

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: P526789

Luminaire Tested: **GALN-SA1D-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4335 lumens
Efficiency: N/A
Efficacy: 66.7 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

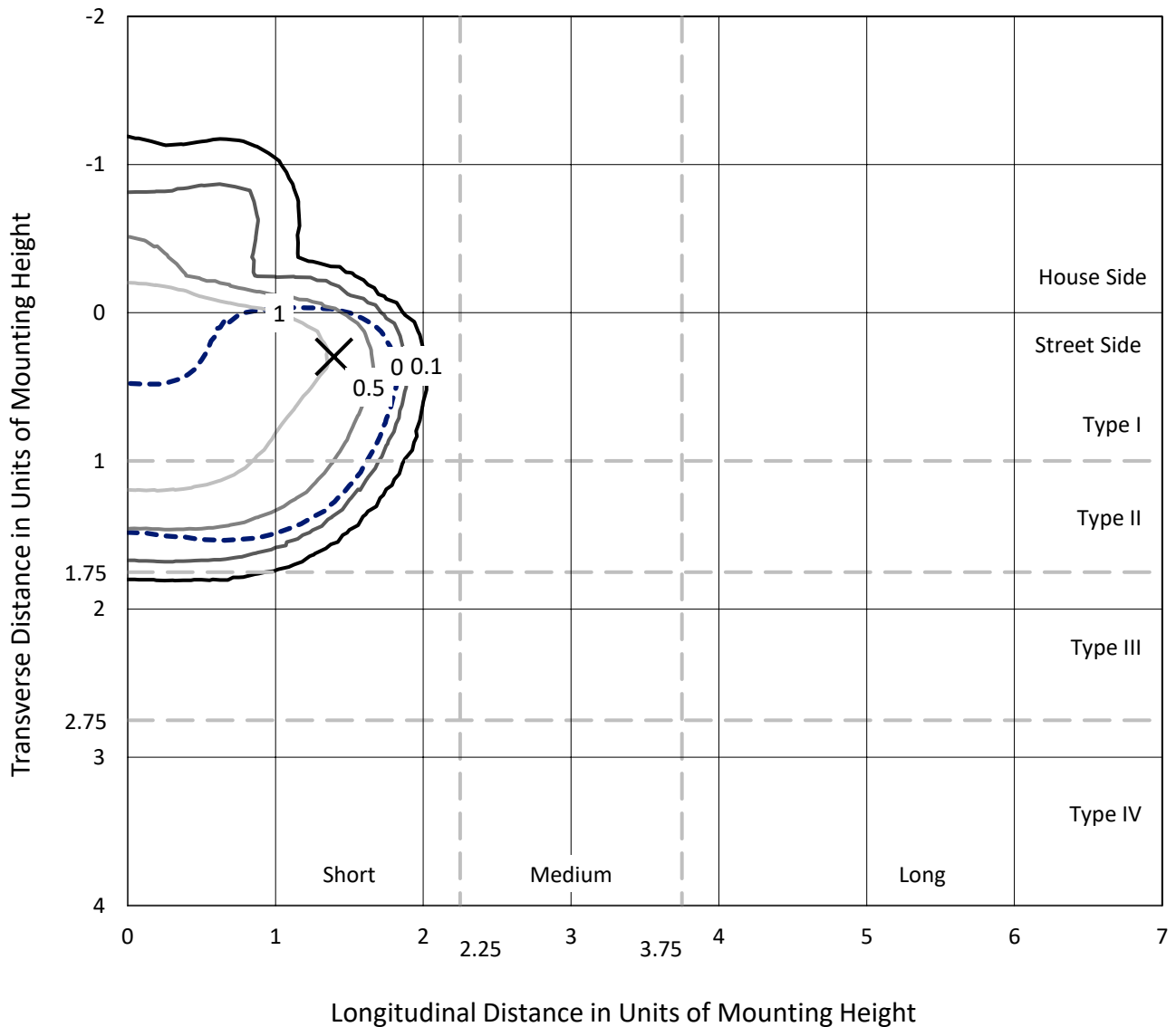
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

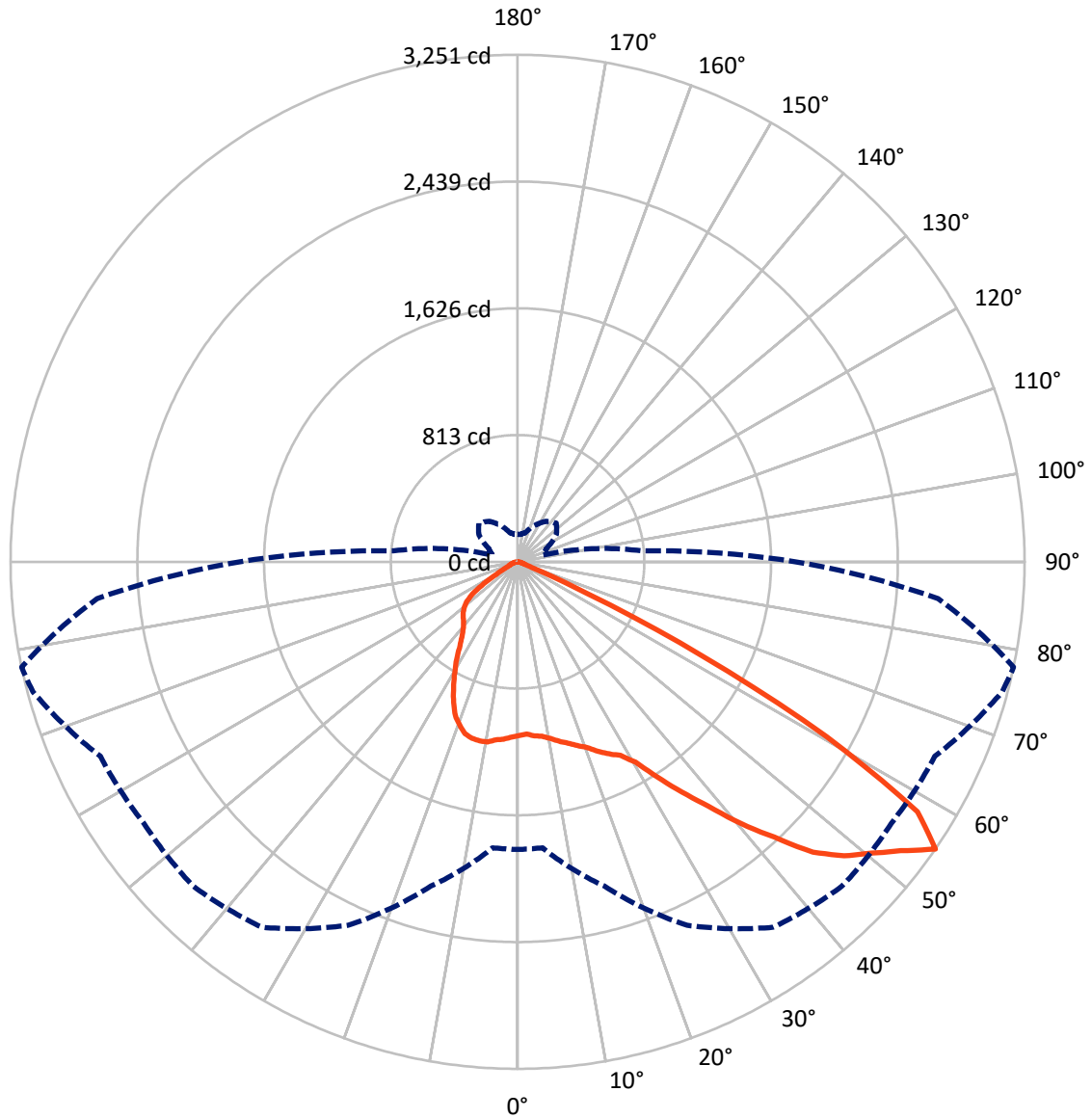
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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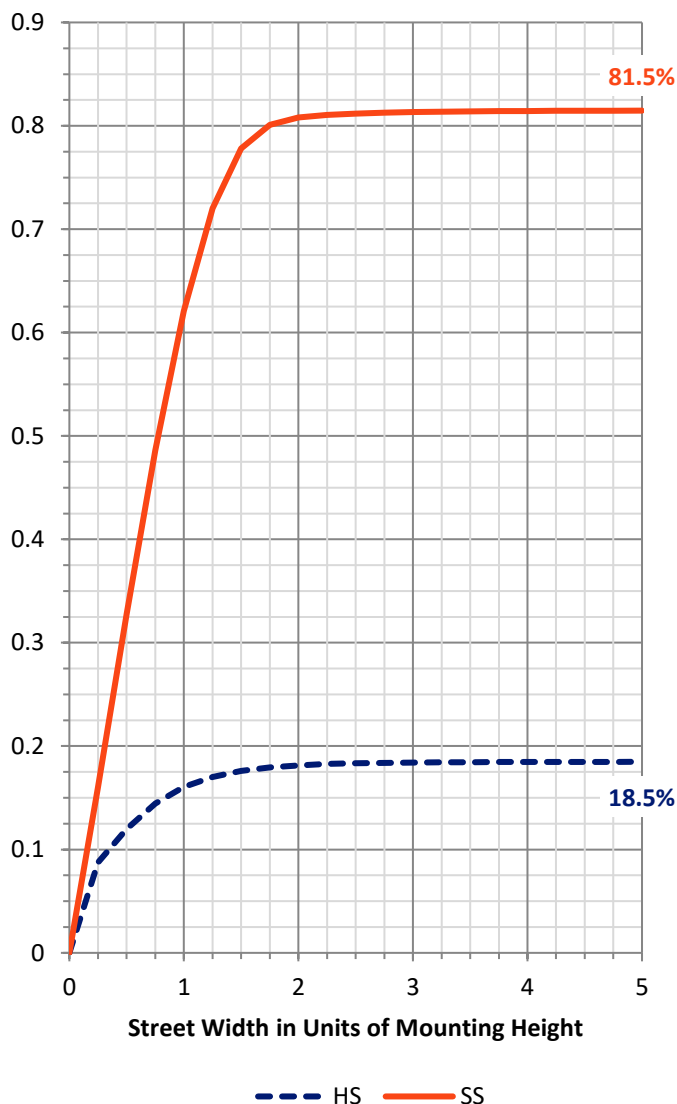
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	805.2	0.0	805.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3529.8	0.0	3529.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	4335.0	0.0	4335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	2.3
10°-20°	263.0	6.1
20°-30°	461.0	10.6
30°-40°	760.2	17.5
40°-50°	1106.1	25.5
50°-60°	1253.4	28.9
60°-70°	358.4	8.3
70°-80°	27.8	0.6
80°-90°	5.8	0.1
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°	4335.0	100.0
0°-180°	4335.0	100.0

Coefficient of Utilization

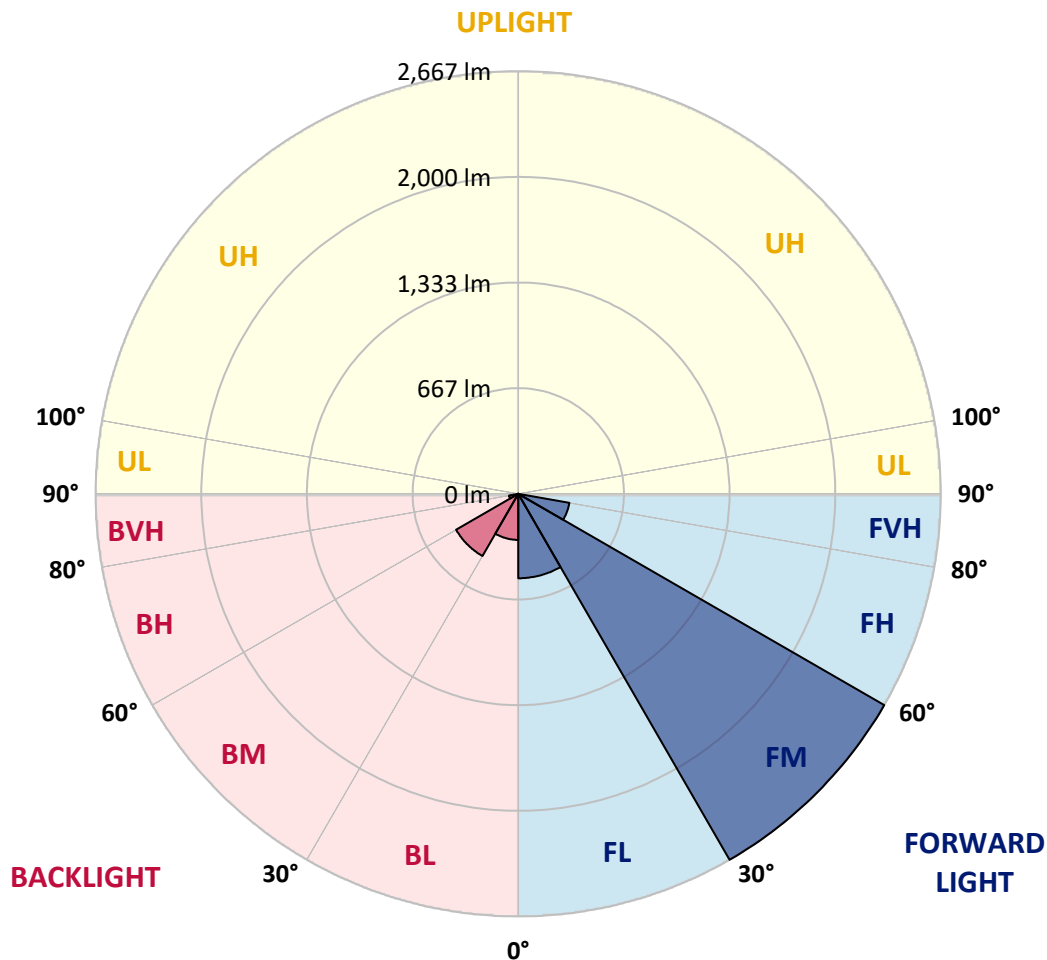


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.9	12.3			
FM (30°-60°)	2666.7	61.5			
FH (60°-80°)	327.4	7.6			G0/660
FVH (80°-90°)	2.8	0.1			G0/10
BL (0°-30°)	290.5	6.7	B1/500		
BM (30°-60°)	452.9	10.4	B1/1000		
BH (60°-80°)	58.8	1.4	B0/110		G0/110
BVH (80°-90°)	3.0	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°	55°	65°	75°	78°	85°
0°	1114.5	1114.5	1114.5	1114.5	1114.5	1114.5	1114.5	1114.5	1114.5	1114.5	1114.5
2.5°	1047.9	1058.0	1059.5	1071.9	1071.1	1092.1	1098.3	1099.0	1113.0	1106.0	1123.8
5°	1018.4	1013.0	1010.7	1032.4	1038.6	1057.2	1072.7	1082.0	1110.7	1120.7	1139.3
7.5°	992.1	992.1	993.6	1013.0	1010.7	1034.7	1051.0	1079.7	1121.5	1130.0	1152.5
10°	966.5	957.2	968.8	989.0	1006.0	1016.9	1051.0	1078.1	1126.9	1151.7	1182.7
12.5°	953.3	958.0	959.5	974.2	992.8	1025.4	1044.0	1089.0	1165.7	1180.4	1213.7
15°	1036.3	1026.9	1004.5	991.3	1006.8	1022.3	1068.8	1114.5	1185.8	1206.8	1244.0
17.5°	1132.4	1124.6	1106.0	1070.4	1035.5	1064.2	1100.6	1142.4	1207.5	1238.5	1293.6
20°	1257.9	1245.5	1226.9	1157.2	1126.9	1095.9	1134.7	1184.3	1243.2	1271.1	1327.7
22.5°	1407.5	1407.5	1365.6	1281.2	1218.4	1188.9	1205.2	1233.9	1282.7	1320.7	1376.5
25°	1563.3	1558.6	1520.7	1433.1	1326.9	1292.0	1310.6	1330.8	1343.9	1364.9	1402.1
27.5°	1741.6	1714.4	1666.4	1569.5	1475.7	1408.3	1428.4	1410.6	1394.3	1405.2	1458.7
30°	1862.5	1879.5	1818.3	1725.3	1636.9	1561.7	1565.6	1550.1	1475.7	1491.2	1523.0
32.5°	1988.0	1998.9	1964.8	1913.6	1825.3	1737.7	1705.9	1692.7	1636.9	1643.9	1612.9
35°	2092.7	2113.6	2083.4	2060.9	2035.3	1964.8	1877.2	1919.8	1829.9	1812.9	1732.3
37.5°	2188.8	2182.6	2218.2	2195.0	2189.5	2139.9	2043.8	2052.3	1991.9	1988.0	1895.0
40°	2274.8	2276.3	2325.2	2336.0	2314.3	2226.0	2086.5	2153.9	2202.7	2207.4	2088.0
42.5°	2346.1	2367.0	2408.9	2496.5	2463.9	2316.6	2130.6	2204.3	2385.6	2414.3	2270.9
45°	2408.1	2450.7	2502.7	2580.9	2562.3	2445.3	2240.7	2308.1	2580.9	2656.1	2443.0
47.5°	2412.0	2467.8	2524.4	2640.6	2663.9	2514.3	2354.6	2472.4	2735.9	2817.3	2568.5
50°	2396.5	2425.9	2539.1	2665.4	2718.1	2626.7	2514.3	2610.4	2886.3	2937.5	2632.1
52.5°	2212.8	2235.3	2462.4	2688.7	2815.8	2753.8	2725.9	2802.6	3039.8	3077.7	2691.8
55°	1844.6	1840.8	2153.1	2571.6	2860.7	2942.1	2925.1	2952.2	3217.3	3251.4	2706.5
57.5°	1261.8	1332.3	1602.0	2141.5	2585.6	2897.9	2915.8	2870.8	3010.3	3023.5	2359.3
60°	680.5	710.0	927.0	1429.2	1968.6	2361.6	2408.1	2326.7	2315.9	2278.7	1684.2
62.5°	270.5	285.2	408.5	707.6	1072.7	1435.4	1535.4	1502.1	1430.8	1333.1	871.9
65°	128.7	138.0	203.1	330.9	475.9	598.3	698.3	729.3	537.9	484.4	287.5
67.5°	87.6	94.6	148.0	189.1	169.7	177.5	231.0	214.7	126.3	107.7	79.8
70°	66.7	71.3	118.6	128.7	76.0	53.5	59.7	55.8	51.9	52.7	51.9
72.5°	47.3	51.2	86.8	76.0	33.3	24.8	31.8	38.0	38.0	38.0	37.2
75°	28.7	32.6	50.4	29.5	13.2	13.2	20.2	25.6	27.1	27.9	26.4
77.5°	14.7	18.6	17.1	8.5	8.5	10.1	14.7	17.8	19.4	19.4	18.6
80°	3.1	3.1	3.1	4.7	8.5	10.9	14.7	16.3	18.6	18.6	17.1
82.5°	0.0	0.8	2.3	4.7	7.8	10.1	14.0	16.3	18.6	19.4	17.8
85°	0.0	0.8	1.6	3.1	5.4	6.2	5.4	4.7	4.7	4.7	4.7
87.5°	0.0	0.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6
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°	1114.5	1114.5	1114.5	1114.5	1114.5	1114.5	1114.5	1114.5	1114.5	1114.5	1114.5
2.5°	1125.4	1127.7	1123.8	1123.1	1120.0	1129.3	1106.8	1101.4	1115.3	1102.1	1105.2
5°	1140.1	1145.5	1138.6	1126.9	1109.9	1083.5	1061.1	1031.6	1017.6	1007.6	1006.0
7.5°	1151.0	1154.8	1147.9	1110.7	1059.5	992.8	943.2	906.8	878.1	869.6	855.7
10°	1195.1	1195.9	1161.0	1078.9	978.9	891.3	815.4	759.6	730.9	713.1	705.3
12.5°	1224.6	1223.0	1152.5	1016.1	882.8	766.5	679.7	612.3	585.9	577.4	572.0
15°	1261.8	1253.3	1132.4	951.8	758.8	633.2	554.9	508.4	506.1	500.7	506.1
17.5°	1291.2	1267.2	1102.9	834.7	640.2	521.6	470.5	473.6	479.8	485.2	486.0
20°	1339.3	1289.7	1035.5	732.4	530.1	447.2	446.4	460.4	475.9	482.1	488.3
22.5°	1375.7	1299.0	963.4	623.1	440.2	417.0	430.2	451.1	462.7	468.9	478.2
25°	1388.9	1273.4	867.3	513.9	396.8	403.0	423.2	437.1	451.9	458.8	455.0
27.5°	1402.1	1260.2	752.6	423.2	373.6	393.7	410.8	424.7	429.4	438.7	444.9
30°	1433.9	1214.5	649.5	365.8	362.0	387.5	399.9	404.6	417.0	422.4	422.4
32.5°	1459.4	1196.7	540.2	338.7	360.4	390.6	392.2	392.2	393.7	389.9	388.3
35°	1512.1	1135.5	442.6	322.4	359.6	391.4	395.3	382.1	346.5	332.5	328.6
37.5°	1577.2	1095.9	370.5	318.5	365.1	400.7	406.9	357.3	310.8	288.3	284.4
40°	1656.3	1068.0	323.2	317.0	377.5	422.4	403.8	337.9	277.5	244.9	243.4
42.5°	1748.5	1042.5	291.4	316.2	393.0	444.9	400.7	321.6	243.4	221.7	224.8
45°	1822.2	1028.5	269.7	310.8	398.4	458.1	403.0	293.0	229.4	215.5	217.0
47.5°	1879.5	999.0	251.9	301.5	397.6	462.7	382.1	281.3	222.4	226.3	230.2
50°	1881.1	959.5	229.4	281.3	386.0	454.2	358.1	270.5	220.9	237.2	244.9
52.5°	1860.1	903.7	205.4	252.7	358.9	424.7	336.4	265.8	213.9	212.4	221.7
55°	1785.7	799.1	165.1	204.6	303.0	350.3	317.0	257.3	193.0	175.2	176.7
57.5°	1443.2	572.8	121.7	146.5	214.7	256.5	286.0	253.4	173.6	148.8	149.6
60°	893.6	324.7	89.1	100.0	132.5	155.8	231.7	235.6	155.0	125.6	124.0
62.5°	458.8	160.4	69.0	70.5	81.4	91.5	158.9	197.6	140.3	119.4	119.4
65°	153.5	79.1	60.5	54.3	54.3	56.6	96.1	137.2	118.6	100.0	100.0
67.5°	65.9	58.9	52.7	47.3	43.4	41.1	54.3	79.8	88.4	76.0	72.9
70°	51.2	49.6	45.7	39.5	34.1	31.0	31.8	41.1	50.4	48.8	47.3
72.5°	38.0	38.0	36.4	31.0	26.4	22.5	20.9	21.7	24.0	24.8	25.6
75°	26.4	27.1	27.1	24.0	19.4	16.3	14.0	11.6	9.3	7.8	7.0
77.5°	17.8	18.6	20.2	17.8	14.7	10.9	8.5	6.2	3.9	1.6	1.6
80°	15.5	17.8	19.4	17.8	15.5	11.6	8.5	4.7	2.3	0.0	0.0
82.5°	16.3	17.8	20.2	17.1	14.7	10.9	8.5	5.4	2.3	0.8	0.0
85°	3.9	3.9	4.7	5.4	7.0	7.8	6.2	3.9	2.3	0.8	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	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)