

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: P630048

Luminaire Tested: GWS-SA1C-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630048
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-SA1C-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: 3463.9 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

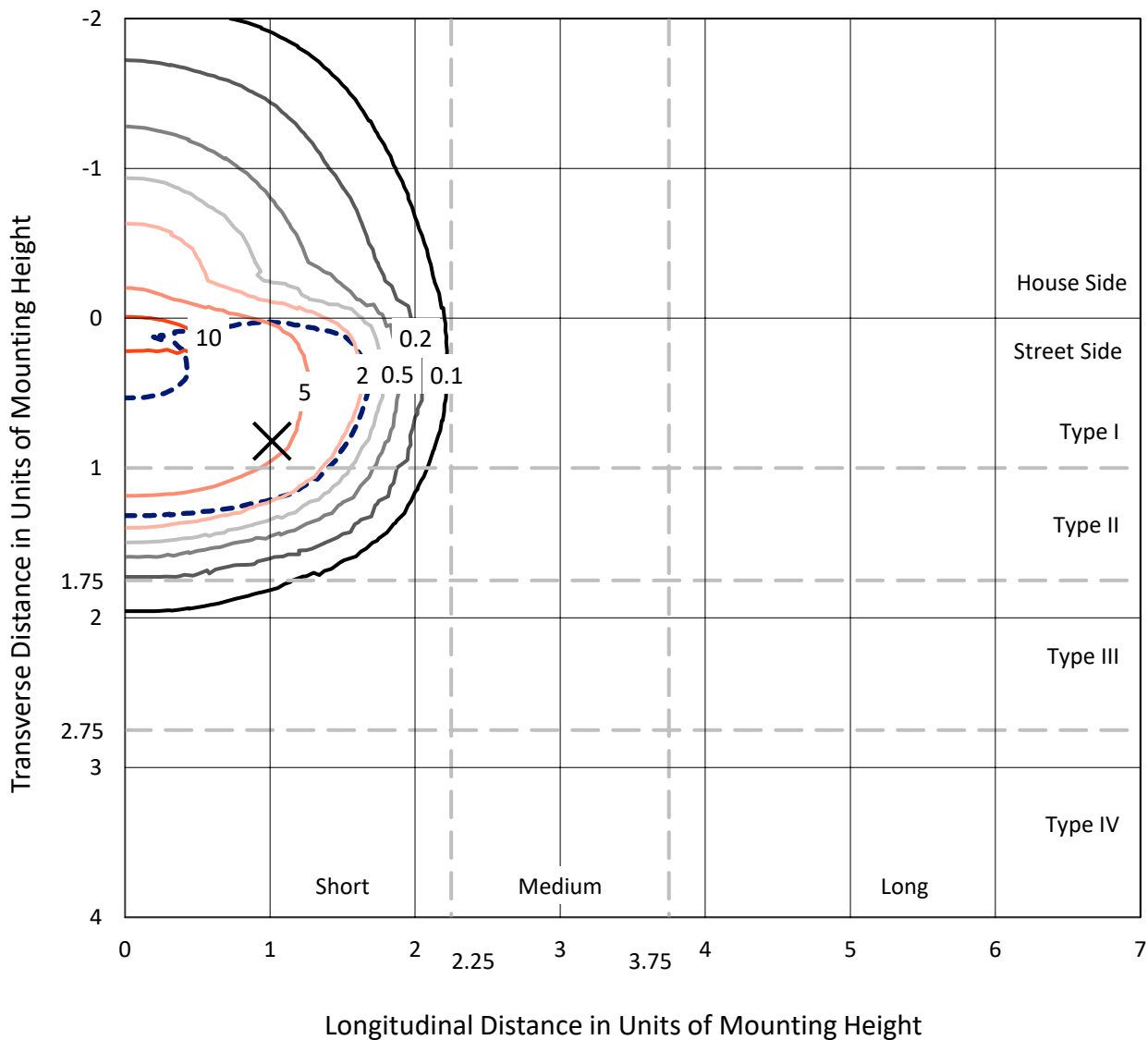
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

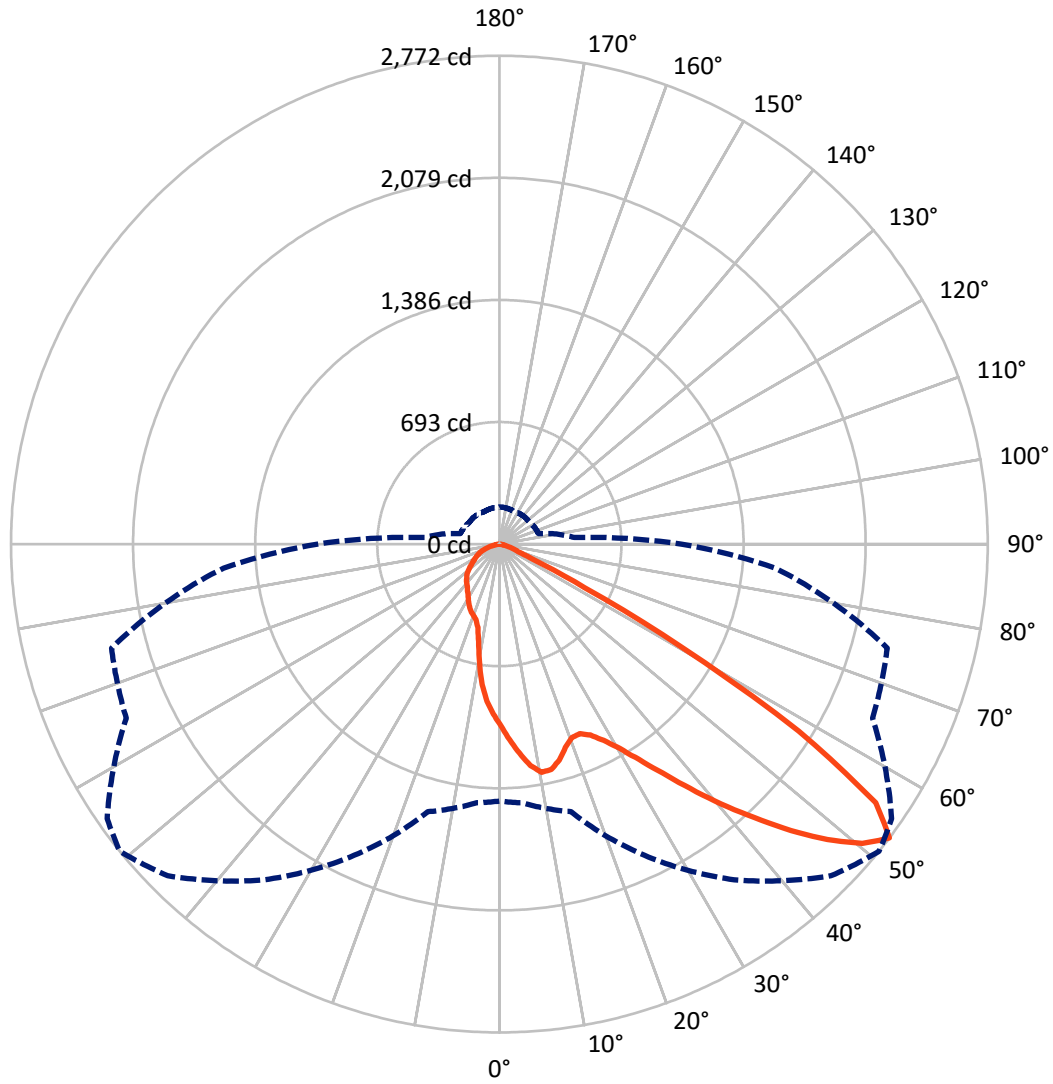
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 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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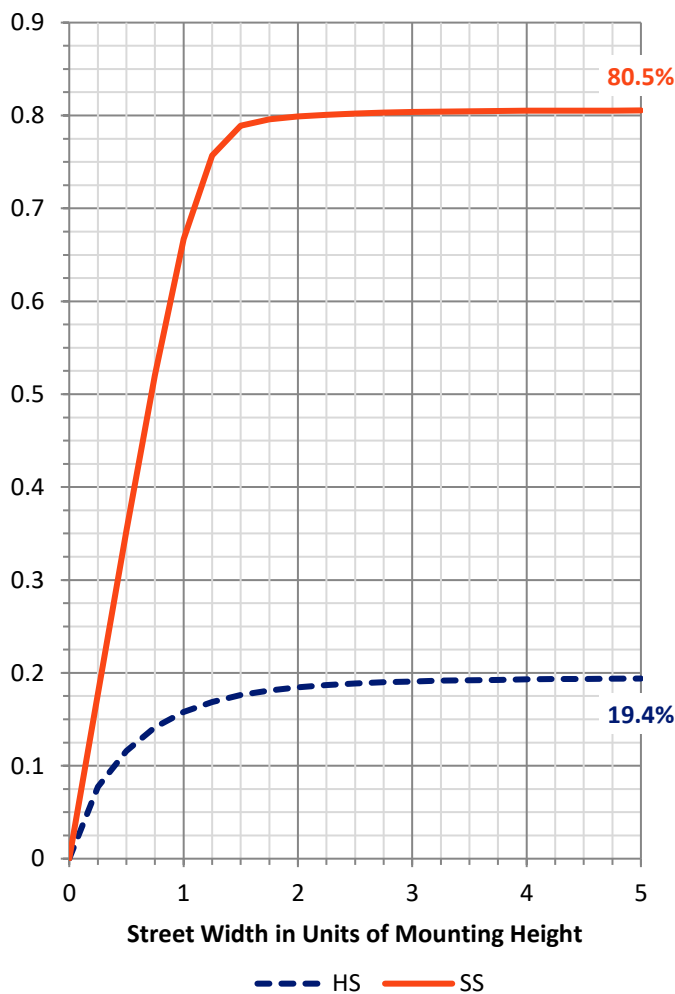
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	674.9	0.0	674.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2789.0	0.0	2789.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	3463.9	0.0	3463.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	2.8
10°-20°	250.1	7.2
20°-30°	406.6	11.7
30°-40°	644.4	18.6
40°-50°	971.8	28.1
50°-60°	840.7	24.3
60°-70°	190.6	5.5
70°-80°	56.2	1.6
80°-90°	7.2	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°	3463.9	100.0
0°-180°	3463.9	100.0

Coefficient of Utilization



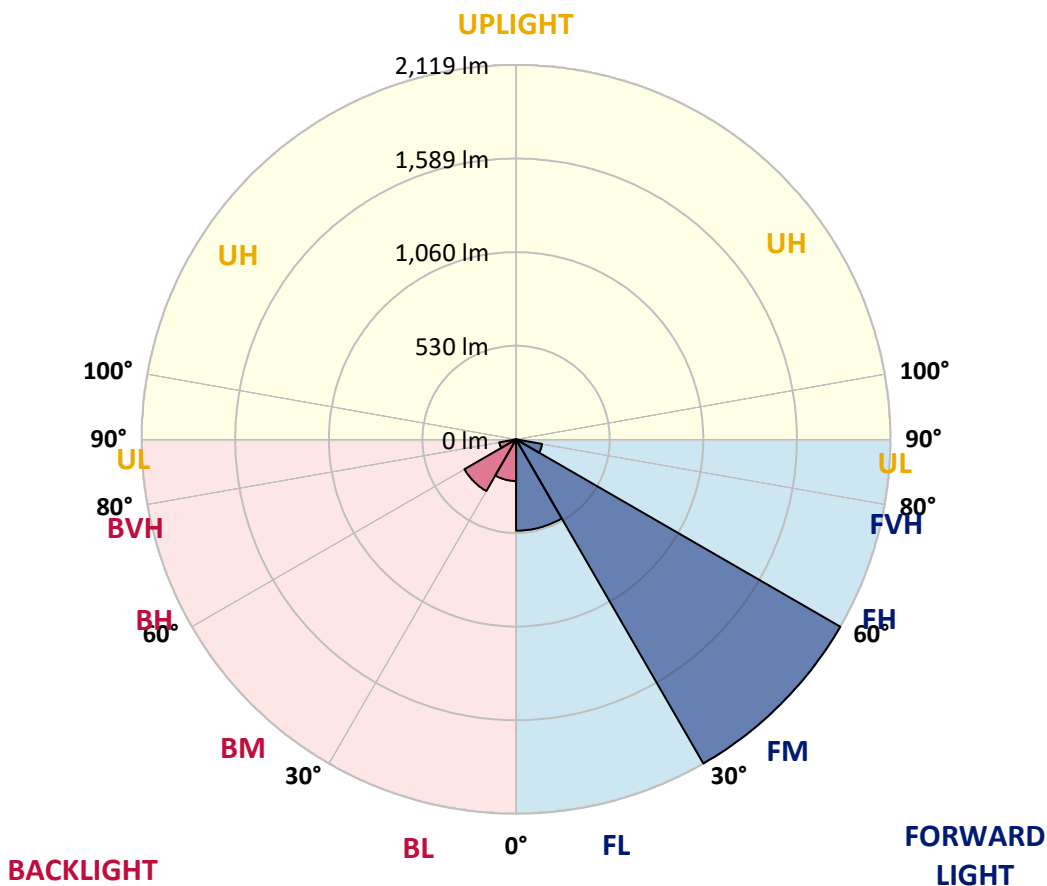
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.0	14.9			
FM (30°-60°)	2119.3	61.2			
FH (60°-80°)	150.0	4.3			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	235.9	6.8	B1/500		
BM (30°-60°)	337.7	9.7	B1/1000		
BH (60°-80°)	96.8	2.8	B0/110		G0/110
BVH (80°-90°)	4.5	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°	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4
2.5°	1149.3	1155.9	1145.8	1142.0	1135.7	1124.7	1112.1	1108.6	1081.5	1063.7	1043.7
5°	1264.9	1268.4	1260.2	1252.0	1236.4	1217.0	1192.6	1187.4	1138.1	1097.3	1054.9
7.5°	1290.6	1289.2	1296.3	1301.0	1299.1	1291.4	1269.8	1259.7	1200.8	1136.2	1073.5
10°	1188.8	1181.1	1207.4	1238.6	1276.1	1319.3	1316.9	1316.0	1264.9	1188.5	1097.3
12.5°	1053.8	1050.0	1071.3	1110.5	1181.4	1277.2	1313.0	1341.0	1322.6	1238.3	1123.9
15°	976.6	975.3	989.8	1018.0	1074.3	1195.3	1272.0	1327.3	1372.2	1291.7	1152.1
17.5°	962.7	963.5	968.4	984.6	1025.1	1124.7	1213.4	1290.6	1410.8	1350.3	1187.4
20°	1003.5	1008.9	1000.4	1002.9	1024.8	1099.3	1173.4	1253.6	1435.4	1409.1	1225.4
22.5°	1094.1	1092.1	1073.5	1062.6	1062.9	1114.9	1169.1	1236.4	1451.5	1466.3	1259.9
25°	1196.7	1194.5	1172.3	1148.0	1132.7	1157.3	1200.5	1254.7	1466.0	1518.6	1287.6
27.5°	1318.0	1311.1	1286.5	1255.3	1221.3	1232.0	1261.3	1304.3	1488.5	1570.1	1305.9
30°	1435.4	1443.3	1408.0	1371.1	1335.2	1328.6	1345.6	1384.5	1534.2	1630.3	1327.8
32.5°	1591.1	1588.4	1549.3	1501.1	1449.9	1445.0	1458.4	1494.0	1616.3	1713.5	1361.2
35°	1779.7	1780.3	1724.7	1659.6	1586.8	1573.6	1596.1	1630.5	1738.7	1826.3	1414.0
37.5°	1975.7	1974.9	1926.4	1852.5	1753.2	1734.6	1760.3	1786.0	1891.7	1979.8	1496.2
40°	2113.1	2118.6	2095.9	2057.0	1962.8	1917.4	1940.1	1957.9	2058.1	2160.5	1604.3
42.5°	2191.1	2199.3	2204.3	2227.5	2178.0	2129.5	2121.3	2130.6	2206.7	2328.3	1705.8
45°	2207.8	2218.8	2254.6	2340.9	2360.0	2346.3	2319.5	2297.1	2317.6	2447.3	1772.3
47.5°	2134.2	2153.4	2230.0	2380.8	2492.8	2535.7	2505.9	2471.7	2381.6	2478.0	1765.5
50°	1842.4	1864.9	2037.6	2299.2	2511.7	2668.2	2671.0	2620.3	2374.0	2389.6	1679.5
52.5°	1458.7	1474.0	1572.8	1949.2	2326.3	2662.7	2772.2	2718.0	2337.0	2279.0	1572.0
55°	871.8	896.4	988.7	1285.9	1812.3	2360.0	2593.2	2619.5	2319.0	2186.2	1498.6
57.5°	294.2	306.3	394.4	568.0	1068.1	1728.0	2003.6	2110.4	2105.2	2044.4	1355.5
60°	140.1	142.9	160.7	215.4	427.6	903.0	1186.0	1309.2	1421.4	1432.6	843.3
62.5°	106.8	108.4	117.4	129.2	171.9	380.5	543.6	637.8	681.3	584.7	307.1
65°	89.2	90.6	97.4	104.8	116.9	164.8	208.6	240.6	216.8	168.9	146.4
67.5°	74.5	75.5	80.7	88.7	96.9	110.3	115.8	119.1	124.8	140.1	134.7
70°	58.3	59.4	64.9	71.7	79.7	82.9	88.1	91.4	102.9	122.6	122.1
72.5°	44.9	46.3	49.3	53.6	60.2	63.5	69.3	73.1	79.7	95.5	102.1
75°	32.8	33.7	36.4	37.8	38.6	37.8	43.5	47.9	56.7	62.7	64.3
77.5°	13.4	15.1	14.5	14.5	17.2	20.8	23.8	26.6	32.6	36.1	36.4
80°	5.5	6.0	7.1	7.9	9.6	12.3	14.2	15.3	18.1	20.3	21.9
82.5°	3.3	3.6	4.1	4.4	5.5	7.1	8.2	9.0	11.2	13.4	14.2
85°	1.6	1.6	1.9	2.2	2.7	3.3	3.8	4.4	5.7	7.1	7.9
87.5°	0.3	0.3	0.3	0.5	0.8	1.1	1.4	1.6	1.9	2.2	2.7
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°	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4
2.5°	1031.9	1017.1	999.9	986.2	970.3	958.6	941.9	931.5	921.6	913.4	907.4
5°	1033.0	1008.1	972.3	940.5	907.7	876.5	844.4	818.4	795.2	775.7	774.1
7.5°	1039.3	1003.5	947.3	891.8	827.7	765.9	704.0	653.6	615.3	595.3	591.2
10°	1050.0	1002.9	921.9	833.2	724.0	624.4	551.0	512.7	490.5	482.6	479.8
12.5°	1061.2	1001.5	889.3	750.5	598.9	511.6	471.3	466.7	470.8	471.3	471.1
15°	1074.9	1000.7	848.3	653.6	507.5	459.3	462.0	471.9	481.5	483.7	483.7
17.5°	1091.6	998.8	792.4	558.9	450.3	449.2	463.7	476.8	485.9	487.5	487.5
20°	1109.1	993.9	723.7	481.7	427.0	442.9	458.5	468.6	474.9	477.1	477.4
22.5°	1121.2	980.7	644.6	424.5	412.5	430.8	442.1	452.5	452.5	447.0	445.3
25°	1123.6	952.5	558.9	385.4	395.3	412.2	423.7	417.7	406.5	402.1	401.8
27.5°	1114.6	911.5	474.4	357.5	374.4	391.4	389.5	380.7	375.8	371.4	373.1
30°	1103.6	862.2	401.0	334.5	350.4	367.1	360.5	357.5	353.9	349.0	350.1
32.5°	1096.2	807.2	344.6	316.7	334.2	336.9	341.6	341.3	338.0	328.7	328.2
35°	1098.4	751.6	306.8	302.2	320.8	319.7	328.5	326.8	304.1	291.2	290.4
37.5°	1116.0	698.3	284.7	290.7	299.4	306.3	314.0	294.2	286.3	278.1	278.6
40°	1149.3	648.7	272.6	284.4	286.6	296.7	278.9	278.6	275.1	267.7	267.4
42.5°	1187.1	606.8	264.4	281.4	278.4	280.3	261.4	263.6	263.3	258.7	257.3
45°	1210.1	568.2	257.8	270.2	271.0	251.8	246.1	248.5	249.9	247.4	247.2
47.5°	1186.3	523.9	251.0	252.9	260.0	239.0	231.8	232.1	234.6	234.9	233.8
50°	1119.5	474.4	242.8	238.1	233.5	225.5	219.0	217.6	220.1	222.5	223.4
52.5°	1033.3	427.0	229.1	222.0	211.0	211.0	208.0	203.6	206.9	210.2	211.3
55°	970.1	392.0	209.7	201.7	189.7	193.8	193.2	189.4	193.8	196.3	197.1
57.5°	840.6	315.1	184.5	182.0	171.9	176.8	177.9	173.0	170.8	171.3	172.2
60°	499.0	203.4	166.4	166.1	157.1	162.9	166.1	161.2	154.7	155.5	156.6
62.5°	223.9	155.5	143.7	142.6	142.3	149.7	153.3	148.6	139.3	140.1	141.2
65°	141.0	134.4	124.8	124.8	129.2	135.5	138.2	134.4	123.7	122.4	123.4
67.5°	130.8	125.1	115.2	113.3	115.5	120.7	121.0	113.6	107.3	106.2	106.2
70°	117.4	113.0	103.5	99.6	98.8	98.5	97.7	95.8	91.7	90.6	91.1
72.5°	97.2	94.2	88.1	84.0	81.8	81.6	78.3	76.6	73.1	72.5	72.3
75°	64.3	65.1	65.1	64.6	62.7	61.9	58.3	56.7	52.6	50.9	50.6
77.5°	38.0	38.9	40.0	40.2	40.0	40.0	36.7	34.8	30.7	28.5	27.9
80°	23.3	23.8	24.4	25.2	24.1	23.3	20.3	18.3	16.4	15.1	14.8
82.5°	15.1	15.6	15.9	16.4	15.9	14.8	12.3	11.2	9.9	8.8	8.5
85°	8.5	8.8	9.3	9.3	8.5	7.7	6.3	5.5	4.7	4.1	4.1
87.5°	3.0	3.0	3.0	3.3	2.7	2.5	1.6	1.1	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)