

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: P648297

Luminaire Tested: **GALN-SA2B-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P648297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8966.1 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

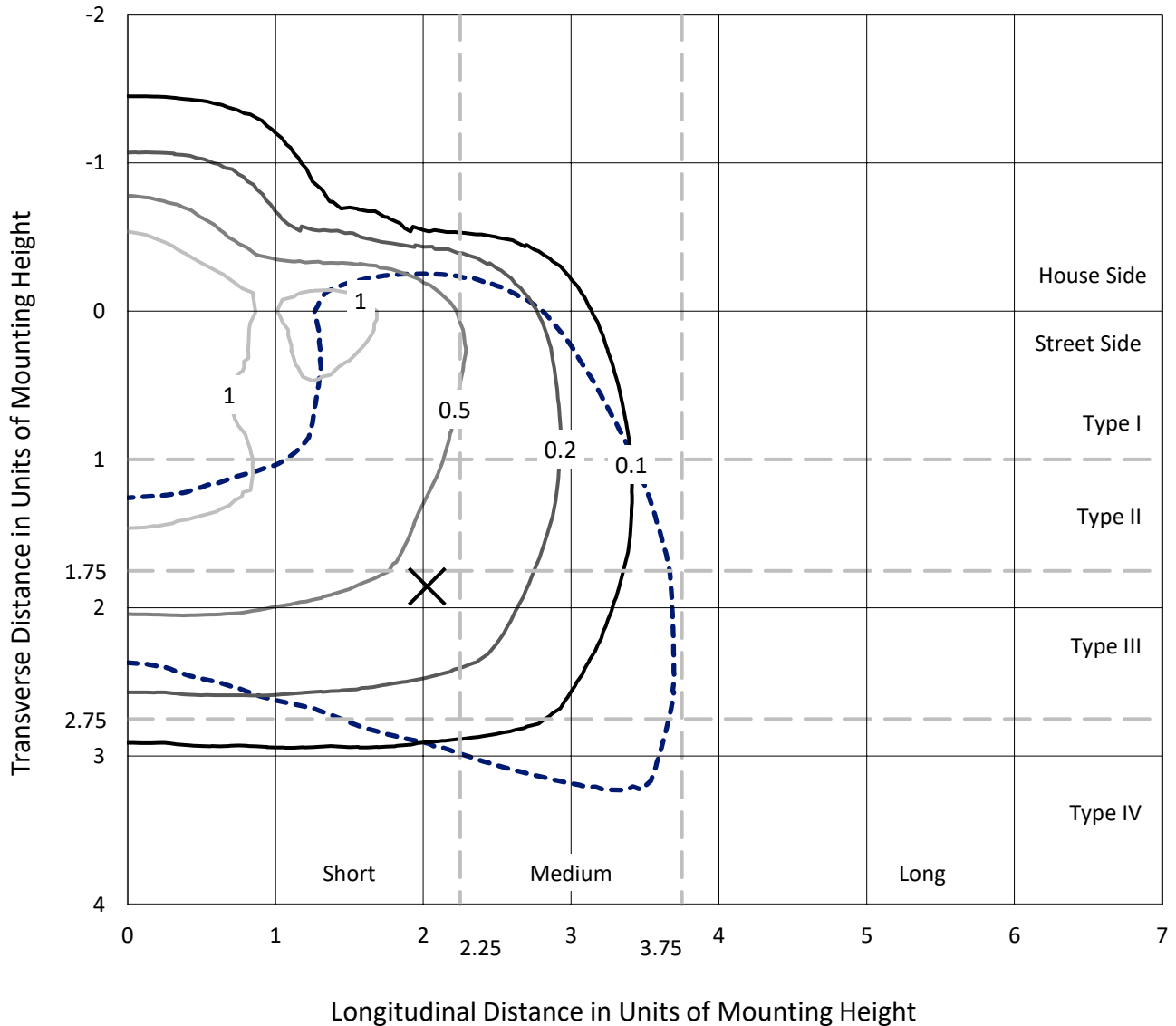
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648297
 CATALOG NUMBER: GALN-SA2B-835-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

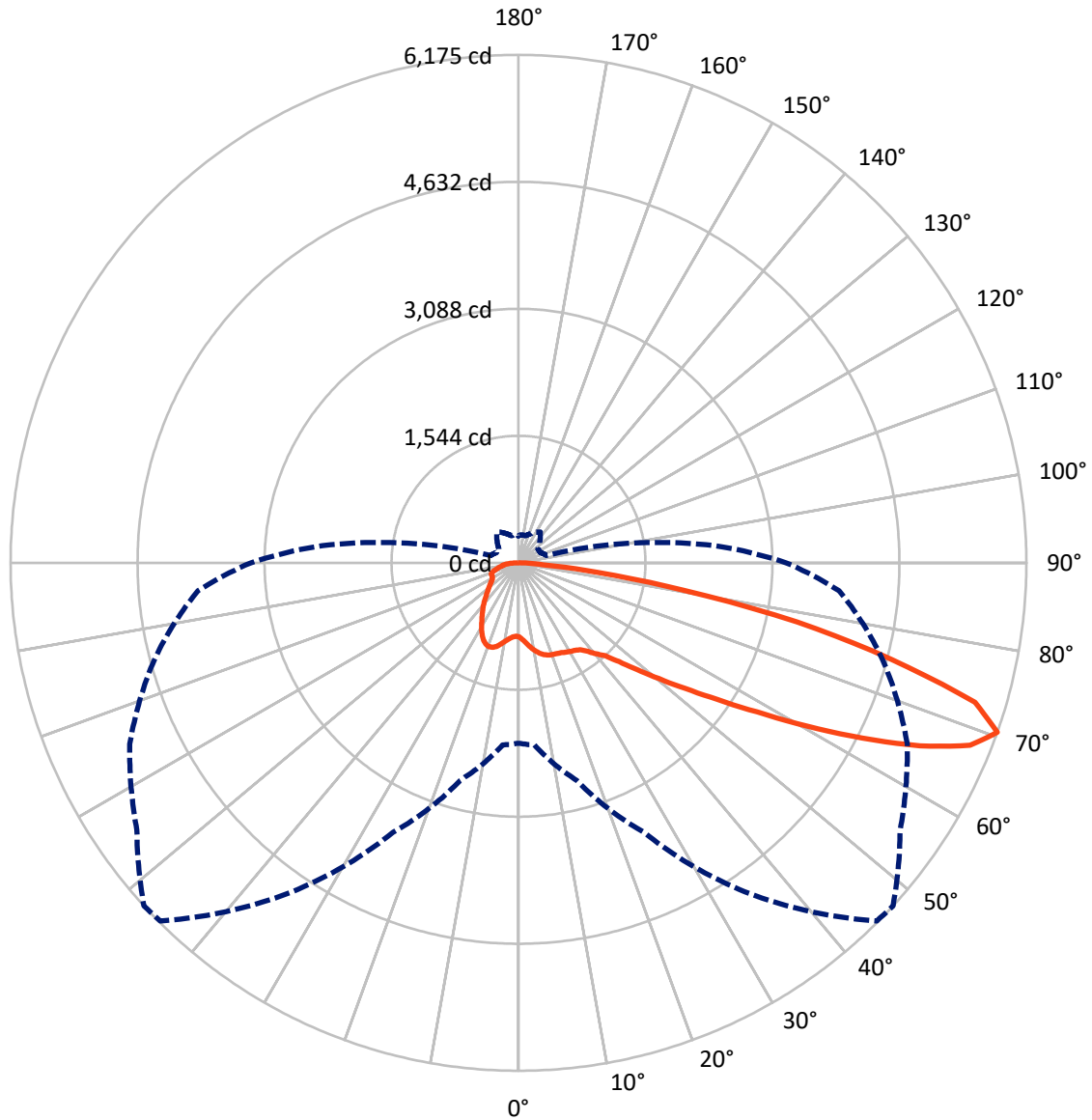
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P648297
CATALOG NUMBER: GALN-SA2B-835-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: GALN-SA2B-835-U-T4W

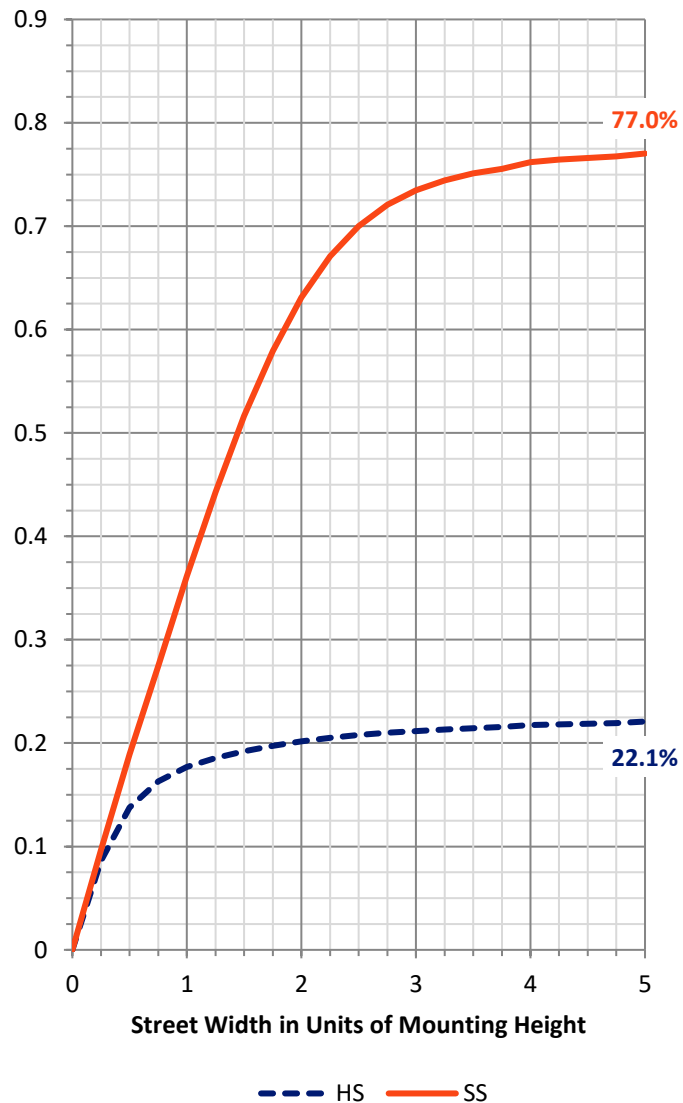
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2030.1	0.0	2030.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6936.0	0.0	6936.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	8966.1	0.0	8966.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	1.0
10°-20°	310.2	3.5
20°-30°	515.8	5.8
30°-40°	731.1	8.2
40°-50°	1079.2	12.0
50°-60°	1869.3	20.8
60°-70°	2640.4	29.4
70°-80°	1517.9	16.9
80°-90°	209.4	2.3
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°	8966.1	100.0
0°-180°	8966.1	100.0

Coefficient of Utilization

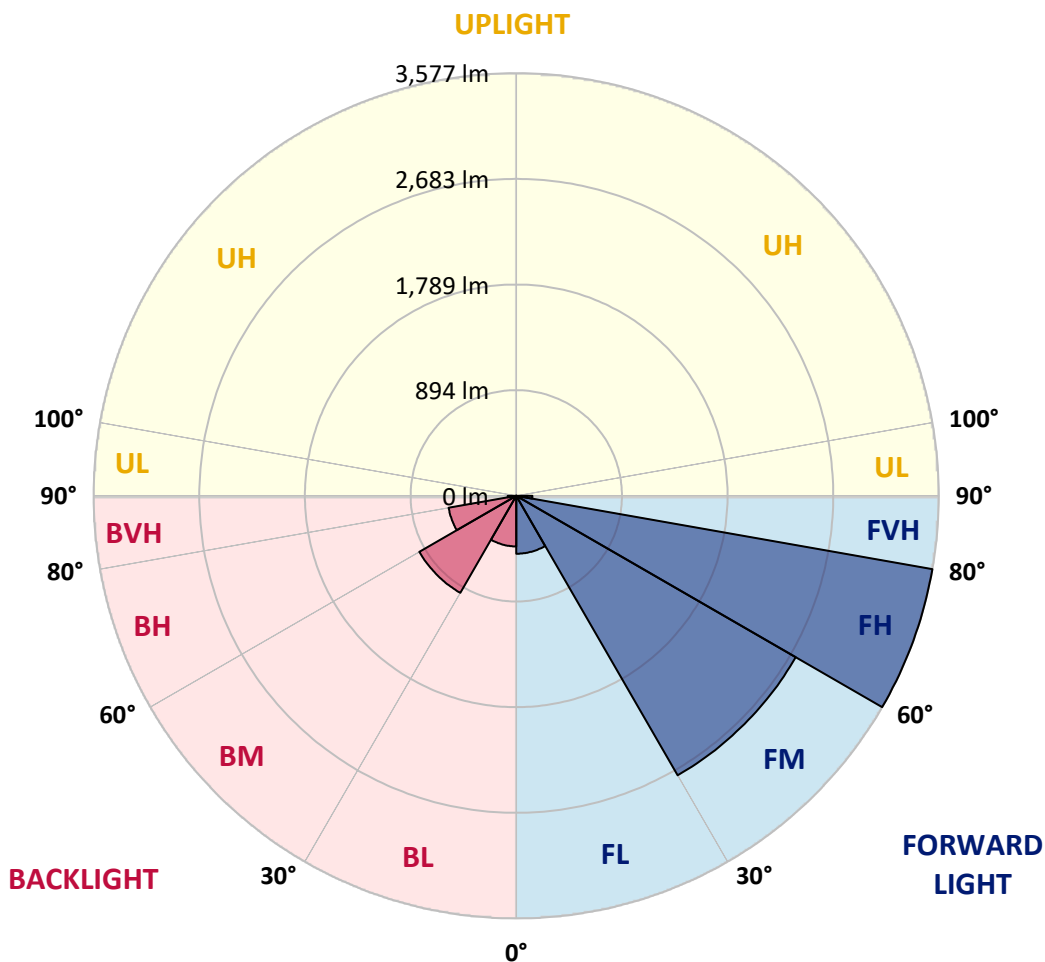


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.3	5.5			
FM (30°-60°)	2731.8	30.5			
FH (60°-80°)	3577.1	39.9			G2/5000
FVH (80°-90°)	136.8	1.5			G2/225
BL (0°-30°)	428.5	4.8	B1/500		
BM (30°-60°)	947.8	10.6	B1/1000		
BH (60°-80°)	581.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	72.6	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1
2.5°	958.2	954.8	954.3	947.1	943.3	936.1	933.2	926.4	918.3	910.2	902.5
5°	1033.5	1033.5	1030.1	1020.0	1004.2	987.9	980.7	967.7	944.7	926.0	910.2
7.5°	1110.7	1111.7	1105.0	1090.1	1067.5	1041.2	1034.4	1015.2	982.6	955.3	931.8
10°	1177.4	1177.4	1168.3	1148.1	1119.8	1091.0	1084.3	1062.8	1026.3	992.2	961.5
12.5°	1228.3	1228.3	1216.3	1189.9	1159.2	1133.2	1125.6	1105.0	1070.9	1033.0	994.1
15°	1261.4	1259.0	1245.5	1215.8	1186.0	1163.5	1158.2	1140.9	1109.7	1071.4	1027.7
17.5°	1262.8	1261.9	1248.9	1224.0	1198.1	1182.7	1179.4	1167.8	1143.3	1106.8	1060.8
20°	1235.0	1236.9	1228.3	1210.5	1198.1	1191.3	1189.9	1186.0	1168.8	1134.7	1088.7
22.5°	1205.3	1208.6	1200.4	1190.9	1189.9	1196.6	1197.6	1198.5	1187.5	1154.4	1112.2
25°	1198.1	1200.4	1192.3	1183.7	1188.9	1206.7	1210.5	1214.4	1205.7	1177.9	1140.0
27.5°	1234.5	1232.6	1216.8	1198.1	1201.4	1225.4	1230.6	1235.0	1230.6	1206.7	1174.5
30°	1337.7	1331.4	1299.8	1245.0	1227.8	1244.6	1249.8	1261.9	1261.9	1244.1	1211.9
32.5°	1510.4	1498.4	1440.3	1332.9	1272.9	1262.8	1268.1	1287.8	1297.8	1284.0	1248.9
35°	1720.1	1707.6	1624.6	1480.2	1355.5	1299.3	1297.8	1319.9	1346.8	1315.6	1270.0
37.5°	1930.7	1917.7	1818.0	1655.7	1475.9	1376.0	1367.4	1375.1	1386.6	1329.5	1299.3
40°	2141.3	2126.0	2038.6	1852.0	1623.2	1477.8	1455.2	1420.7	1415.9	1375.1	1355.9
42.5°	2350.0	2336.1	2292.0	2072.2	1799.7	1577.1	1542.5	1483.0	1501.2	1476.8	1460.0
45°	2560.6	2561.6	2514.6	2319.3	2012.7	1760.3	1713.8	1620.7	1664.0	1654.8	1664.4
47.5°	2747.3	2744.9	2728.1	2559.2	2277.1	1996.4	1936.4	1828.5	1902.4	1936.0	2009.3
50°	2928.2	2926.8	2927.7	2831.2	2584.1	2277.1	2210.9	2097.7	2264.1	2380.7	2512.2
52.5°	3187.3	3195.4	3137.4	3112.0	2957.5	2608.6	2535.7	2418.6	2691.6	2875.4	3132.1
55°	3447.3	3440.6	3395.0	3421.4	3348.0	3001.1	2924.8	2831.7	3167.6	3368.6	3754.4
57.5°	3600.4	3602.7	3649.3	3778.4	3830.2	3490.5	3421.4	3349.4	3702.6	3845.1	4308.1
60°	3738.0	3749.1	3883.0	4126.7	4267.3	4091.6	4030.3	3960.2	4193.4	4250.0	4788.8
62.5°	3781.3	3815.3	4049.0	4413.6	4693.3	4770.1	4693.9	4539.3	4660.7	4638.6	5114.6
65°	3565.9	3612.4	4031.2	4521.1	5073.8	5414.0	5365.5	5078.6	5059.0	4926.0	5167.9
67.5°	2998.7	3045.2	3583.1	4295.6	5231.2	5971.5	5923.1	5472.1	5300.8	4952.9	4764.8
70°	2194.1	2223.3	2737.7	3616.7	4915.0	6158.6	6175.4	5664.0	5214.4	4587.8	3912.3
72.5°	1264.2	1329.1	1689.3	2544.4	4015.4	5685.5	5802.1	5264.7	4668.4	3827.3	2735.3
75°	543.6	545.0	781.1	1403.4	2719.4	4570.1	4682.8	4364.2	3666.1	2646.5	1460.5
77.5°	258.6	263.4	343.5	626.6	1496.9	3157.5	3461.7	3083.1	2344.8	1271.4	551.8
80°	168.0	171.3	210.2	310.9	734.1	1830.9	2042.9	1778.6	1034.4	454.4	238.0
82.5°	101.7	102.7	140.5	190.0	403.9	829.1	977.3	772.0	441.4	272.0	140.1
85°	61.9	62.4	85.4	117.5	245.2	286.4	294.1	291.7	259.1	178.0	74.9
87.5°	29.8	30.7	44.2	55.7	96.5	88.8	83.9	97.4	122.4	96.0	32.2
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: P648297
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1
2.5°	899.1	897.7	894.3	892.9	891.9	892.4	891.9	891.9	892.4	892.4	892.4
5°	903.4	901.1	895.8	895.8	898.6	905.4	911.6	916.4	921.7	921.2	921.2
7.5°	922.1	917.8	911.6	913.5	920.7	931.3	942.3	952.8	963.4	964.4	963.9
10°	949.5	945.2	938.5	940.9	952.4	968.3	982.1	997.5	1009.0	1012.3	1011.4
12.5°	980.7	972.1	966.3	973.0	991.3	1012.3	1025.8	1037.3	1045.5	1050.2	1048.4
15°	1012.3	1004.2	997.5	1011.4	1033.5	1053.1	1059.9	1061.7	1063.2	1068.0	1067.1
17.5°	1043.0	1032.1	1029.6	1047.9	1069.0	1077.6	1073.8	1065.6	1059.4	1063.2	1062.8
20°	1070.4	1061.7	1060.8	1079.1	1087.2	1079.1	1062.8	1048.4	1037.3	1038.3	1037.8
22.5°	1096.4	1089.6	1090.6	1098.2	1085.3	1057.4	1030.6	1010.9	999.0	1001.3	1002.8
25°	1125.1	1118.4	1120.8	1108.3	1065.6	1017.2	978.3	961.5	956.7	961.5	964.9
27.5°	1162.5	1158.2	1156.8	1108.8	1030.6	957.7	913.5	907.3	911.6	922.1	927.5
30°	1202.8	1202.8	1195.2	1100.7	982.6	886.2	847.8	848.8	863.6	878.5	883.8
32.5°	1241.7	1249.8	1225.9	1078.6	920.7	816.6	787.3	788.3	801.2	819.5	824.3
35°	1273.9	1297.4	1252.3	1038.3	847.8	758.1	736.0	723.0	723.5	737.4	741.3
37.5°	1318.0	1361.6	1267.6	978.3	770.1	708.1	683.2	660.7	645.8	640.0	640.0
40°	1394.8	1459.0	1271.4	889.6	696.6	660.7	625.1	598.3	569.5	543.6	538.8
42.5°	1524.8	1605.9	1263.8	787.3	630.5	608.4	573.9	540.7	500.9	464.5	461.6
45°	1755.1	1796.8	1243.2	681.3	571.4	558.0	524.4	488.4	446.2	413.6	411.2
47.5°	2124.0	2065.0	1215.8	587.2	517.7	513.9	488.0	446.2	403.9	381.4	379.1
50°	2662.8	2487.3	1211.9	519.1	474.5	476.5	455.3	416.9	380.0	361.3	358.4
52.5°	3311.5	2997.2	1237.4	471.1	436.6	443.8	433.2	397.8	365.1	349.3	346.4
55°	3941.0	3455.9	1252.7	433.7	401.1	414.5	416.0	386.3	356.5	340.7	338.7
57.5°	4452.0	3801.4	1184.6	399.6	370.4	391.0	401.6	379.5	352.2	340.1	338.3
60°	4807.5	3964.6	990.8	369.4	347.9	372.3	396.3	380.0	362.7	364.2	365.1
62.5°	4920.8	3892.1	743.2	346.9	332.5	366.1	405.0	399.6	381.9	393.0	394.9
65°	4733.2	3592.7	538.8	329.2	319.1	370.4	430.9	414.1	375.2	383.4	383.4
67.5°	4105.1	3095.1	419.4	312.8	303.7	378.6	456.7	412.6	359.4	368.9	360.3
70°	3256.3	2394.2	349.3	294.6	287.4	366.6	459.2	397.8	340.7	342.6	326.3
72.5°	2161.0	1574.2	300.4	277.3	262.5	329.6	439.5	378.6	322.4	311.4	295.0
75°	1058.9	785.0	262.0	255.7	229.8	286.9	412.6	360.3	302.8	285.5	276.4
77.5°	410.2	333.9	223.5	228.4	200.1	252.8	377.1	334.4	276.9	253.3	246.1
80°	199.1	189.5	183.3	190.5	164.6	215.4	344.5	311.9	252.8	226.9	216.4
82.5°	123.8	117.1	140.5	148.2	126.7	196.7	326.7	292.7	222.6	188.1	179.5
85°	62.9	67.2	94.0	101.2	90.7	156.4	269.2	219.7	160.7	133.3	134.4
87.5°	24.0	32.2	49.4	53.2	48.5	82.5	148.2	128.1	103.1	70.1	64.8
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)