

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: P630487

Luminaire Tested: GWS-SA1D-827-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-827-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3357.2 lumens
Efficiency: N/A
Efficacy: 75.8 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

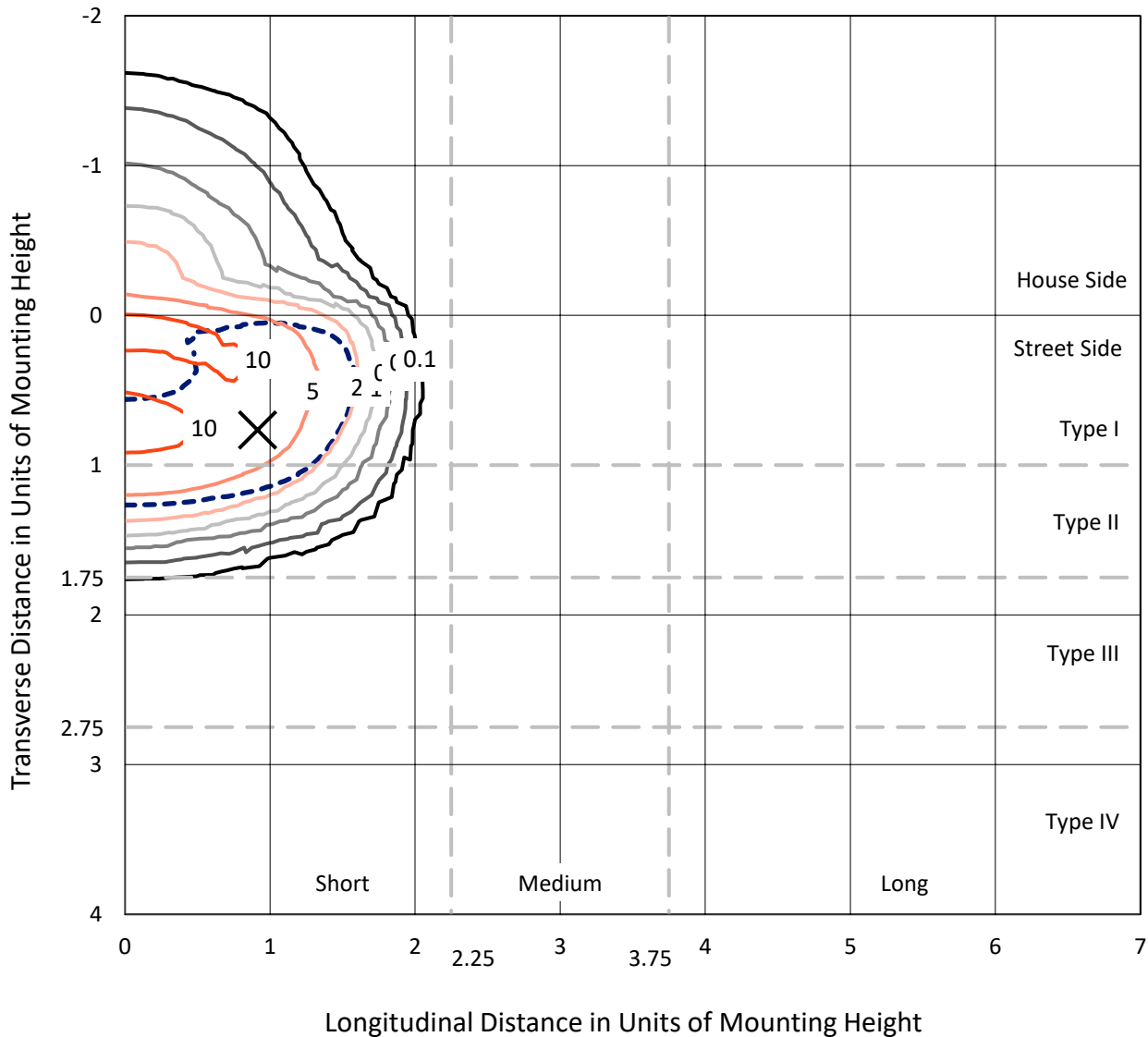
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

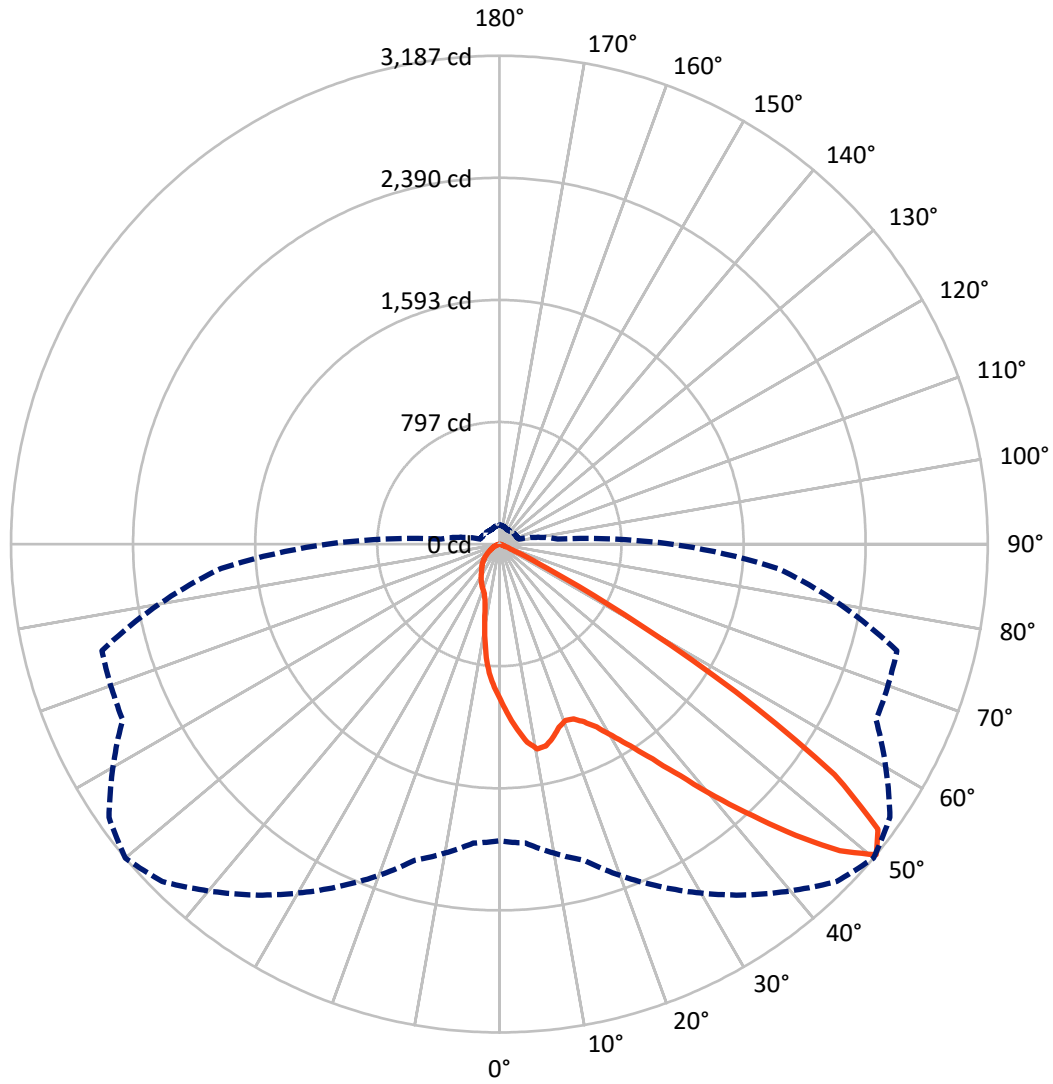
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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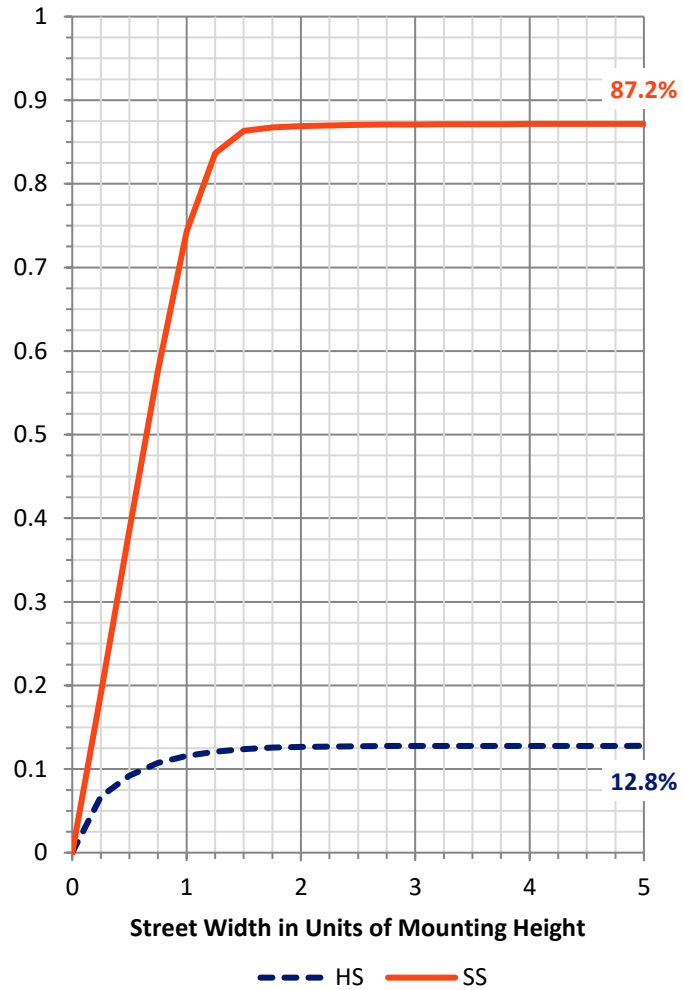
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	431.4	0.0	431.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2925.9	0.0	2925.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	3357.2	0.0	3357.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	2.8
10°-20°	243.4	7.3
20°-30°	401.8	12.0
30°-40°	663.0	19.7
40°-50°	1049.0	31.2
50°-60°	794.2	23.7
60°-70°	99.4	3.0
70°-80°	11.3	0.3
80°-90°	0.9	0.0
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°	3357.2	100.0
0°-180°	3357.2	100.0

Coefficient of Utilization

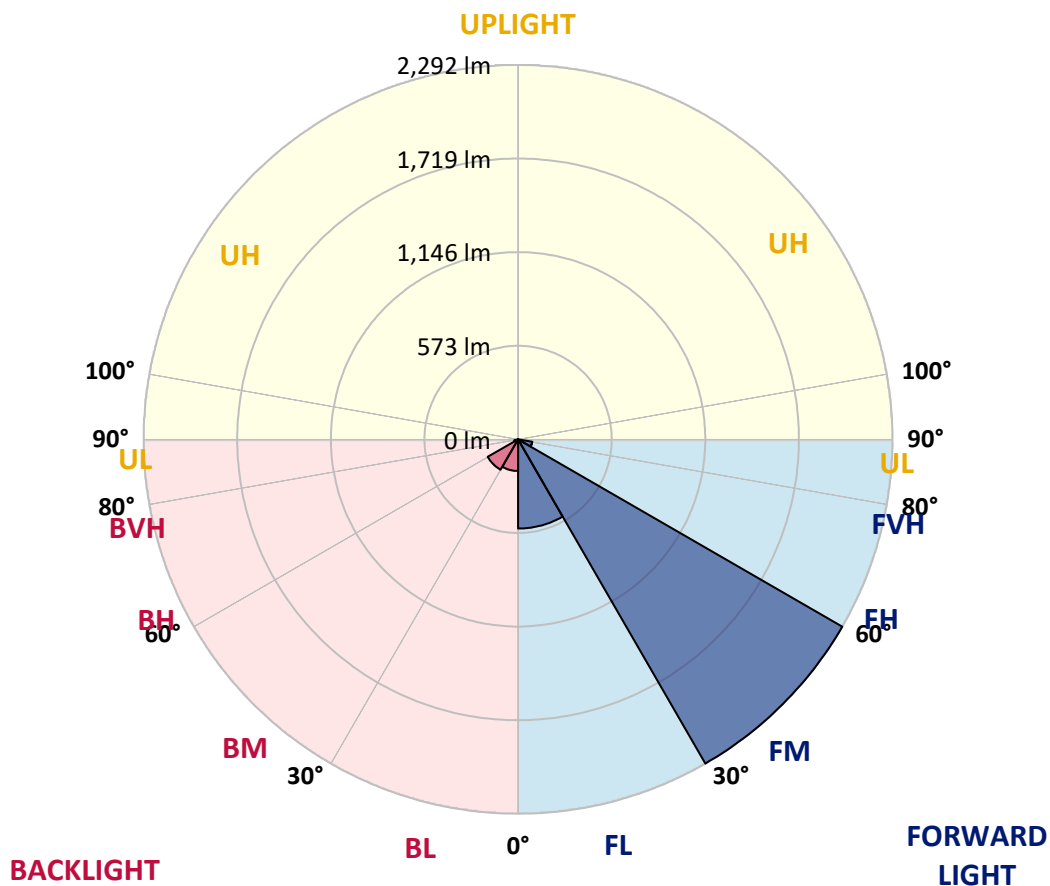


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.9	16.3			
FM (30°-60°)	2291.6	68.3			
FH (60°-80°)	87.9	2.6			G0/660
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	193.6	5.8	B1/500		
BM (30°-60°)	214.5	6.4	B0/220		
BH (60°-80°)	22.8	0.7	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			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°	50°	55°	65°	75°	85°
0°	1017.1	1017.1	1017.1	1017.1	1017.1	1017.1	1017.1	1017.1	1017.1	1017.1	1017.1
2.5°	1159.0	1168.2	1165.7	1153.5	1140.4	1131.2	1116.8	1112.3	1079.7	1057.0	1033.1
5°	1298.9	1301.8	1298.6	1283.9	1260.9	1238.9	1215.2	1201.5	1146.8	1097.6	1047.5
7.5°	1332.5	1329.0	1335.0	1342.4	1339.2	1329.6	1304.7	1289.7	1224.5	1144.3	1068.2
10°	1227.7	1219.7	1242.4	1280.4	1320.3	1365.4	1359.0	1360.3	1300.2	1203.1	1095.4
12.5°	1088.7	1085.5	1102.4	1146.5	1224.8	1327.1	1351.7	1392.9	1369.6	1266.7	1126.4
15°	1027.6	1029.2	1039.5	1067.3	1123.5	1250.7	1309.8	1384.3	1431.5	1328.3	1160.6
17.5°	1036.9	1042.7	1042.3	1051.6	1085.8	1187.7	1256.8	1357.1	1479.5	1399.3	1199.9
20°	1099.9	1105.6	1097.0	1090.0	1101.5	1171.8	1229.0	1329.6	1511.7	1470.8	1241.4
22.5°	1194.1	1200.8	1180.4	1160.3	1152.9	1198.0	1239.5	1318.4	1536.4	1536.4	1278.5
25°	1308.2	1317.5	1285.8	1250.0	1229.6	1253.2	1284.6	1343.7	1561.6	1595.1	1303.7
27.5°	1435.7	1436.0	1408.9	1368.6	1330.2	1333.1	1352.0	1400.5	1589.4	1658.4	1323.5
30°	1579.2	1580.1	1544.0	1495.8	1447.5	1434.4	1450.4	1487.1	1647.2	1738.0	1351.0
32.5°	1764.5	1769.0	1717.2	1646.3	1583.6	1559.0	1568.3	1607.0	1739.3	1837.7	1392.2
35°	2015.0	2019.8	1943.4	1849.8	1750.1	1713.1	1722.3	1761.3	1872.5	1979.2	1458.1
37.5°	2262.3	2268.7	2191.4	2104.2	1967.4	1906.1	1915.6	1952.7	2072.5	2174.8	1563.5
40°	2433.3	2441.9	2418.0	2359.2	2232.3	2151.8	2163.3	2176.7	2292.7	2408.7	1700.3
42.5°	2523.4	2535.6	2545.8	2575.8	2509.0	2441.6	2422.1	2423.1	2516.7	2647.1	1842.5
45°	2528.8	2540.7	2593.1	2709.1	2759.9	2745.8	2710.3	2686.4	2687.7	2805.9	1931.3
47.5°	2353.1	2375.1	2473.2	2700.4	2891.5	3008.2	2990.3	2933.4	2759.6	2816.4	1921.7
50°	1936.7	1958.5	2136.8	2463.7	2795.7	3113.0	3186.8	3110.4	2712.6	2685.1	1823.0
52.5°	1406.6	1408.9	1524.5	1906.4	2407.1	2919.6	3093.5	3086.1	2641.0	2526.0	1688.1
55°	668.2	660.2	790.2	1075.9	1664.8	2361.4	2654.4	2737.5	2539.4	2410.9	1583.6
57.5°	194.6	198.4	256.3	419.9	832.7	1509.2	1817.9	1972.5	2084.4	1982.1	1228.3
60°	87.2	87.6	97.5	127.8	277.4	702.0	939.8	1131.2	1246.2	1154.8	609.4
62.5°	63.3	63.6	67.4	72.2	94.3	237.7	352.5	469.7	478.4	313.1	154.3
65°	52.7	52.7	53.4	53.4	56.6	85.0	107.0	138.0	116.3	86.3	60.4
67.5°	42.5	42.8	43.5	43.5	42.5	42.5	46.0	50.5	54.0	66.8	55.6
70°	33.2	32.9	32.9	33.2	32.3	27.5	29.7	33.9	37.1	52.1	48.3
72.5°	25.9	26.2	25.9	24.6	22.4	16.3	17.6	22.0	23.6	32.6	32.6
75°	19.5	19.8	18.5	14.1	9.3	5.1	6.7	10.9	13.7	16.0	11.8
77.5°	2.6	2.6	1.9	1.9	1.6	1.9	1.9	2.6	3.8	3.8	2.9
80°	0.3	0.3	0.3	0.6	1.0	1.3	1.3	1.3	1.3	1.6	1.6
82.5°	0.3	0.3	0.3	0.3	1.0	1.0	1.3	1.3	1.3	1.3	1.3
85°	0.0	0.0	0.0	0.3	0.6	1.0	1.0	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.3	0.6	1.0	1.0	1.0	1.3	1.3	1.3
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°	1017.1	1017.1	1017.1	1017.1	1017.1	1017.1	1017.1	1017.1	1017.1	1017.1	1017.1
2.5°	1018.7	1000.2	977.8	962.5	940.7	926.3	905.9	892.2	880.3	871.1	876.2
5°	1019.0	989.6	943.9	904.9	862.4	823.5	781.6	748.7	719.0	705.5	712.9
7.5°	1025.4	983.2	913.2	843.9	762.4	681.9	606.5	545.1	514.8	500.4	504.9
10°	1037.9	980.4	879.1	764.0	631.7	521.8	448.6	407.1	390.2	381.2	382.8
12.5°	1049.4	978.4	834.6	658.9	498.5	404.9	366.8	361.1	364.6	364.9	364.6
15°	1065.0	974.9	779.7	550.9	398.8	349.9	350.9	359.2	367.5	370.0	369.4
17.5°	1081.6	969.5	708.7	447.4	338.4	333.9	345.1	356.3	364.6	365.9	366.2
20°	1098.9	958.3	627.9	365.2	310.3	321.8	334.2	342.5	348.6	350.5	351.2
22.5°	1106.9	934.7	534.6	306.4	291.4	306.8	316.0	326.9	328.8	321.8	323.1
25°	1102.7	894.7	443.5	266.8	272.6	287.9	301.6	296.2	288.2	283.1	284.7
27.5°	1089.6	841.7	354.4	237.7	252.4	271.9	273.5	267.5	266.2	262.0	263.3
30°	1075.6	780.6	285.0	214.4	232.0	252.4	247.6	249.9	250.2	245.4	247.0
32.5°	1066.9	716.7	226.9	198.8	218.9	222.7	232.3	236.8	237.1	225.9	227.8
35°	1069.8	653.8	192.0	186.0	206.7	205.8	219.2	221.8	203.2	187.9	189.5
37.5°	1093.1	595.6	172.2	176.1	185.7	193.0	203.2	186.3	182.1	175.1	176.1
40°	1136.6	546.1	160.4	170.0	171.3	183.1	167.4	169.7	170.0	165.5	166.5
42.5°	1187.4	504.9	153.4	166.5	163.3	165.2	149.5	154.0	158.8	156.9	157.2
45°	1213.0	464.6	147.3	154.3	155.3	137.1	133.6	138.4	144.4	145.4	145.7
47.5°	1190.3	426.3	140.9	136.8	143.2	124.9	120.8	122.4	129.4	133.2	133.9
50°	1120.9	382.2	131.3	121.1	117.6	112.2	108.3	108.6	116.6	123.3	124.6
52.5°	1023.5	336.2	115.7	102.6	94.6	98.7	99.7	97.8	105.1	111.8	113.1
55°	928.9	278.6	91.7	83.4	76.1	85.0	87.6	85.0	87.2	91.7	92.0
57.5°	654.1	157.5	70.3	69.0	62.9	72.9	77.0	73.2	69.3	72.2	72.9
60°	303.2	82.4	54.0	54.0	52.4	62.6	69.7	64.2	56.9	58.2	59.1
62.5°	94.9	52.1	39.6	37.4	42.8	53.4	59.1	53.7	45.1	45.1	46.3
65°	53.7	44.7	31.3	28.8	34.8	42.8	46.3	40.6	32.9	32.3	32.3
67.5°	49.8	42.5	27.8	23.3	24.6	27.5	28.8	24.9	22.7	22.4	22.7
70°	41.2	35.5	22.4	16.0	15.0	14.7	15.3	14.4	13.7	14.1	15.0
72.5°	25.6	21.4	14.1	9.6	8.3	8.0	8.0	8.0	7.7	7.7	7.7
75°	9.3	8.0	6.4	4.8	4.2	3.8	3.8	4.2	3.8	3.5	3.2
77.5°	2.9	2.6	2.6	2.6	2.2	1.9	1.6	1.6	1.3	1.0	1.0
80°	1.6	1.6	1.6	1.6	1.3	1.3	1.0	0.6	0.3	0.3	0.0
82.5°	1.6	1.6	1.6	1.3	1.3	1.3	1.0	0.6	0.3	0.0	0.0
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.0	0.6	0.3	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.0	0.6	0.3	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)