

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: P650712

Luminaire Tested: **GALN-SA1C-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6122.5 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

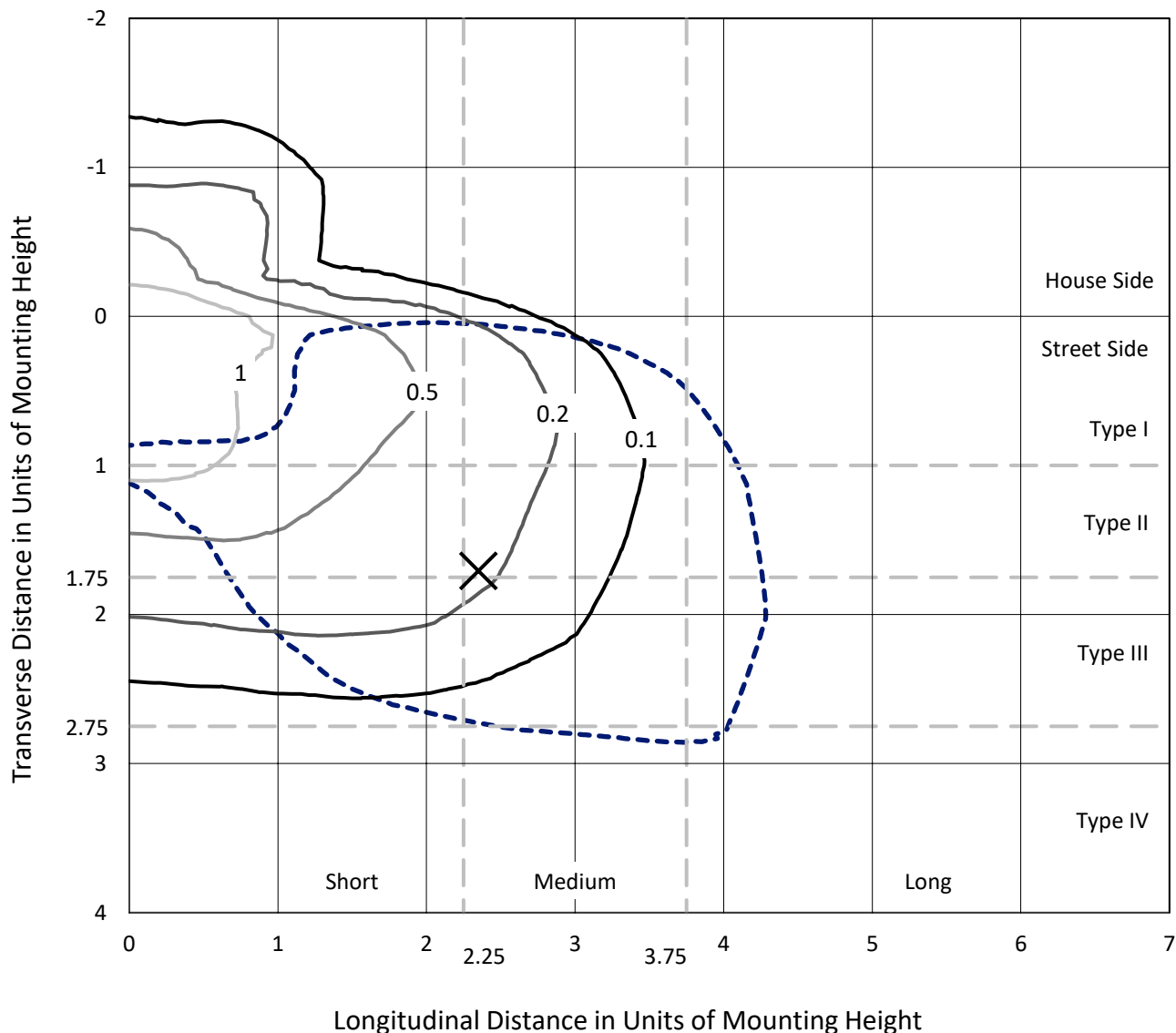
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650712
 CATALOG NUMBER: GALN-SA1C-840-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

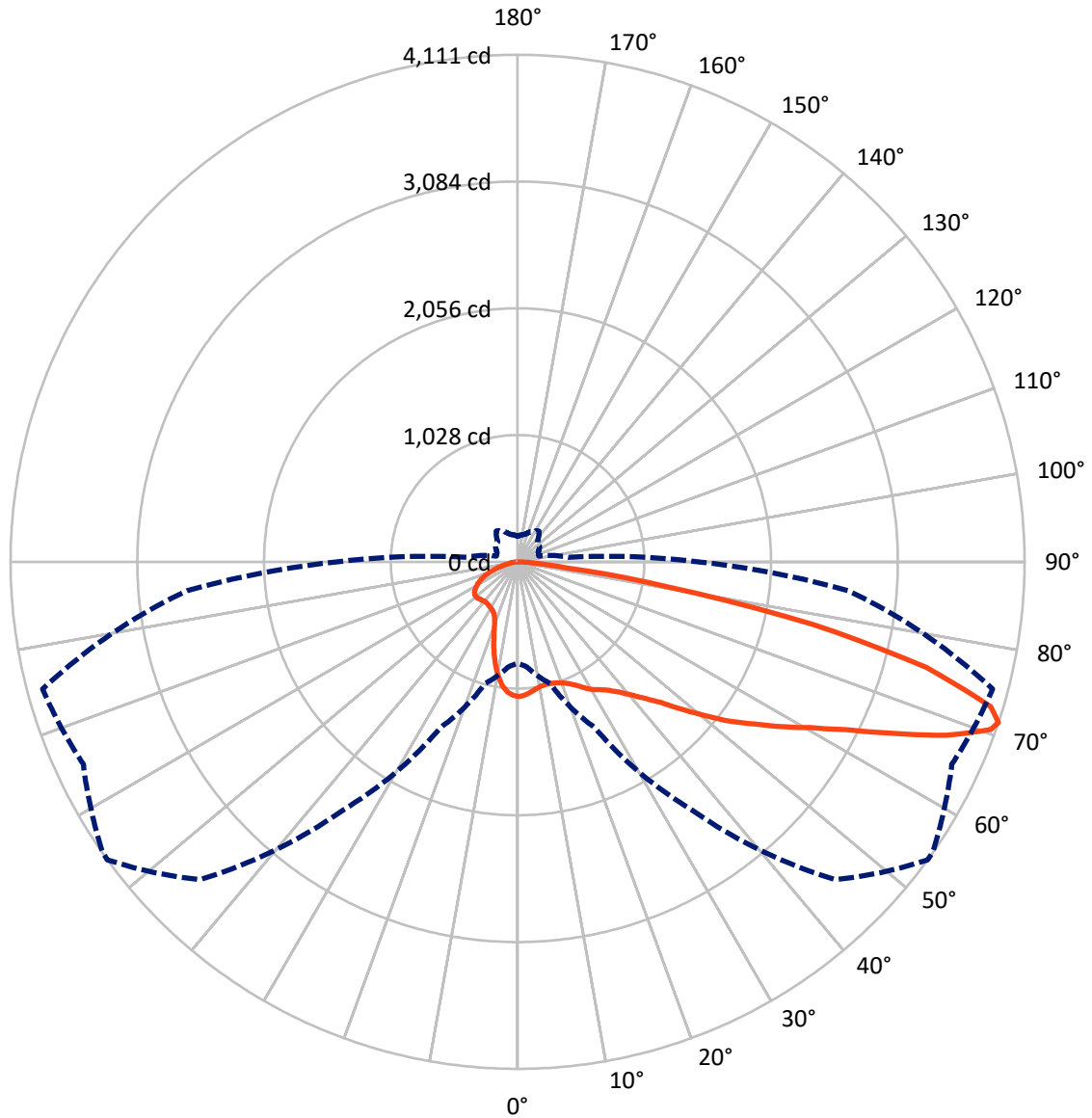
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P650712
CATALOG NUMBER: GALN-SA1C-840-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P650712
 CATALOG NUMBER: GALN-SA1C-840-U-T3R

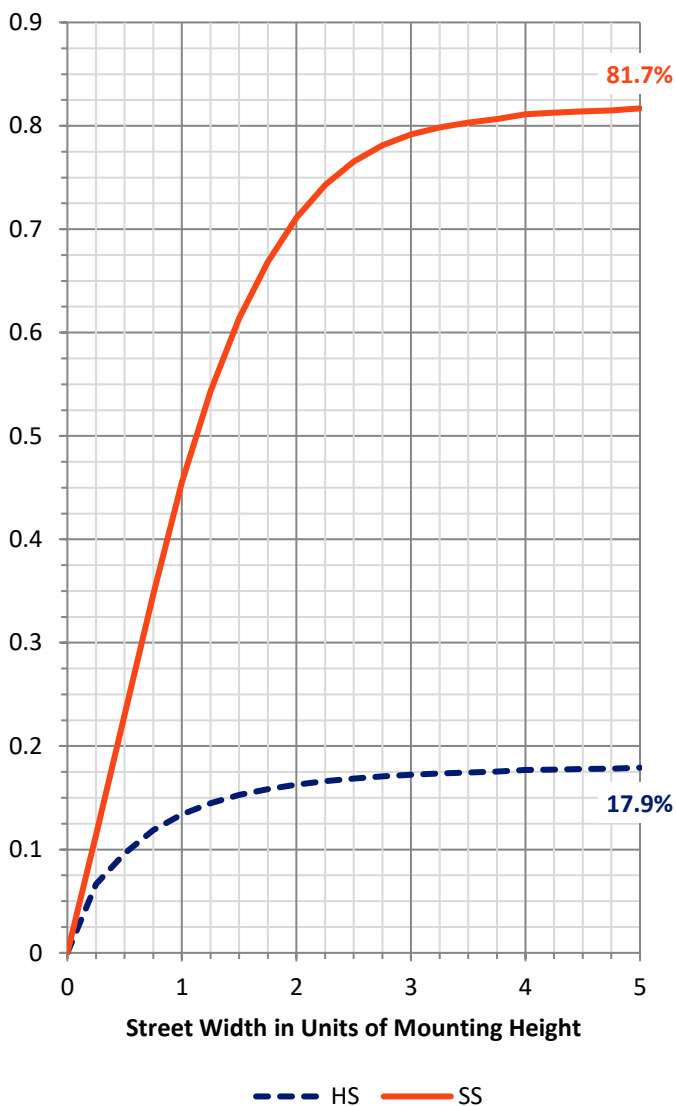
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1105.4	0.0	1105.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5017.1	0.0	5017.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	6122.5	0.0	6122.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.6
10°-20°	257.0	4.2
20°-30°	428.0	7.0
30°-40°	632.8	10.3
40°-50°	891.4	14.6
50°-60°	1193.6	19.5
60°-70°	1504.4	24.6
70°-80°	1027.5	16.8
80°-90°	90.4	1.5
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°	6122.5	100.0
0°-180°	6122.5	100.0

Coefficient of Utilization

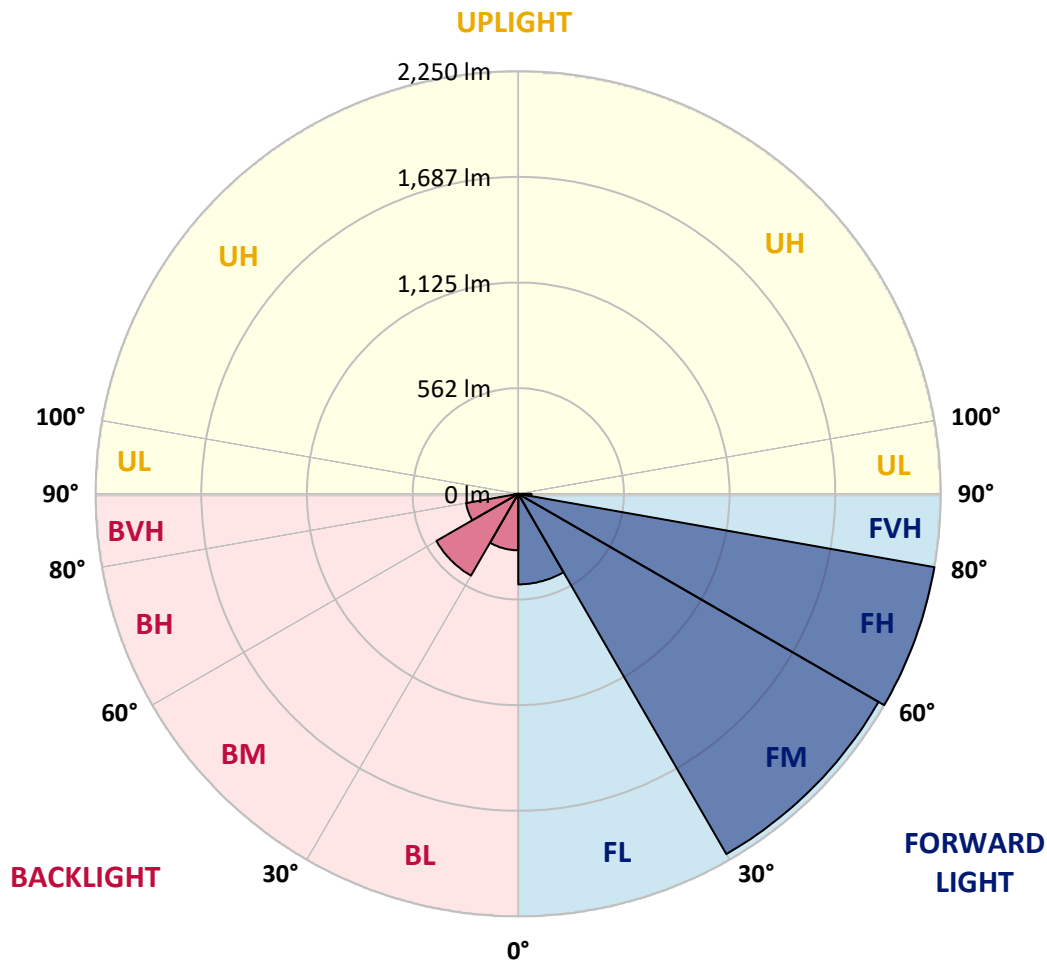


REPORT NUMBER: P650712
 CATALOG NUMBER: GALN-SA1C-840-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	481.9	7.9			
FM (30°-60°)	2214.9	36.2			
FH (60°-80°)	2249.6	36.7			G2/5000
FVH (80°-90°)	70.6	1.2			G1/100
BL (0°-30°)	300.4	4.9	B1/500		
BM (30°-60°)	502.9	8.2	B1/1000		
BH (60°-80°)	282.3	4.6	B1/500		G1/500
BVH (80°-90°)	19.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





REPORT NUMBER: P650712

CATALOG NUMBER: GALN-SA1C-840-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4
2.5°	1055.3	1060.2	1061.6	1064.9	1071.9	1077.5	1083.0	1082.5	1090.4	1093.6	1096.7
5°	1008.4	1009.7	1014.6	1021.2	1033.5	1049.0	1064.2	1064.5	1084.0	1099.6	1107.3
7.5°	974.0	978.3	981.5	988.5	1001.4	1018.3	1042.4	1044.4	1079.1	1109.9	1126.1
10°	951.4	956.4	960.1	968.7	981.5	1000.4	1026.5	1030.1	1075.5	1126.1	1154.5
12.5°	931.0	935.9	939.2	950.5	967.3	990.4	1019.9	1024.3	1076.8	1144.9	1185.6
15°	943.5	947.5	946.1	949.5	960.8	987.2	1022.6	1026.9	1081.8	1163.1	1216.3
17.5°	999.4	1002.7	991.8	979.3	974.0	993.5	1030.8	1035.4	1091.7	1181.9	1247.8
20°	1081.8	1090.7	1066.9	1038.8	1013.3	1015.9	1048.1	1053.0	1105.6	1200.8	1279.8
22.5°	1188.9	1195.5	1166.4	1120.1	1073.2	1049.0	1073.8	1076.8	1126.4	1225.3	1314.9
25°	1314.9	1318.9	1278.6	1219.0	1151.2	1105.6	1109.2	1114.5	1160.8	1253.1	1346.0
27.5°	1437.3	1449.8	1403.2	1330.5	1241.1	1165.1	1157.8	1161.2	1198.2	1268.6	1367.5
30°	1582.4	1581.5	1532.2	1447.9	1333.4	1229.9	1203.8	1203.1	1218.4	1276.2	1383.0
32.5°	1698.2	1711.8	1663.5	1571.6	1439.0	1297.1	1235.5	1234.3	1233.9	1289.4	1406.2
35°	1829.8	1831.8	1787.5	1694.9	1553.0	1381.3	1279.8	1273.3	1265.6	1317.8	1437.6
37.5°	1947.6	1956.8	1916.1	1812.3	1665.1	1469.1	1340.7	1336.4	1313.2	1367.1	1487.9
40°	2039.5	2046.4	2021.9	1923.1	1775.6	1563.6	1418.1	1410.2	1382.0	1447.9	1555.0
42.5°	2069.6	2083.8	2093.4	2044.8	1902.6	1675.7	1513.3	1503.5	1481.9	1570.2	1632.4
45°	2071.9	2094.4	2145.0	2147.3	2030.3	1810.0	1624.5	1617.5	1615.9	1727.0	1741.2
47.5°	2054.4	2077.2	2162.2	2208.1	2144.0	1945.6	1784.9	1773.9	1774.9	1920.8	1863.2
50°	2012.1	2039.2	2142.4	2247.2	2232.9	2086.4	1954.1	1950.5	1971.1	2142.0	1989.9
52.5°	1932.4	1965.1	2121.8	2271.6	2299.1	2207.8	2146.7	2136.4	2188.3	2382.1	2128.5
55°	1711.8	1761.1	2046.7	2285.2	2361.9	2323.9	2320.0	2338.5	2407.3	2644.0	2281.0
57.5°	1596.6	1633.7	1883.8	2287.5	2441.3	2458.8	2522.3	2527.0	2647.4	2922.1	2453.2
60°	1533.8	1566.6	1794.4	2272.3	2552.1	2625.9	2729.4	2745.9	2881.9	3223.5	2631.8
62.5°	1479.0	1507.1	1740.9	2219.7	2677.1	2873.5	2997.6	3005.5	3148.0	3556.2	2808.1
65°	1349.6	1381.7	1633.1	2167.2	2784.9	3183.1	3353.4	3344.2	3431.4	3843.2	2918.5
67.5°	1175.4	1216.0	1431.6	1985.6	2838.2	3521.4	3754.2	3742.7	3711.2	4031.4	2950.3
70°	952.8	974.6	1174.0	1671.7	2625.5	3699.0	4070.7	4058.5	3884.6	4056.1	2800.1
71°	819.8	853.9	1022.2	1484.9	2448.6	3644.8	4111.4	4108.1	3884.8	3987.7	2687.0
72.5°	639.9	660.8	809.5	1150.6	2081.1	3336.6	4010.9	4023.4	3800.6	3797.5	2453.9
75°	404.8	414.0	508.0	677.3	1141.9	2363.0	3423.9	3457.9	3374.6	3108.3	1824.9
77.5°	235.1	247.0	304.3	399.1	493.4	1282.5	2449.9	2486.9	2344.7	1711.4	747.1
80°	136.9	150.1	200.4	231.9	226.6	475.9	1247.5	1310.6	1015.3	432.3	209.7
82.5°	76.0	85.0	140.9	141.2	120.7	155.4	392.6	410.7	289.7	174.3	85.6
85°	55.3	62.5	90.9	82.3	57.9	66.8	136.6	143.2	117.1	73.4	27.8
87.5°	19.5	27.8	50.0	39.7	15.9	13.9	39.4	32.0	29.8	20.5	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650712
 CATALOG NUMBER: GALN-SA1C-840-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4
2.5°	1098.3	1098.9	1095.7	1089.7	1083.7	1076.1	1067.6	1060.9	1058.0	1057.6	1057.3
5°	1110.2	1111.9	1099.3	1080.8	1060.2	1035.1	1013.7	989.2	982.9	973.0	975.9
7.5°	1129.4	1128.4	1103.6	1064.2	1016.3	963.0	918.0	892.0	864.8	857.2	857.6
10°	1156.8	1150.6	1103.6	1030.5	950.5	871.4	808.6	768.9	747.4	729.6	722.9
12.5°	1185.9	1170.1	1093.0	983.2	865.8	768.9	701.5	647.9	633.9	619.4	619.7
15°	1213.7	1187.2	1072.2	916.8	774.6	659.4	594.0	561.9	557.6	559.3	558.9
17.5°	1238.9	1199.5	1040.4	842.7	668.0	565.5	530.8	533.1	544.7	553.0	554.0
20°	1264.3	1206.8	993.1	743.4	567.5	508.6	510.0	528.1	545.6	556.9	558.6
22.5°	1288.4	1210.1	937.5	647.6	494.8	484.5	504.0	523.5	540.7	551.6	553.3
25°	1304.3	1202.5	858.8	547.3	459.0	475.9	496.4	512.9	527.5	538.7	541.4
27.5°	1308.6	1178.0	761.3	466.3	442.5	467.6	486.5	498.7	510.0	520.6	522.5
30°	1306.3	1141.9	654.1	418.6	432.9	458.0	472.6	481.6	495.1	503.3	505.0
32.5°	1302.7	1099.9	542.4	393.3	425.0	449.1	457.7	465.7	465.3	462.0	464.3
35°	1304.0	1049.7	451.8	378.0	418.1	442.5	449.8	439.8	411.4	410.1	408.7
37.5°	1311.0	1000.0	385.9	367.4	414.4	441.5	445.5	399.8	374.7	363.1	360.1
40°	1328.8	942.2	342.6	359.4	414.0	449.1	426.0	379.6	331.4	308.9	307.2
42.5°	1352.6	885.3	316.1	354.5	418.1	460.7	418.1	351.2	298.6	285.4	283.4
45°	1388.0	820.1	301.6	352.2	423.9	465.0	415.4	330.3	285.4	274.8	274.8
47.5°	1428.0	758.0	293.7	350.5	431.6	462.0	391.9	323.8	279.1	280.5	286.7
50°	1467.7	704.1	287.7	346.9	438.2	460.4	382.3	323.4	280.8	297.6	308.9
52.5°	1513.6	666.1	280.5	340.9	438.2	449.8	379.3	330.0	285.4	290.4	295.4
55°	1569.2	654.1	271.2	328.1	430.3	423.3	377.7	339.7	288.7	277.1	279.1
57.5°	1642.6	673.3	262.2	311.8	412.1	395.9	377.0	342.3	281.1	271.5	269.5
60°	1728.0	711.4	259.6	295.4	387.3	372.4	373.1	334.7	270.5	260.6	262.2
62.5°	1787.8	734.2	257.9	282.7	360.1	346.6	363.5	325.4	265.9	257.3	258.9
65°	1787.8	706.4	242.7	263.6	325.1	315.5	351.9	313.9	260.0	250.0	248.3
67.5°	1720.0	625.4	219.6	234.8	286.4	280.1	335.6	300.0	251.0	243.4	239.4
70°	1543.4	474.2	190.5	201.1	237.4	243.0	314.9	281.1	236.2	226.9	220.9
71°	1465.7	413.1	178.3	183.8	218.6	226.9	304.9	273.2	229.5	216.3	205.7
72.5°	1315.9	347.9	159.7	162.1	186.9	201.8	284.1	257.9	217.0	198.1	186.2
75°	999.8	254.0	128.7	127.3	138.3	160.0	240.4	229.8	190.2	164.7	157.8
77.5°	431.9	138.3	96.2	97.2	93.9	121.4	189.1	197.5	163.1	134.0	127.7
80°	130.9	79.7	65.9	67.1	62.8	81.3	133.3	154.7	130.9	104.2	95.5
82.5°	67.1	47.6	45.0	44.3	40.0	46.0	80.7	105.8	93.6	65.2	57.5
85°	29.1	25.5	22.1	21.5	18.8	16.6	28.8	52.9	49.6	36.4	34.7
87.5°	7.3	6.6	4.3	4.0	2.4	0.3	0.0	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)