

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: P647857

Luminaire Tested: **GALN-SA3A-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P647857
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-SA3A-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10697.4 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

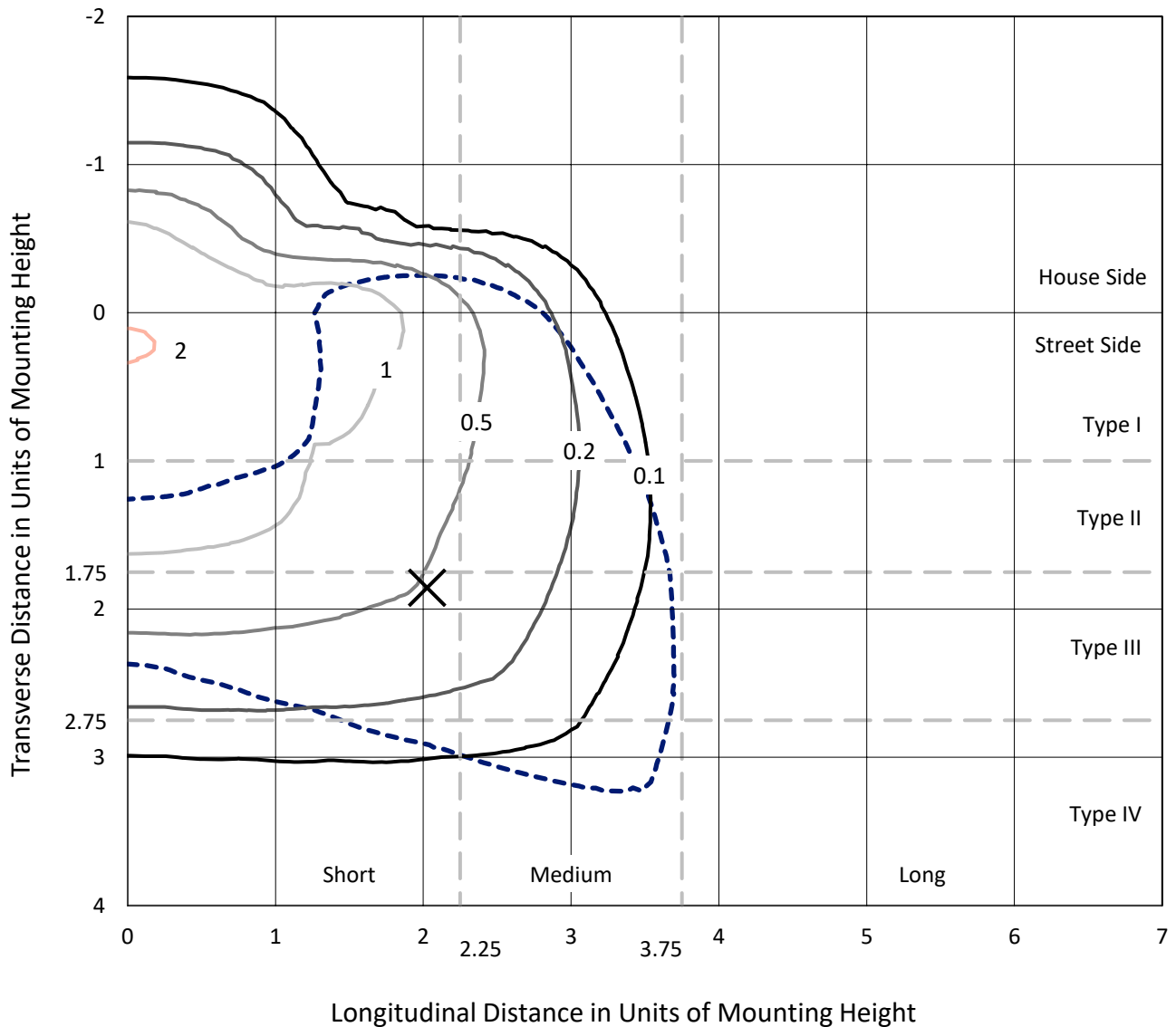
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

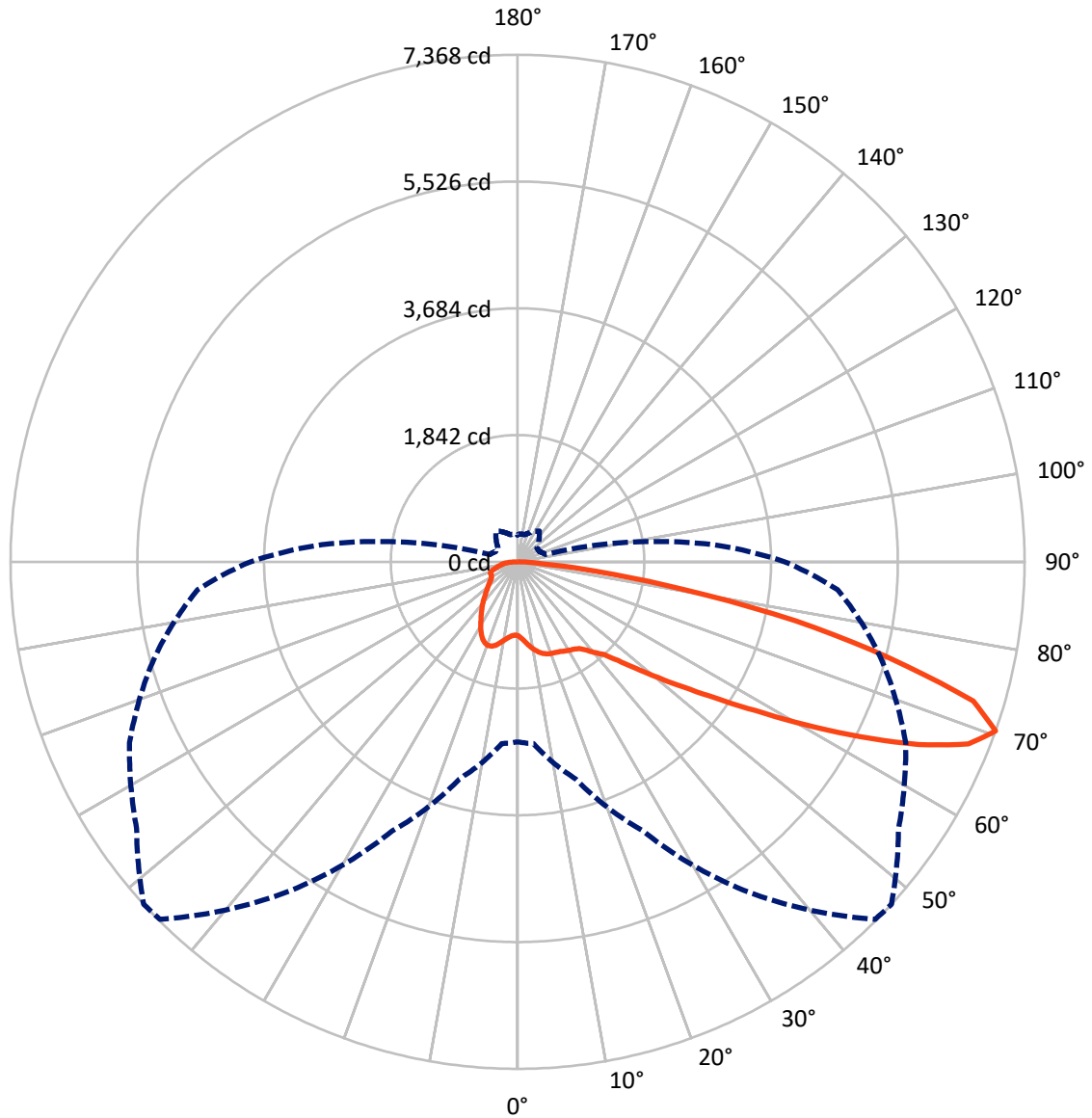
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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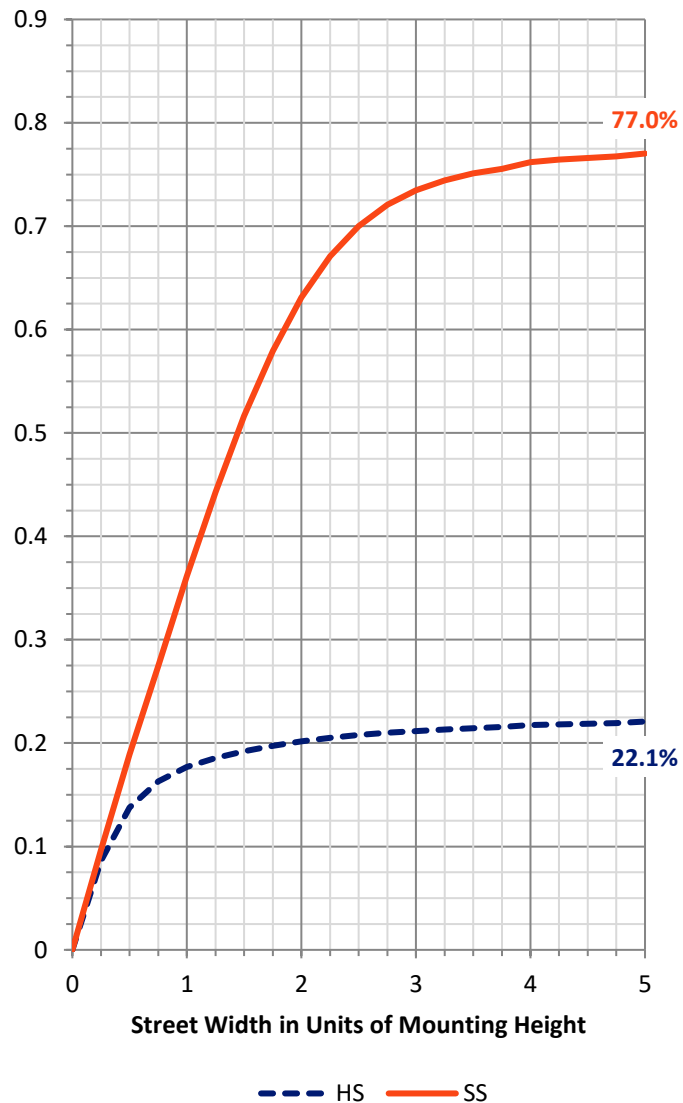
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2422.1	0.0	2422.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	8275.3	0.0	8275.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	10697.4	0.0	10697.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	1.0
10°-20°	370.1	3.5
20°-30°	615.4	5.8
30°-40°	872.3	8.2
40°-50°	1287.6	12.0
50°-60°	2230.2	20.8
60°-70°	3150.3	29.4
70°-80°	1811.0	16.9
80°-90°	249.9	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°	10697.4	100.0
0°-180°	10697.4	100.0

Coefficient of Utilization

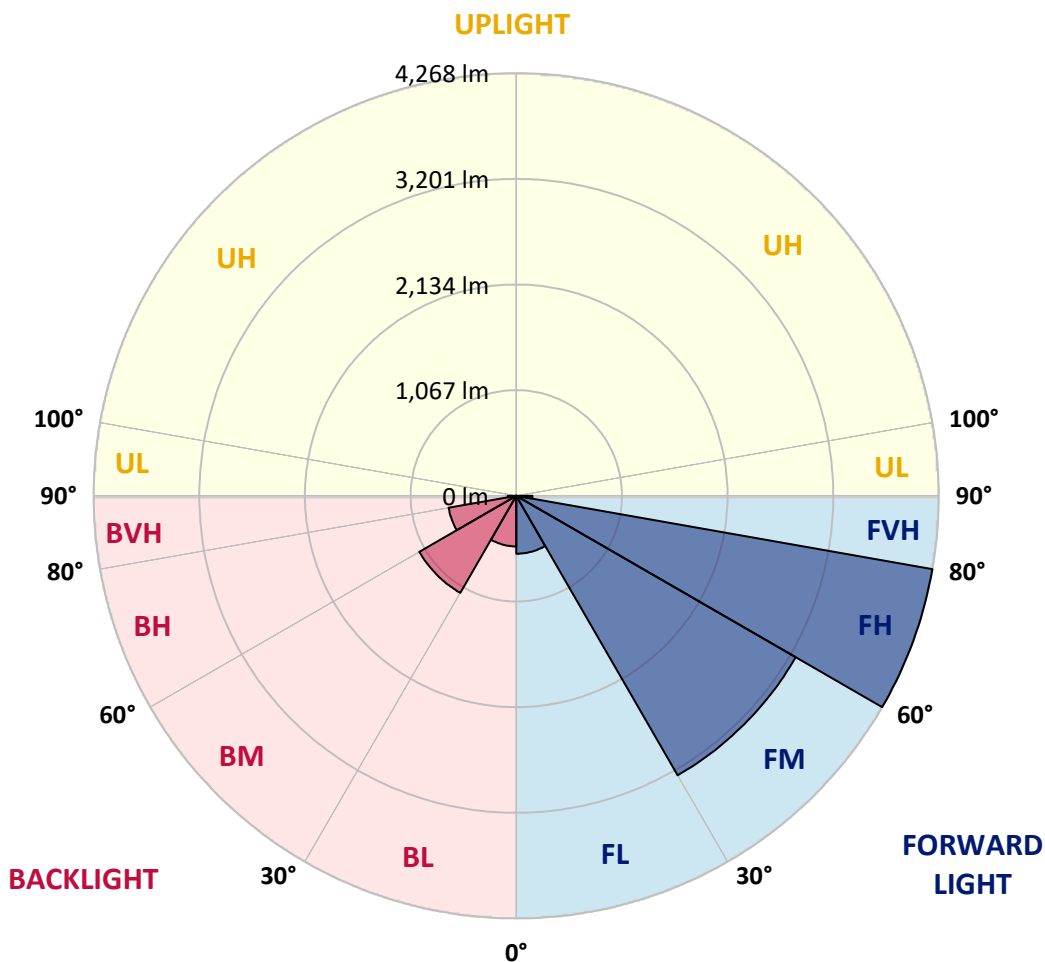


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.0	5.5			
FM (30°-60°)	3259.3	30.5			
FH (60°-80°)	4267.8	39.9			G2/5000
FVH (80°-90°)	163.2	1.5			G2/225
BL (0°-30°)	511.2	4.8	B2/1000		
BM (30°-60°)	1130.8	10.6	B2/2500		
BH (60°-80°)	693.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	86.6	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°	1073.9	1073.9	1073.9	1073.9	1073.9	1073.9	1073.9	1073.9	1073.9	1073.9	1073.9
2.5°	1143.2	1139.1	1138.6	1129.9	1125.4	1116.8	1113.3	1105.4	1095.7	1085.9	1076.8
5°	1233.0	1233.0	1229.0	1217.0	1198.1	1178.6	1170.0	1154.6	1127.1	1104.8	1085.9
7.5°	1325.1	1326.3	1318.3	1300.6	1273.6	1242.2	1234.2	1211.3	1172.3	1139.7	1111.7
10°	1404.8	1404.8	1393.9	1369.9	1336.0	1301.7	1293.7	1267.9	1224.5	1183.8	1147.2
12.5°	1465.5	1465.5	1451.1	1419.7	1383.0	1352.1	1342.9	1318.3	1277.7	1232.4	1186.1
15°	1504.9	1502.0	1486.1	1450.5	1415.0	1388.2	1381.8	1361.2	1324.1	1278.2	1226.2
17.5°	1506.6	1505.5	1490.0	1460.3	1429.4	1411.0	1407.1	1393.3	1364.1	1320.6	1265.6
20°	1473.4	1475.7	1465.5	1444.2	1429.4	1421.4	1419.7	1415.0	1394.4	1353.8	1298.8
22.5°	1438.0	1442.0	1432.3	1420.8	1419.7	1427.6	1428.8	1429.9	1416.8	1377.3	1326.9
25°	1429.4	1432.3	1422.5	1412.2	1418.5	1439.7	1444.2	1448.9	1438.5	1405.3	1360.1
27.5°	1472.9	1470.6	1451.7	1429.4	1433.4	1462.0	1468.3	1473.4	1468.3	1439.7	1401.3
30°	1595.9	1588.5	1550.7	1485.4	1464.8	1484.9	1491.2	1505.5	1505.5	1484.3	1446.0
32.5°	1802.0	1787.7	1718.5	1590.2	1518.6	1506.6	1512.9	1536.4	1548.5	1531.9	1490.0
35°	2052.2	2037.3	1938.2	1766.0	1617.1	1550.2	1548.5	1574.8	1606.8	1569.6	1515.3
37.5°	2303.5	2288.0	2169.0	1975.4	1760.8	1641.7	1631.5	1640.6	1654.3	1586.2	1550.2
40°	2554.8	2536.5	2432.2	2209.6	1936.5	1763.1	1736.2	1695.0	1689.2	1640.6	1617.7
42.5°	2803.8	2787.2	2734.5	2472.3	2147.2	1881.6	1840.4	1769.4	1791.1	1762.0	1741.9
45°	3055.1	3056.2	3000.1	2767.1	2401.4	2100.2	2044.7	1933.7	1985.2	1974.3	1985.8
47.5°	3277.7	3274.9	3254.9	3053.4	2716.8	2381.9	2310.3	2181.5	2269.7	2309.8	2397.4
50°	3493.6	3491.9	3493.0	3377.9	3083.1	2716.8	2637.8	2502.7	2701.4	2840.4	2997.2
52.5°	3802.6	3812.4	3743.1	3712.8	3528.5	3112.3	3025.3	2885.7	3211.3	3430.6	3736.9
55°	4112.9	4105.0	4050.5	4082.0	3994.5	3580.6	3489.5	3378.5	3779.2	4019.1	4479.3
57.5°	4295.5	4298.4	4353.9	4507.9	4569.7	4164.5	4082.0	3996.1	4417.5	4587.5	5139.8
60°	4459.8	4473.0	4632.7	4923.5	5091.2	4881.7	4808.4	4724.9	5003.1	5070.6	5713.5
62.5°	4511.3	4552.0	4830.8	5265.8	5599.5	5691.2	5600.1	5415.8	5560.6	5534.3	6102.2
65°	4254.4	4309.9	4809.6	5394.0	6053.5	6459.4	6401.5	6059.2	6035.8	5877.2	6165.7
67.5°	3577.7	3633.2	4274.9	5125.0	6241.2	7124.5	7066.7	6528.6	6324.2	5909.2	5684.8
70°	2617.7	2652.6	3266.3	4315.0	5864.0	7347.8	7367.8	6757.6	6221.2	5473.6	4667.6
72.5°	1508.4	1585.7	2015.5	3035.6	4790.7	6783.4	6922.4	6281.3	5569.8	4566.3	3263.5
75°	648.6	650.3	931.9	1674.4	3244.5	5452.4	5586.9	5206.9	4374.0	3157.5	1742.5
77.5°	308.6	314.3	409.9	747.6	1786.0	3767.2	4130.1	3678.5	2797.5	1517.0	658.3
80°	200.4	204.4	250.7	370.9	875.8	2184.4	2437.4	2122.0	1234.2	542.1	283.9
82.5°	121.4	122.5	167.7	226.7	482.0	989.2	1166.0	921.0	526.6	324.6	167.2
85°	73.8	74.4	101.9	140.2	292.5	341.8	350.9	348.0	309.1	212.3	89.3
87.5°	35.5	36.6	52.7	66.4	115.0	105.9	100.1	116.2	146.0	114.5	38.4
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°	1073.9	1073.9	1073.9	1073.9	1073.9	1073.9	1073.9	1073.9	1073.9	1073.9	1073.9
2.5°	1072.7	1071.0	1067.0	1065.3	1064.2	1064.7	1064.2	1064.2	1064.7	1064.7	1064.7
5°	1077.9	1075.1	1068.7	1068.7	1072.2	1080.1	1087.6	1093.4	1099.6	1099.1	1099.1
7.5°	1100.2	1095.1	1087.6	1089.9	1098.5	1111.1	1124.2	1136.8	1149.4	1150.6	1150.0
10°	1132.8	1127.7	1119.7	1122.5	1136.3	1155.2	1171.8	1190.1	1203.9	1207.9	1206.7
12.5°	1170.0	1159.8	1152.9	1160.9	1182.6	1207.9	1223.8	1237.6	1247.3	1253.0	1250.8
15°	1207.9	1198.1	1190.1	1206.7	1233.0	1256.5	1264.5	1266.8	1268.5	1274.3	1273.1
17.5°	1244.5	1231.3	1228.4	1250.2	1275.4	1285.7	1281.1	1271.4	1263.9	1268.5	1267.9
20°	1277.1	1266.8	1265.6	1287.4	1297.1	1287.4	1267.9	1250.8	1237.6	1238.8	1238.2
22.5°	1308.0	1300.0	1301.1	1310.3	1294.8	1261.6	1229.6	1206.1	1191.8	1194.7	1196.4
25°	1342.4	1334.3	1337.2	1322.3	1271.4	1213.6	1167.2	1147.2	1141.5	1147.2	1151.2
27.5°	1387.0	1381.8	1380.1	1322.9	1229.6	1142.6	1089.9	1082.5	1087.6	1100.2	1106.5
30°	1435.1	1435.1	1425.9	1313.2	1172.3	1057.3	1011.5	1012.7	1030.3	1048.1	1054.4
32.5°	1481.4	1491.2	1462.6	1286.9	1098.5	974.3	939.4	940.5	956.0	977.7	983.4
35°	1519.8	1547.8	1494.0	1238.8	1011.5	904.4	878.1	862.6	863.3	879.9	884.4
37.5°	1572.5	1624.6	1512.4	1167.2	918.8	844.9	815.2	788.2	770.5	763.7	763.7
40°	1664.0	1740.8	1517.0	1061.3	831.2	788.2	745.9	713.9	679.5	648.6	642.8
42.5°	1819.2	1915.9	1507.8	939.4	752.1	725.8	684.7	645.1	597.6	554.1	550.7
45°	2094.0	2143.8	1483.2	812.8	681.8	665.7	625.7	582.7	532.4	493.4	490.5
47.5°	2534.2	2463.8	1450.5	700.6	617.6	613.1	582.2	532.4	482.0	455.1	452.3
50°	3177.0	2967.5	1446.0	619.4	566.1	568.5	543.2	497.4	453.4	431.0	427.6
52.5°	3950.9	3576.0	1476.3	562.1	520.9	529.5	516.9	474.6	435.6	416.7	413.3
55°	4702.0	4123.2	1494.6	517.5	478.6	494.6	496.3	460.8	425.3	406.5	404.1
57.5°	5311.6	4535.4	1413.3	476.8	441.9	466.5	479.1	452.8	420.2	405.8	403.6
60°	5735.8	4730.0	1182.1	440.8	415.0	444.2	472.9	453.4	432.8	434.5	435.6
62.5°	5870.9	4643.6	886.7	413.9	396.7	436.8	483.1	476.8	455.6	468.9	471.1
65°	5647.1	4286.4	642.8	392.7	380.7	441.9	514.0	494.0	447.6	457.4	457.4
67.5°	4897.7	3692.8	500.3	373.3	362.4	451.6	545.0	492.3	428.8	440.2	429.9
70°	3885.1	2856.5	416.7	351.5	342.9	437.3	547.8	474.6	406.5	408.7	389.2
72.5°	2578.3	1878.2	358.4	330.9	313.1	393.2	524.4	451.6	384.7	371.5	352.0
75°	1263.4	936.5	312.6	305.1	274.2	342.3	492.3	429.9	361.2	340.6	329.7
77.5°	489.5	398.4	266.8	272.5	238.7	301.7	449.9	399.0	330.3	302.2	293.6
80°	237.6	226.1	218.7	227.2	196.4	257.1	411.0	372.1	301.7	270.8	258.2
82.5°	147.7	139.7	167.7	176.9	151.1	234.7	389.9	349.2	265.6	224.4	214.1
85°	75.0	80.2	112.2	120.8	108.2	186.6	321.1	262.1	191.8	159.1	160.3
87.5°	28.7	38.4	59.0	63.5	57.8	98.4	176.9	152.8	123.1	83.5	77.3
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)