

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P527125

Luminaire Tested: **GALN-SA2A-760-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-760-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5492 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

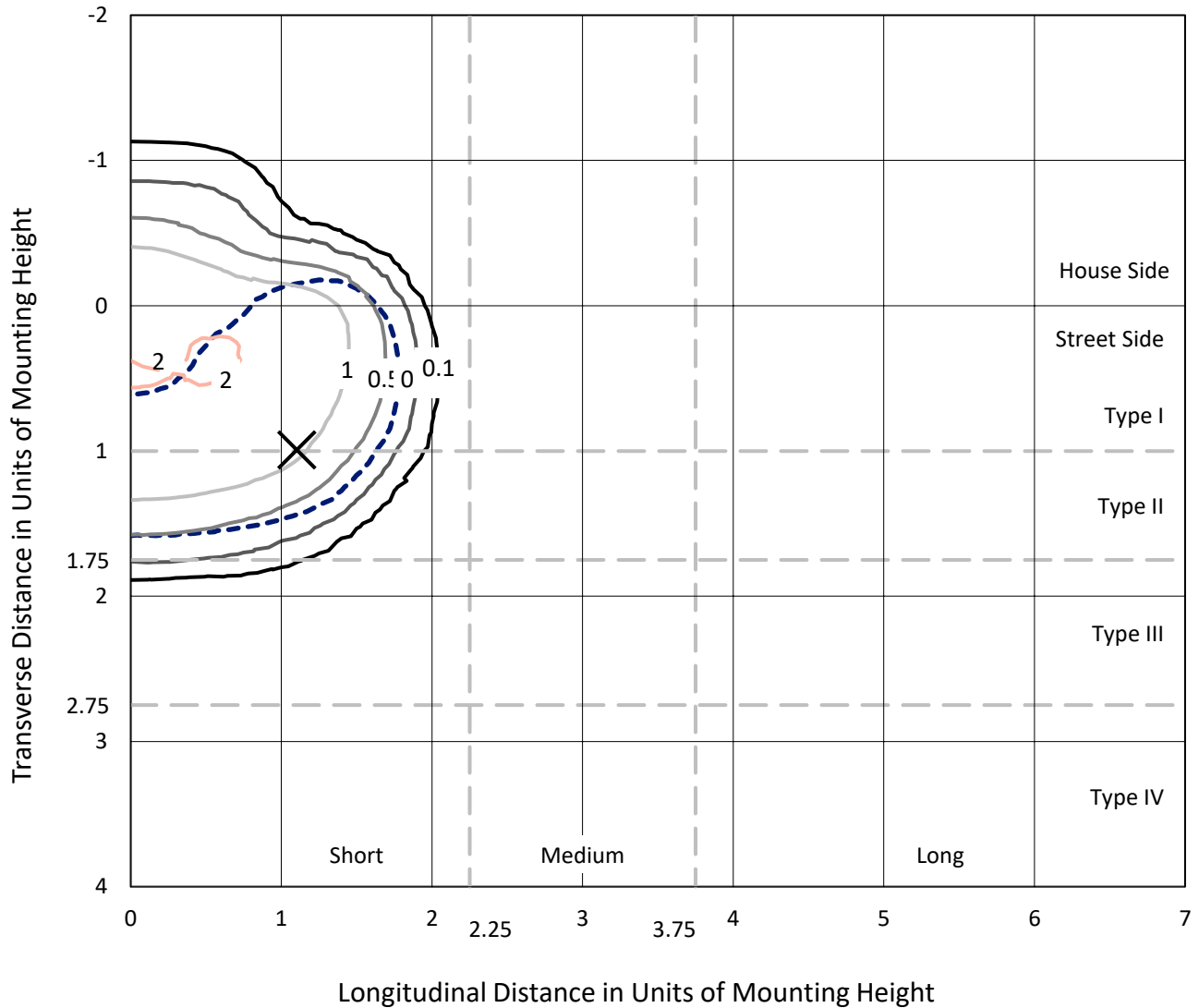
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

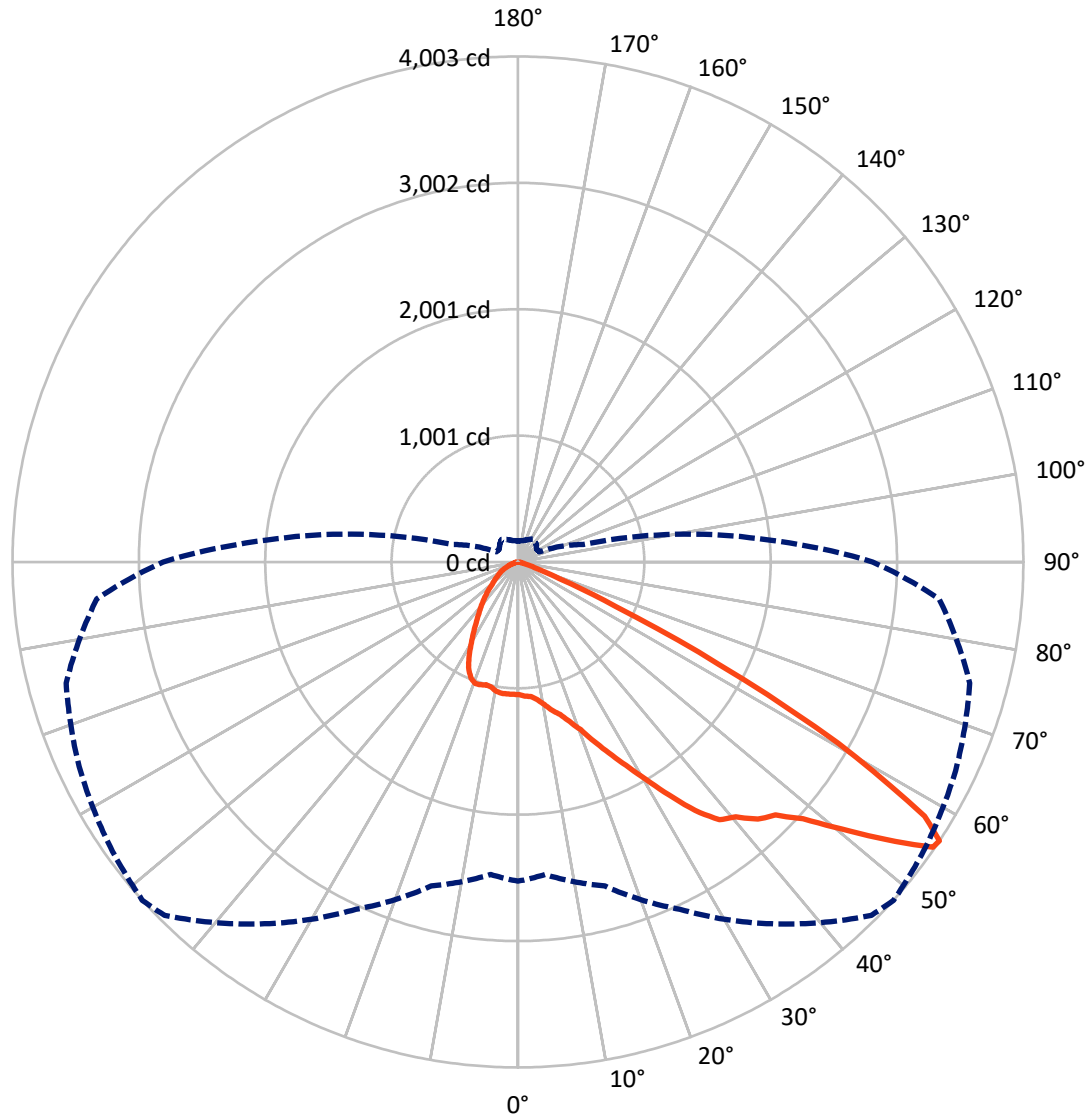
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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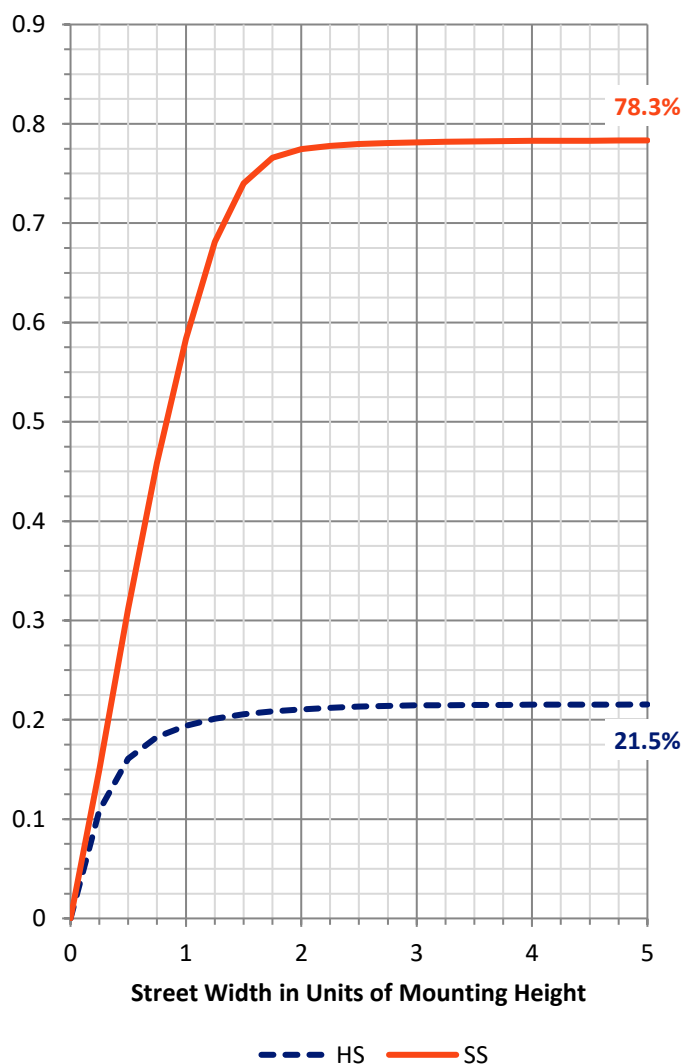
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1194.4	0.0	1194.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4297.6	0.0	4297.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	5492.0	0.0	5492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	1.9
10°-20°	326.6	5.9
20°-30°	592.3	10.8
30°-40°	930.4	16.9
40°-50°	1357.3	24.7
50°-60°	1635.2	29.8
60°-70°	478.8	8.7
70°-80°	60.7	1.1
80°-90°	8.5	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°	5492.0	100.0
0°-180°	5492.0	100.0

Coefficient of Utilization

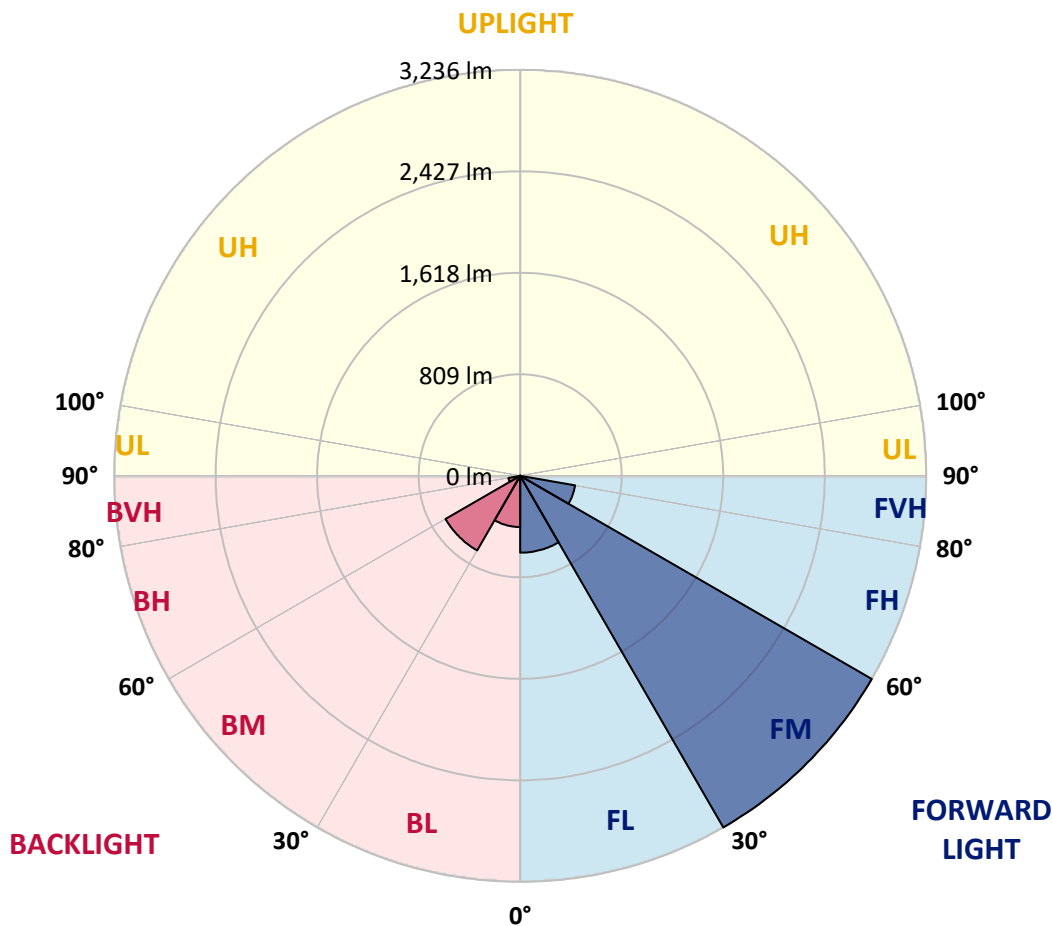


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.8	11.2			
FM (30°-60°)	3235.9	58.9			
FH (60°-80°)	444.6	8.1			G0/660
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	408.3	7.4	B1/500		
BM (30°-60°)	687.0	12.5	B1/1000		
BH (60°-80°)	94.9	1.7	B0/110		G0/110
BVH (80°-90°)	4.2	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°	48°	55°	65°	75°	85°
0°	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0
2.5°	1068.0	1063.0	1063.0	1055.0	1064.0	1060.0	1063.0	1053.0	1063.0	1048.0	1060.0
5°	1073.0	1074.0	1070.0	1075.0	1075.0	1081.0	1071.0	1080.0	1085.0	1074.0	1069.0
7.5°	1099.0	1101.0	1100.0	1096.0	1104.0	1103.0	1102.0	1095.0	1097.0	1093.0	1087.0
10°	1150.0	1149.0	1154.0	1144.0	1138.0	1145.0	1147.0	1136.0	1128.0	1125.0	1106.0
12.5°	1224.0	1212.0	1205.0	1195.0	1198.0	1188.0	1206.0	1187.0	1183.0	1165.0	1146.0
15°	1284.0	1282.0	1283.0	1267.0	1249.0	1253.0	1253.0	1243.0	1237.0	1215.0	1188.0
17.5°	1407.0	1365.0	1374.0	1354.0	1339.0	1338.0	1329.0	1331.0	1315.0	1269.0	1228.0
20°	1503.0	1485.0	1471.0	1437.0	1414.0	1421.0	1417.0	1407.0	1402.0	1342.0	1284.0
22.5°	1589.0	1595.0	1572.0	1563.0	1531.0	1534.0	1542.0	1533.0	1495.0	1433.0	1347.0
25°	1710.0	1703.0	1672.0	1661.0	1631.0	1642.0	1673.0	1666.0	1642.0	1530.0	1396.0
27.5°	1853.0	1829.0	1835.0	1785.0	1756.0	1787.0	1824.0	1859.0	1791.0	1644.0	1454.0
30°	1954.0	1929.0	1927.0	1925.0	1918.0	1954.0	1997.0	2029.0	1974.0	1758.0	1550.0
32.5°	2004.0	2010.0	2027.0	2021.0	2081.9	2155.9	2200.9	2246.9	2177.9	1944.0	1677.0
35°	2136.9	2098.9	2136.9	2140.9	2203.9	2360.9	2417.9	2527.9	2510.9	2206.9	1832.0
37.5°	2214.9	2211.9	2216.9	2254.9	2315.9	2509.9	2590.9	2675.9	2643.9	2364.9	2025.0
40°	2343.9	2351.9	2350.9	2379.9	2446.9	2621.9	2654.9	2723.9	2726.9	2583.9	2308.9
42.5°	2550.9	2518.9	2497.9	2527.9	2621.9	2718.9	2784.9	2770.9	2869.9	2849.9	2673.9
45°	2736.9	2755.9	2724.9	2774.9	2808.9	2860.9	2858.9	2888.9	3014.9	3109.9	2948.9
47.5°	2910.9	2922.9	2937.9	2971.9	3045.9	3053.9	3036.9	3023.9	3197.9	3295.9	3161.9
50°	3014.9	3025.9	3095.9	3156.9	3294.9	3312.9	3322.9	3289.9	3407.9	3418.9	3362.9
52.5°	2986.9	2998.9	3096.9	3297.9	3517.9	3682.9	3652.9	3596.9	3589.9	3632.9	3548.9
55°	2738.9	2727.9	2862.9	3175.9	3587.9	3983.9	3987.9	3928.9	3815.9	3786.9	3520.9
56°	2527.9	2484.9	2656.9	3034.9	3497.9	3957.9	4002.9	3939.9	3833.9	3703.9	3347.9
57.5°	2070.9	2111.9	2282.9	2595.9	3186.9	3770.9	3796.9	3781.9	3701.9	3483.9	2945.9
60°	1142.0	1214.0	1365.0	1748.0	2268.9	2893.9	2914.9	3036.9	3051.9	2667.9	2027.0
62.5°	485.0	477.0	634.0	916.0	1292.0	1747.0	1786.0	1911.0	1934.0	1538.0	1017.0
65°	197.0	208.0	287.0	461.0	683.0	796.0	851.0	892.0	968.0	635.0	375.0
67.5°	130.0	129.0	169.0	263.0	368.0	355.0	355.0	375.0	347.0	259.0	162.0
70°	93.0	96.0	121.0	182.0	229.0	170.0	163.0	156.0	177.0	171.0	131.0
72.5°	61.0	65.0	81.0	109.0	119.0	93.0	93.0	112.0	146.0	138.0	107.0
75°	40.0	41.0	50.0	63.0	59.0	48.0	53.0	75.0	106.0	102.0	76.0
77.5°	27.0	28.0	34.0	41.0	33.0	27.0	29.0	38.0	52.0	52.0	40.0
80°	10.0	11.0	14.0	13.0	15.0	19.0	21.0	26.0	31.0	31.0	27.0
82.5°	0.0	1.0	3.0	7.0	11.0	15.0	17.0	20.0	23.0	26.0	25.0
85°	0.0	1.0	3.0	5.0	8.0	9.0	10.0	7.0	6.0	6.0	5.0
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0
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°	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0
2.5°	1049.0	1048.0	1048.0	1045.0	1051.0	1048.0	1050.0	1049.0	1036.0	1046.0	1039.0
5°	1060.0	1067.0	1056.0	1054.0	1046.0	1049.0	1049.0	1039.0	1048.0	1047.0	1045.0
7.5°	1088.0	1076.0	1064.0	1052.0	1050.0	1047.0	1036.0	1032.0	1039.0	1031.0	1043.0
10°	1100.0	1102.0	1084.0	1068.0	1053.0	1032.0	1017.0	1008.0	997.0	1009.0	1016.0
12.5°	1155.0	1135.0	1104.0	1079.0	1028.0	1007.0	992.0	988.0	1007.0	1011.0	1004.0
15°	1174.0	1171.0	1131.0	1075.0	1022.0	997.0	1000.0	992.0	994.0	984.0	986.0
17.5°	1213.0	1179.0	1132.0	1062.0	1021.0	1015.0	997.0	965.0	947.0	939.0	946.0
20°	1256.0	1223.0	1155.0	1067.0	1030.0	1014.0	955.0	916.0	879.0	859.0	860.0
22.5°	1294.0	1253.0	1145.0	1069.0	1038.0	972.0	901.0	824.0	778.0	747.0	748.0
25°	1340.0	1282.0	1149.0	1073.0	1017.0	905.0	803.0	728.0	673.0	652.0	659.0
27.5°	1366.0	1300.0	1171.0	1082.0	962.0	810.0	700.0	630.0	598.0	588.0	587.0
30°	1444.0	1340.0	1198.0	1064.0	870.0	708.0	606.0	563.0	532.0	523.0	525.0
32.5°	1560.0	1413.0	1233.0	1017.0	776.0	617.0	545.0	513.0	484.0	467.0	465.0
35°	1657.0	1538.0	1270.0	944.0	667.0	547.0	502.0	462.0	418.0	399.0	394.0
37.5°	1842.0	1679.0	1262.0	834.0	563.0	495.0	456.0	407.0	369.0	343.0	340.0
40°	2087.9	1844.0	1223.0	700.0	486.0	449.0	407.0	360.0	313.0	291.0	289.0
42.5°	2386.9	2046.0	1152.0	564.0	409.0	403.0	365.0	311.0	269.0	253.0	254.0
45°	2629.9	2218.9	1080.0	453.0	352.0	358.0	325.0	274.0	245.0	232.0	232.0
47.5°	2845.9	2335.9	1002.0	374.0	299.0	313.0	284.0	254.0	229.0	219.0	217.0
50°	3053.9	2454.9	924.0	303.0	255.0	269.0	266.0	242.0	222.0	210.0	211.0
52.5°	3183.9	2473.9	825.0	248.0	223.0	239.0	249.0	227.0	205.0	198.0	196.0
55°	3024.9	2228.9	640.0	204.0	189.0	210.0	229.0	204.0	187.0	175.0	174.0
56°	2810.9	1993.0	535.0	188.0	179.0	202.0	222.0	195.0	176.0	169.0	164.0
57.5°	2379.9	1631.0	395.0	167.0	166.0	188.0	211.0	186.0	164.0	158.0	158.0
60°	1484.0	918.0	239.0	140.0	144.0	167.0	190.0	166.0	146.0	146.0	149.0
62.5°	676.0	382.0	145.0	119.0	124.0	144.0	169.0	150.0	139.0	150.0	152.0
65°	230.0	165.0	105.0	95.0	98.0	119.0	145.0	152.0	151.0	158.0	162.0
67.5°	129.0	106.0	88.0	79.0	77.0	88.0	119.0	152.0	146.0	143.0	145.0
70°	109.0	90.0	78.0	70.0	67.0	71.0	92.0	115.0	103.0	100.0	98.0
72.5°	88.0	75.0	68.0	63.0	54.0	46.0	42.0	44.0	49.0	52.0	57.0
75°	62.0	57.0	57.0	51.0	39.0	29.0	23.0	19.0	13.0	9.0	10.0
77.5°	35.0	35.0	36.0	31.0	25.0	19.0	14.0	10.0	5.0	2.0	1.0
80°	24.0	26.0	28.0	25.0	21.0	17.0	12.0	7.0	3.0	0.0	0.0
82.5°	24.0	27.0	29.0	25.0	21.0	16.0	12.0	7.0	3.0	1.0	0.0
85°	5.0	6.0	7.0	8.0	12.0	12.0	9.0	6.0	3.0	1.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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)