.8	311.1	309.5	288.0	275.8	275.0
37.5°	1056.8	661.3	269.6	275.3	283.6	290.1	297.3	278.7	271.1	263.4	263.9
40°	1088.5	614.4	258.2	269.3	271.4	281.0	264.1	263.9	260.5	253.5	253.3
42.5°	1124.2	574.7	250.4	266.5	263.6	265.4	247.6	249.6	249.4	245.0	243.7
45°	1146.0	538.1	244.2	255.8	256.6	238.5	233.0	235.4	236.7	234.3	234.1
47.5°	1123.5	496.1	237.7	239.5	246.3	226.3	219.6	219.8	222.2	222.4	221.4
50°	1060.2	449.2	229.9	225.5	221.1	213.6	207.4	206.1	208.4	210.7	211.5
52.5°	978.6	404.4	217.0	210.2	199.9	199.9	197.0	192.9	196.0	199.1	200.1
55°	918.7	371.2	198.6	191.0	179.6	183.5	183.0	179.4	183.5	185.9	186.6
57.5°	796.1	298.4	174.7	172.4	162.8	167.5	168.5	163.8	161.8	162.3	163.0
60°	472.6	192.6	157.6	157.3	148.8	154.2	157.3	152.7	146.5	147.2	148.3
62.5°	212.0	147.2	136.1	135.1	134.8	141.8	145.2	140.8	131.9	132.7	133.8
65°	133.5	127.3	118.2	118.2	122.4	128.3	130.9	127.3	117.2	115.9	116.9
67.5°	123.9	118.5	109.1	107.3	109.4	114.3	114.6	107.6	101.6	100.6	100.6
70°	111.2	107.1	98.0	94.4	93.6	93.3	92.5	90.7	86.8	85.8	86.3
72.5°	92.0	89.2	83.5	79.6	77.5	77.2	74.1	72.6	69.2	68.7	68.4
75°	60.9	61.7	61.7	61.2	59.4	58.6	55.2	53.7	49.8	48.2	48.0
77.5°	36.0	36.8	37.8	38.1	37.8	37.8	34.7	32.9	29.0	27.0	26.4
80°	22.0	22.6	23.1	23.8	22.8	22.0	19.2	17.4	15.6	14.3	14.0
82.5°	14.3	14.8	15.0	15.6	15.0	14.0	11.7	10.6	9.3	8.3	8.0
85°	8.0	8.3	8.8	8.8	8.0	7.3	6.0	5.2	4.4	3.9	3.9
87.5°	2.9	2.9	2.9	3.1	2.6	2.3	1.6	1.0	0.8	0.8	0.8
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)