

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: P647903

Luminaire Tested: **GALN-SA4A-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10399.8 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

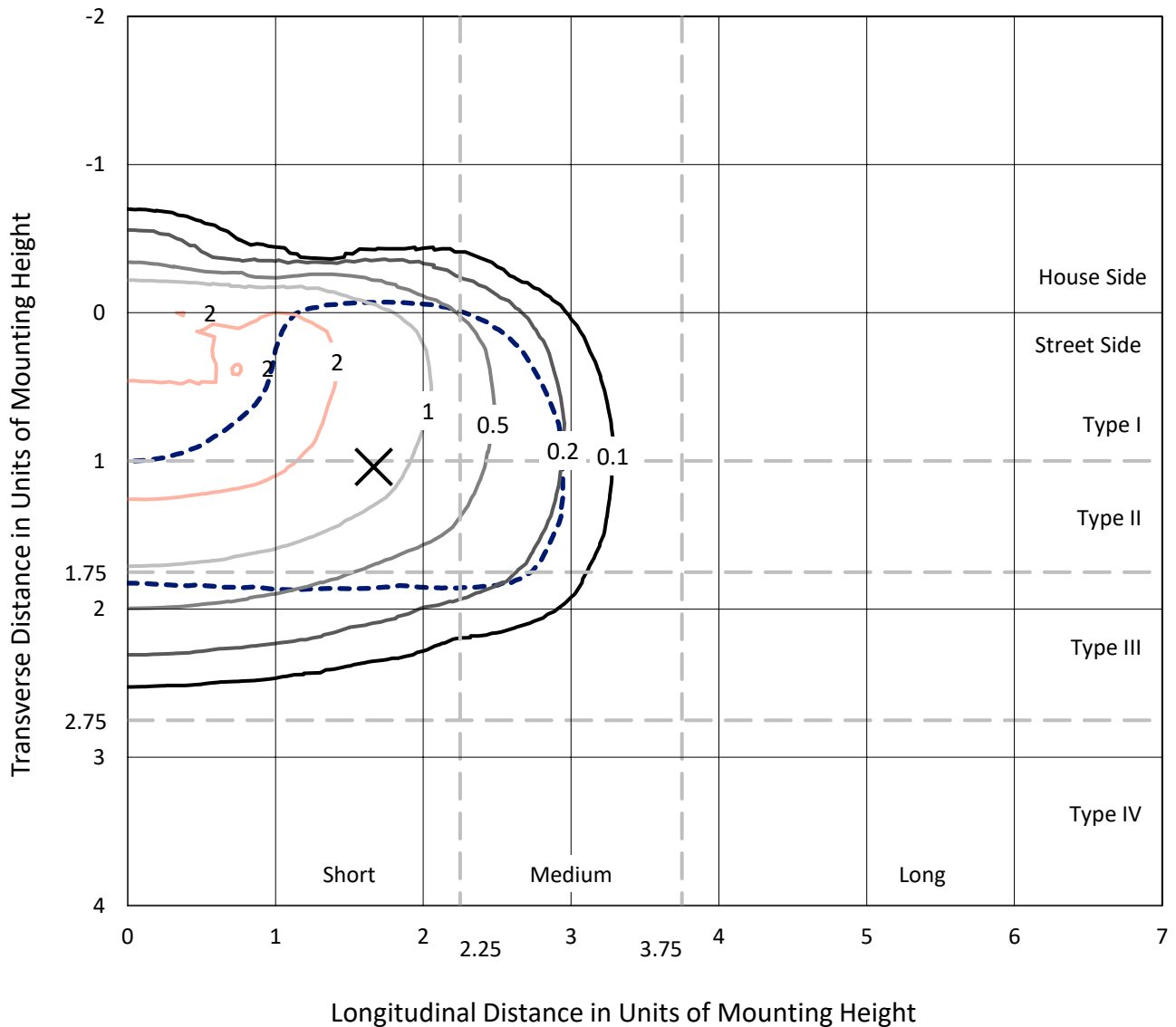
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

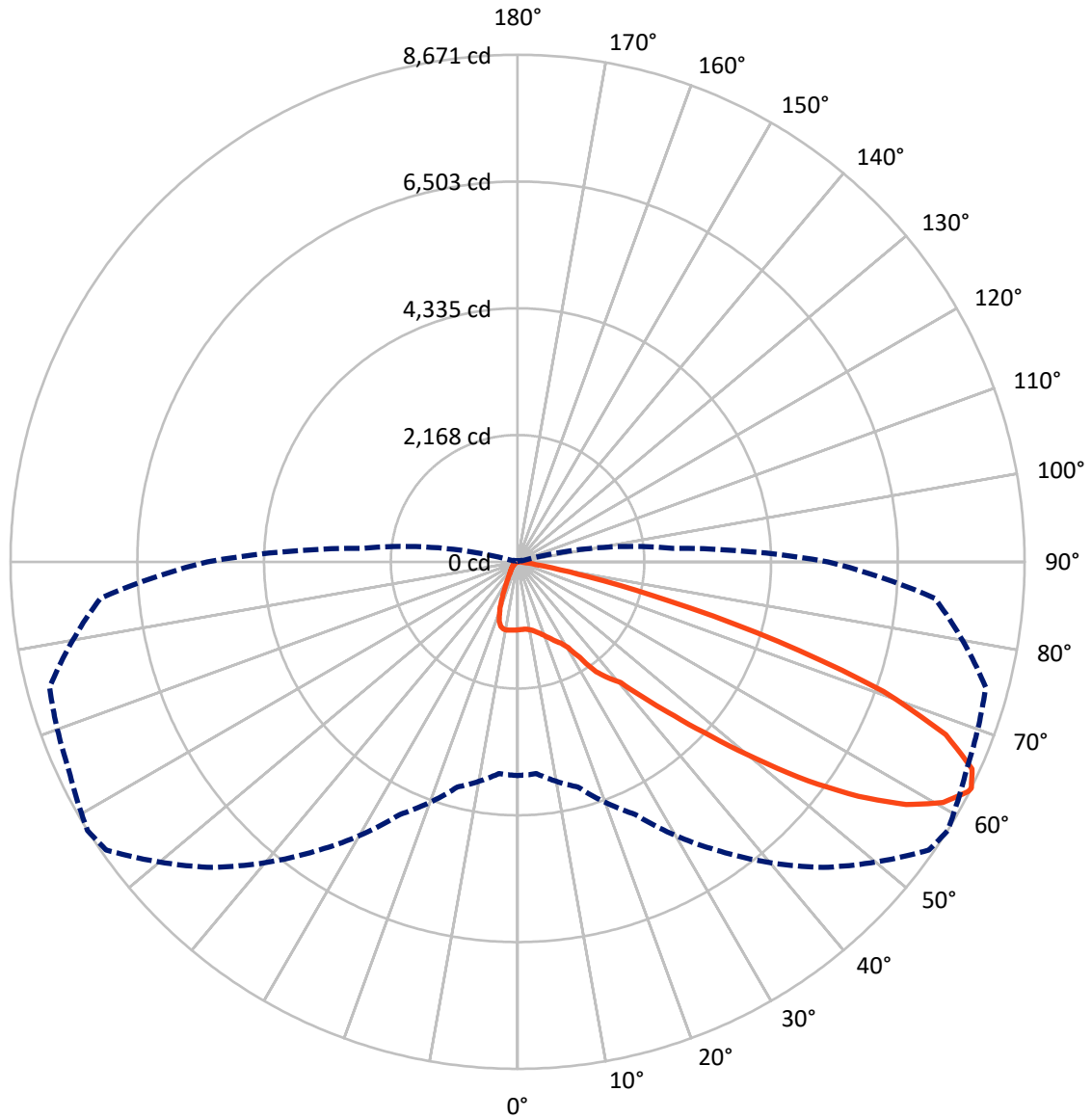
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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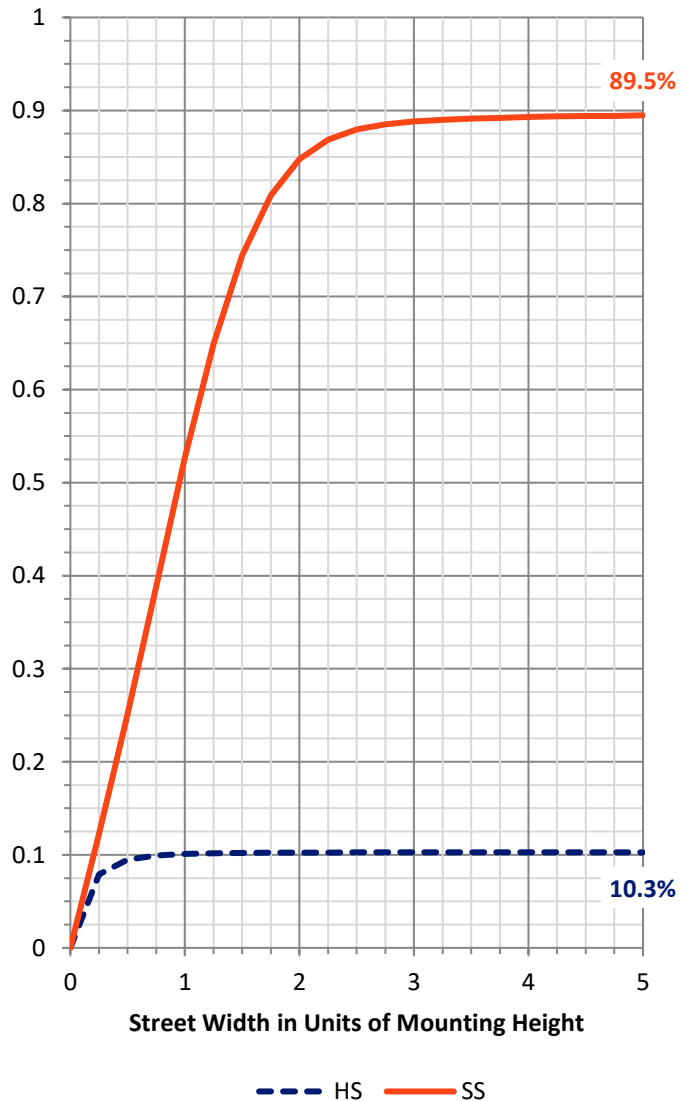
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1076.8	0.0	1076.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9323.0	0.0	9323.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	10399.8	0.0	10399.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	1.0
10°-20°	296.9	2.9
20°-30°	515.2	5.0
30°-40°	946.8	9.1
40°-50°	1782.3	17.1
50°-60°	3048.4	29.3
60°-70°	2918.9	28.1
70°-80°	744.3	7.2
80°-90°	38.1	0.4
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°	10399.8	100.0
0°-180°	10399.8	100.0

Coefficient of Utilization

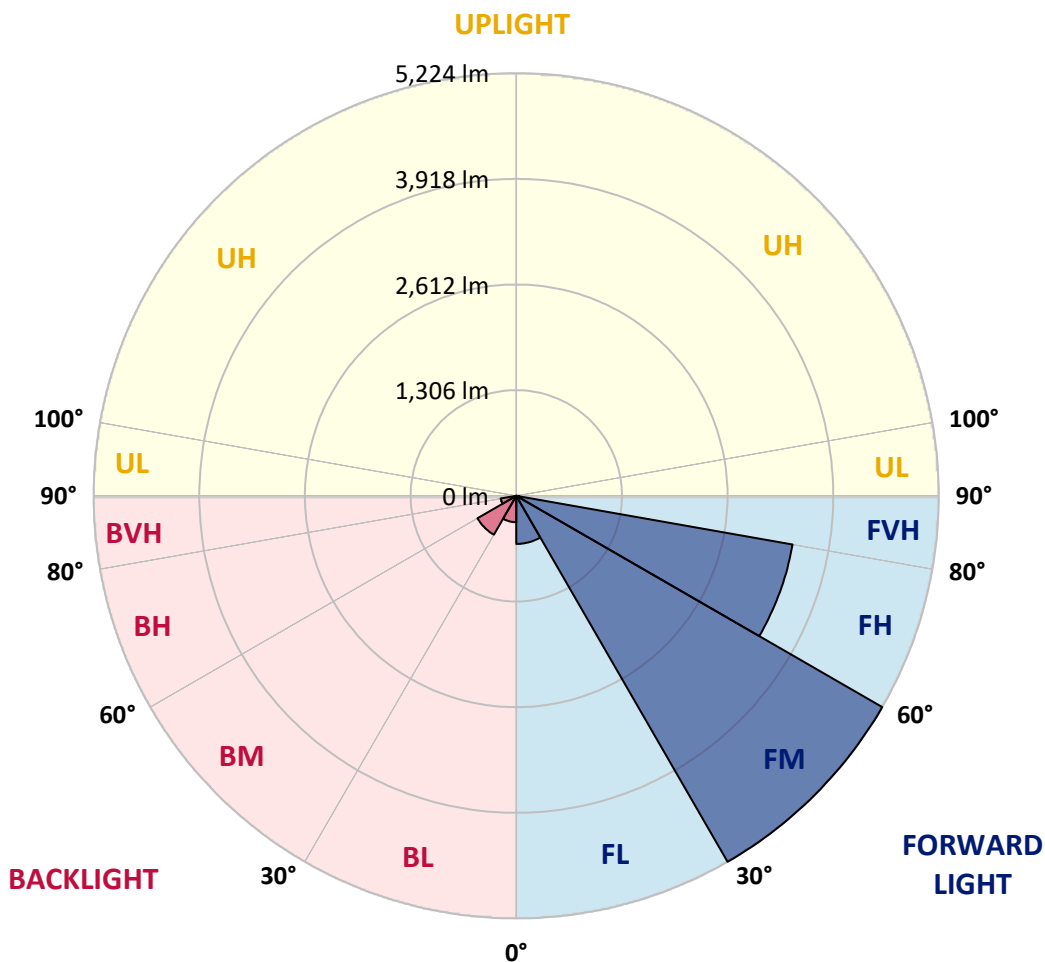


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.5	5.7			
FM (30°-60°)	5223.6	50.2			
FH (60°-80°)	3468.3	33.3			G2/5000
FVH (80°-90°)	36.6	0.4			G1/100
BL (0°-30°)	326.6	3.1	B1/500		
BM (30°-60°)	553.9	5.3	B1/1000		
BH (60°-80°)	194.9	1.9	B1/500		G1/500
BVH (80°-90°)	1.5	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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3
2.5°	1135.4	1139.3	1143.2	1144.7	1150.2	1155.7	1159.6	1158.8	1165.1	1168.2	1168.2
5°	1089.9	1089.9	1100.1	1109.5	1125.2	1140.8	1155.7	1158.8	1170.6	1181.5	1185.5
7.5°	1051.6	1053.9	1061.7	1079.0	1100.1	1127.5	1157.3	1164.3	1184.7	1209.0	1219.1
10°	1033.6	1035.1	1045.3	1063.3	1089.9	1127.5	1169.0	1182.3	1213.6	1252.0	1266.1
12.5°	1029.6	1032.0	1042.2	1062.5	1093.1	1138.5	1194.9	1209.0	1254.4	1303.7	1324.8
15°	1036.7	1038.3	1048.4	1070.4	1104.0	1158.1	1229.3	1248.9	1302.9	1360.1	1387.5
17.5°	1061.7	1060.2	1067.2	1085.2	1122.8	1182.3	1270.8	1294.3	1357.7	1436.0	1454.0
20°	1168.2	1158.1	1151.8	1136.1	1151.0	1216.8	1320.9	1355.4	1433.7	1513.5	1526.1
22.5°	1397.7	1374.9	1330.3	1269.2	1222.3	1263.8	1381.2	1421.1	1522.2	1600.5	1600.5
25°	1689.7	1660.7	1616.1	1483.0	1367.9	1341.3	1449.3	1499.4	1618.5	1697.5	1671.7
27.5°	2055.3	2032.6	1945.8	1790.7	1614.5	1476.7	1528.4	1574.6	1703.8	1799.3	1745.3
30°	2352.8	2341.9	2270.6	2132.0	1937.9	1736.7	1675.6	1706.2	1817.3	1927.7	1872.2
32.5°	2604.2	2604.2	2531.4	2402.2	2220.5	2042.0	1925.4	1947.3	2053.7	2181.4	2078.0
35°	2880.6	2871.2	2812.5	2689.5	2485.9	2328.6	2280.8	2310.6	2406.9	2501.6	2247.1
37.5°	3171.1	3167.9	3106.9	2987.8	2821.9	2623.8	2511.8	2519.6	2568.9	2626.9	2445.2
40°	3486.6	3491.3	3411.5	3337.9	3181.3	2978.5	2763.9	2714.6	2760.8	2924.4	2810.9
42.5°	3859.3	3848.4	3813.9	3713.7	3587.6	3466.3	3208.7	3190.6	3231.4	3406.8	3283.8
45°	4292.3	4308.0	4248.5	4192.9	4108.3	4007.3	3792.0	3760.7	3805.3	4077.8	3903.2
47.5°	4726.1	4711.2	4749.6	4739.4	4784.8	4709.7	4519.4	4455.2	4562.5	4820.9	4564.0
50°	5056.5	5073.0	5152.8	5269.5	5464.5	5506.8	5324.3	5302.4	5350.2	5516.2	5155.2
52.5°	5271.1	5325.9	5451.2	5751.1	6102.5	6375.8	6237.2	6225.5	6205.9	6250.5	5720.5
55°	5411.2	5466.8	5630.5	6072.1	6677.3	7121.2	7128.3	7078.2	6949.0	6916.9	6249.0
57.5°	5325.1	5336.1	5569.4	6159.7	6995.9	7652.9	7883.1	7833.0	7594.2	7472.8	6715.6
60°	4786.4	4809.1	5134.1	5827.8	6857.4	7826.7	8383.4	8360.7	8099.2	7962.2	7078.9
62.5°	3831.9	3897.7	4232.0	5005.6	6212.9	7533.9	8586.2	8650.4	8446.8	8258.1	7193.3
63°	3656.5	3635.4	3988.5	4766.0	6042.3	7389.0	8589.4	8670.8	8462.5	8286.3	7161.9
65°	2706.8	2770.2	2999.6	3758.3	5028.3	6714.9	8396.0	8540.0	8404.6	8161.8	6815.1
67.5°	1519.8	1516.7	1770.4	2459.3	3519.5	5267.2	7591.8	7896.4	7868.2	7324.0	5649.3
70°	743.8	755.6	859.7	1274.7	2041.2	3633.8	6308.5	6637.3	6647.5	5752.6	3906.3
72.5°	336.7	342.2	416.6	620.9	1049.2	1934.8	4347.1	4661.1	4603.2	3665.9	2157.1
75°	177.7	189.5	229.4	312.4	505.8	797.9	2364.6	2668.4	2547.0	1674.8	794.0
77.5°	131.5	135.5	155.8	198.9	270.9	310.9	1020.2	1213.6	1136.9	606.0	263.1
80°	96.3	99.4	115.9	140.9	170.7	158.2	384.5	440.8	395.4	205.9	80.6
82.5°	58.7	59.5	84.6	104.9	107.3	88.5	126.8	136.2	142.5	115.9	43.8
85°	21.1	26.6	57.2	76.0	63.4	44.6	53.2	58.7	64.2	73.6	25.8
87.5°	2.3	3.1	27.4	36.8	18.0	16.4	19.6	21.9	23.5	27.4	12.5
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°	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3
2.5°	1171.4	1174.5	1172.2	1168.2	1167.5	1165.1	1160.4	1160.4	1160.4	1162.0	1160.4
5°	1188.6	1190.9	1185.5	1177.6	1169.0	1158.1	1146.3	1139.3	1138.5	1136.9	1133.0
7.5°	1221.5	1224.6	1212.1	1193.3	1169.8	1143.2	1118.1	1094.6	1083.7	1075.1	1075.1
10°	1269.2	1272.4	1247.3	1213.6	1166.7	1112.6	1053.1	999.1	956.8	937.3	932.6
12.5°	1326.4	1328.0	1286.5	1227.7	1150.2	1046.1	919.2	801.0	718.8	681.2	677.3
15°	1389.0	1378.1	1323.3	1233.2	1103.2	909.1	689.8	545.0	459.6	434.6	444.0
17.5°	1452.5	1432.1	1351.5	1224.6	997.5	689.8	463.5	371.9	345.3	338.3	338.3
20°	1512.0	1483.8	1371.8	1187.0	814.3	475.3	343.7	321.8	317.1	312.4	313.2
22.5°	1571.5	1528.4	1389.8	1103.2	606.8	339.8	307.7	300.7	294.4	288.1	287.4
25°	1629.4	1569.9	1396.9	948.2	413.4	292.1	281.1	271.7	259.2	252.1	250.6
27.5°	1689.7	1620.0	1392.2	752.5	301.5	261.5	250.6	237.2	222.4	209.8	209.8
30°	1805.6	1715.6	1375.7	541.1	253.7	230.2	216.1	195.0	178.5	166.0	165.2
32.5°	1963.8	1840.0	1319.4	380.5	225.5	202.8	181.7	158.2	140.9	131.5	131.5
35°	2104.6	1965.3	1213.6	280.3	202.8	176.2	150.3	127.6	114.3	108.1	105.7
37.5°	2319.2	2148.5	1068.0	227.9	180.9	152.7	126.1	104.9	94.0	89.3	89.3
40°	2641.0	2372.4	889.5	199.7	159.7	130.0	104.9	88.5	79.9	74.4	74.4
42.5°	3040.3	2646.5	708.6	179.3	140.2	112.0	87.7	75.2	67.3	63.4	62.6
45°	3543.0	2935.4	545.8	160.5	124.5	95.5	74.4	63.4	55.6	53.2	54.0
47.5°	4067.6	3189.9	422.8	144.1	108.1	80.6	63.4	54.8	49.3	46.2	46.2
50°	4515.5	3365.3	321.0	125.3	95.5	68.1	55.6	49.3	44.6	43.1	42.3
52.5°	4889.8	3416.2	245.9	108.8	83.8	58.7	49.3	44.6	40.7	38.4	38.4
55°	5208.4	3371.5	192.6	91.6	70.5	50.9	43.8	39.9	35.2	32.9	32.1
57.5°	5394.8	3228.2	147.2	76.0	57.2	42.3	38.4	33.7	28.2	24.3	24.3
60°	5488.8	3020.0	112.8	62.6	43.8	33.7	31.3	25.1	19.6	16.4	15.7
62.5°	5376.0	2743.6	85.3	49.3	32.9	25.1	21.1	18.0	12.5	9.4	9.4
63°	5306.3	2663.7	82.2	47.0	30.5	23.5	19.6	16.4	11.0	8.6	7.8
65°	4837.3	2315.3	67.3	37.6	24.3	16.4	13.3	11.7	7.8	3.9	3.1
67.5°	3841.3	1771.1	53.2	28.2	17.2	11.7	7.8	7.0	2.3	0.0	0.0
70°	2597.1	1144.0	41.5	20.4	11.7	7.0	3.9	3.1	0.8	0.0	0.0
72.5°	1354.6	586.5	32.1	14.9	7.0	4.7	2.3	0.8	0.0	0.0	0.0
75°	479.2	199.7	23.5	9.4	4.7	2.3	0.8	0.0	0.0	0.0	0.0
77.5°	144.9	74.4	14.9	7.0	3.1	1.6	0.0	0.0	0.0	0.0	0.0
80°	50.9	27.4	8.6	4.7	2.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	25.1	13.3	5.5	3.9	2.3	0.8	0.0	0.0	0.0	0.0	0.0
85°	14.1	8.6	4.7	3.9	2.3	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	6.3	4.7	3.9	3.1	1.6	0.8	0.0	0.0	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)