

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: P647307

Luminaire Tested: **GALN-SA2D-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P647307
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-SA2D-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12189.7 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

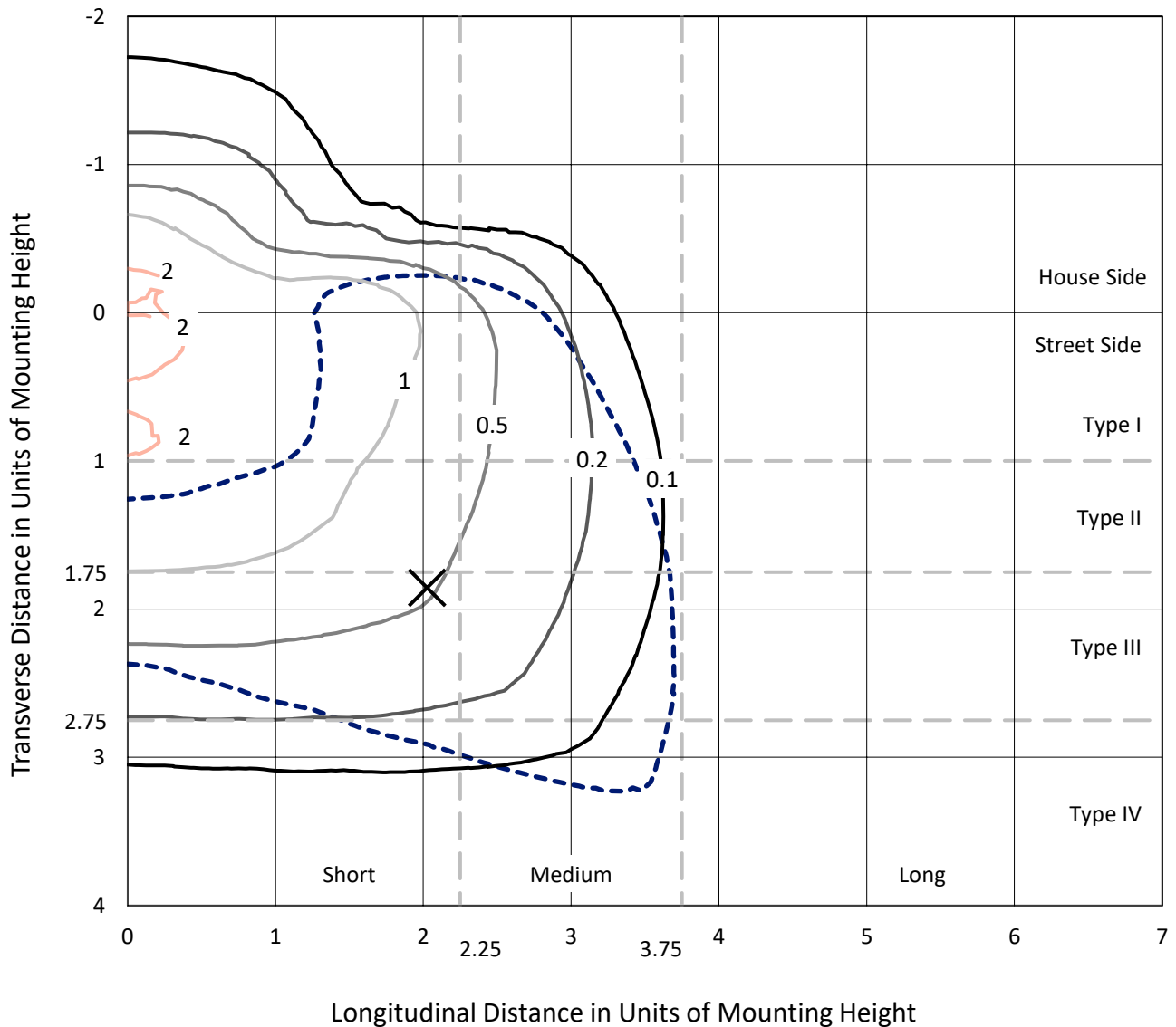
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647307
 CATALOG NUMBER: GALN-SA2D-835-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

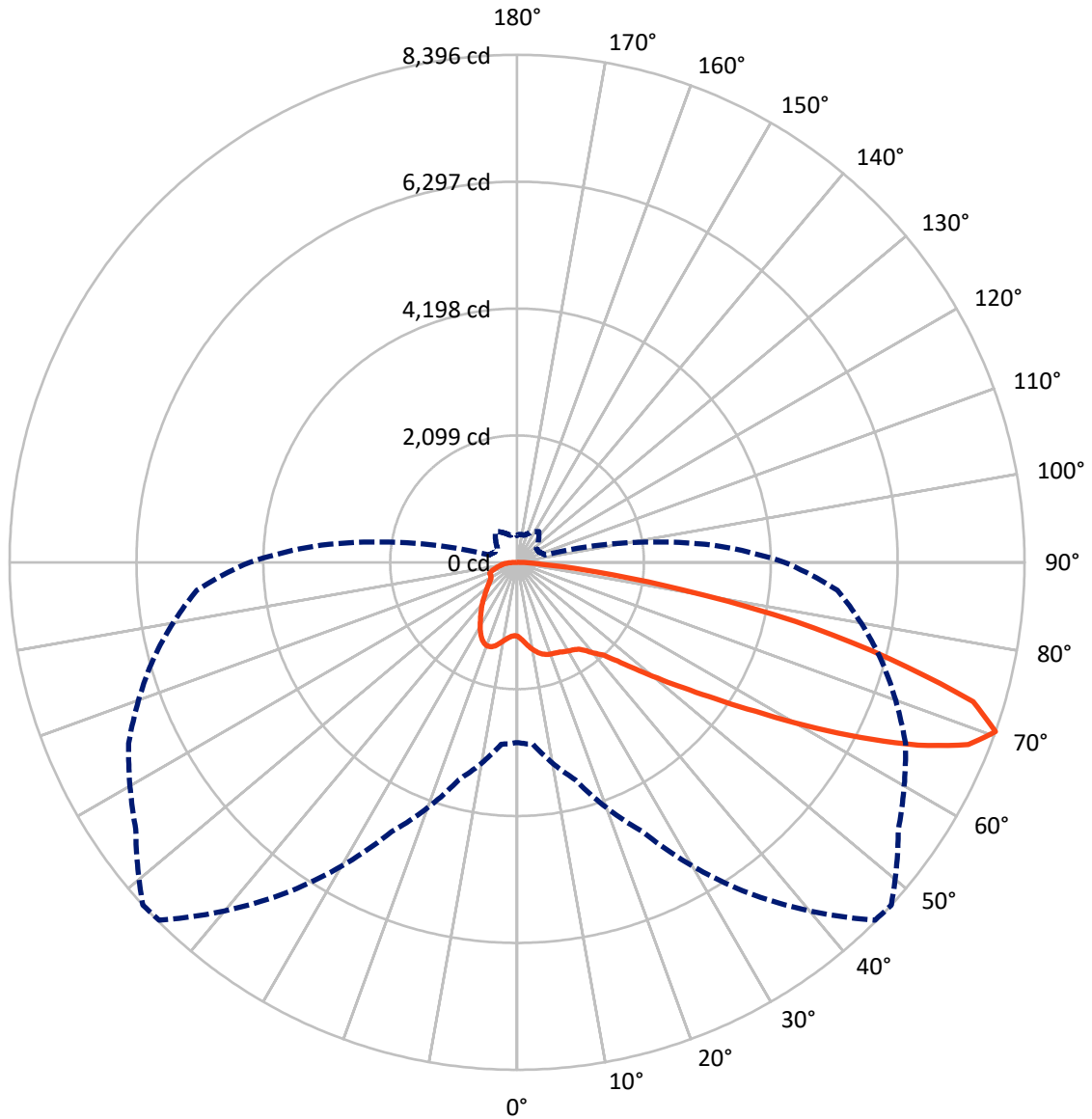
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P647307
CATALOG NUMBER: GALN-SA2D-835-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647307
 CATALOG NUMBER: GALN-SA2D-835-U-T4W

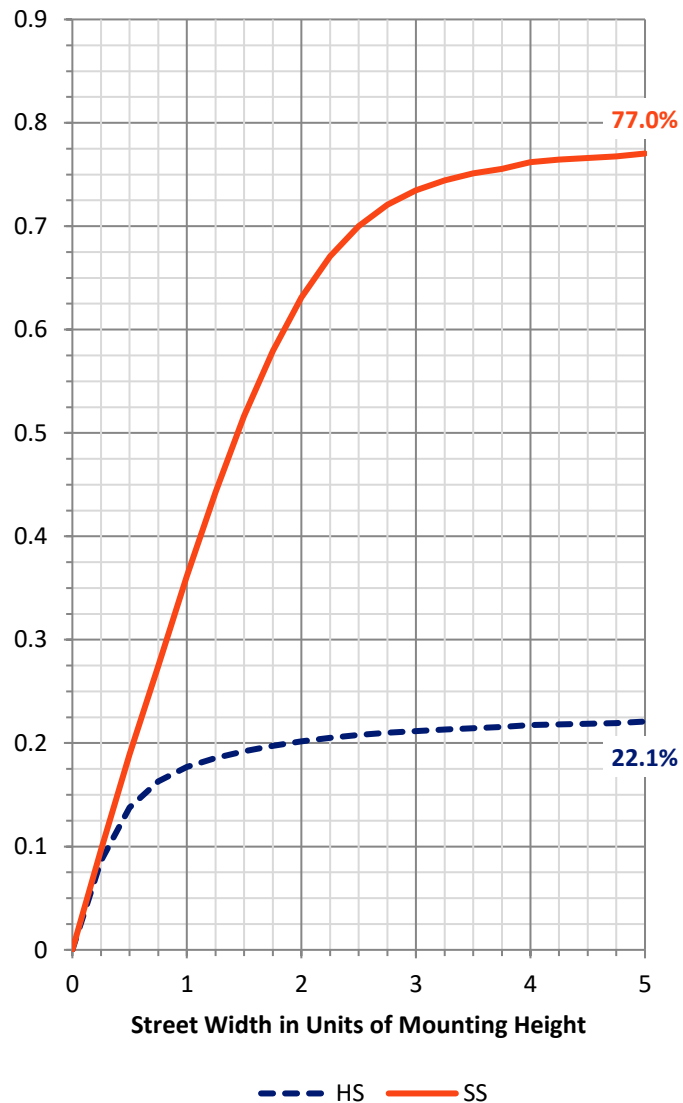
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2760.0	0.0	2760.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9429.7	0.0	9429.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	12189.7	0.0	12189.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	1.0
10°-20°	421.7	3.5
20°-30°	701.3	5.8
30°-40°	993.9	8.2
40°-50°	1467.3	12.0
50°-60°	2541.4	20.8
60°-70°	3589.8	29.4
70°-80°	2063.6	16.9
80°-90°	284.7	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°	12189.7	100.0
0°-180°	12189.7	100.0

Coefficient of Utilization

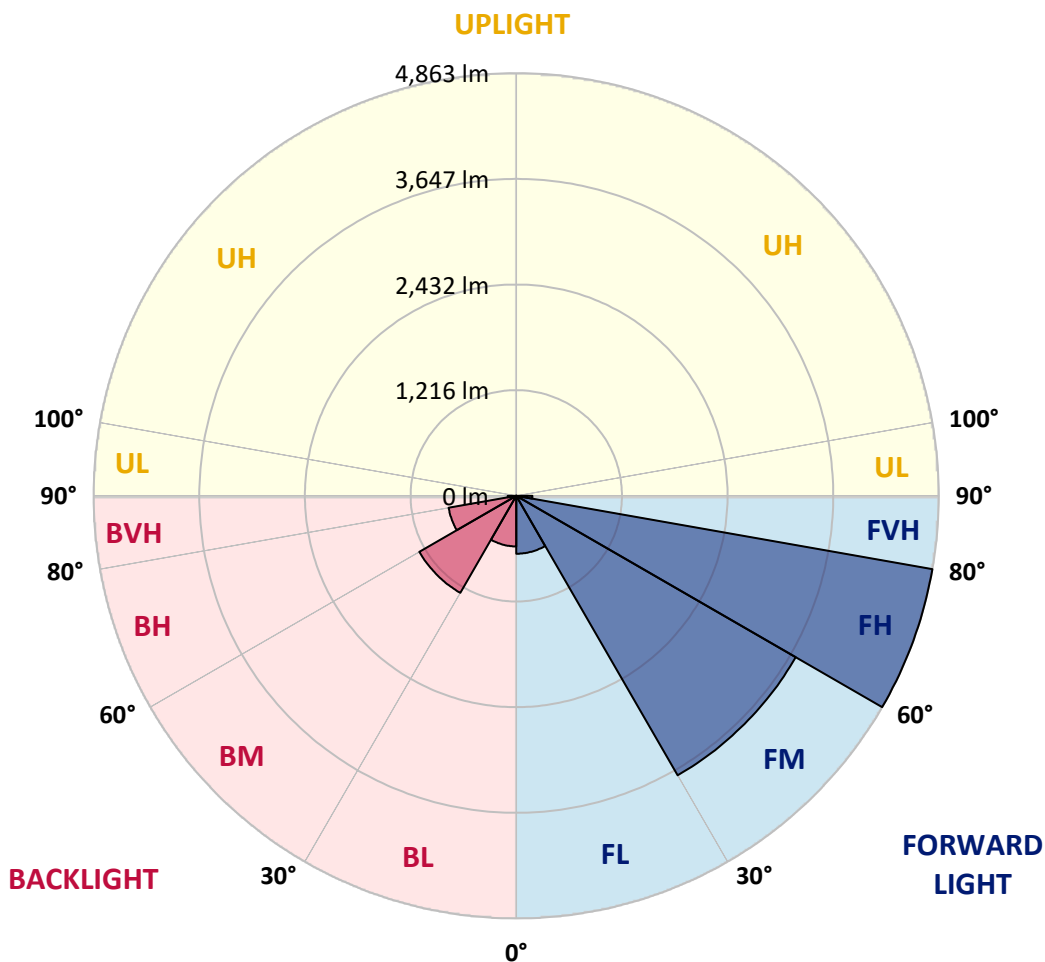


REPORT NUMBER: P647307
 CATALOG NUMBER: GALN-SA2D-835-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.6	5.5			
FM (30°-60°)	3714.0	30.5			
FH (60°-80°)	4863.2	39.9			G2/5000
FVH (80°-90°)	186.0	1.5			G2/225
BL (0°-30°)	582.5	4.8	B2/1000		
BM (30°-60°)	1288.6	10.6	B2/2500		
BH (60°-80°)	790.1	6.5	B2/1000		G2/1000
BVH (80°-90°)	98.7	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





REPORT NUMBER: P647307
 CATALOG NUMBER: GALN-SA2D-835-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7
2.5°	1302.6	1298.1	1297.4	1287.6	1282.4	1272.6	1268.7	1259.6	1248.5	1237.4	1227.0
5°	1405.0	1405.0	1400.5	1386.8	1365.2	1343.1	1333.3	1315.7	1284.4	1258.9	1237.4
7.5°	1510.1	1511.3	1502.3	1482.0	1451.4	1415.5	1406.3	1380.3	1335.9	1298.7	1266.7
10°	1600.8	1600.8	1588.3	1560.9	1522.5	1483.3	1474.2	1444.9	1395.2	1349.0	1307.2
12.5°	1669.9	1669.9	1653.5	1617.7	1575.9	1540.7	1530.3	1502.3	1455.9	1404.4	1351.5
15°	1714.8	1711.6	1693.4	1652.9	1612.4	1581.8	1574.6	1551.1	1508.8	1456.5	1397.2
17.5°	1716.8	1715.6	1697.9	1664.0	1628.8	1607.9	1603.3	1587.7	1554.4	1504.8	1442.2
20°	1679.0	1681.6	1669.9	1645.7	1628.8	1619.6	1617.7	1612.4	1589.0	1542.7	1480.0
22.5°	1638.6	1643.1	1632.0	1619.0	1617.7	1626.8	1628.1	1629.4	1614.4	1569.4	1512.1
25°	1628.8	1632.0	1621.0	1609.2	1616.3	1640.5	1645.7	1651.0	1639.2	1601.4	1549.9
27.5°	1678.4	1675.8	1654.2	1628.8	1633.3	1666.0	1673.1	1679.0	1673.1	1640.5	1596.9
30°	1818.6	1810.1	1767.1	1692.7	1669.2	1692.1	1699.2	1715.6	1715.6	1691.4	1647.7
32.5°	2053.4	2037.1	1958.2	1812.1	1730.5	1716.8	1724.0	1750.8	1764.5	1745.5	1697.9
35°	2338.5	2321.5	2208.7	2012.3	1842.7	1766.4	1764.5	1794.5	1831.0	1788.6	1726.6
37.5°	2624.9	2607.2	2471.5	2251.0	2006.4	1870.7	1859.1	1869.5	1885.2	1807.5	1766.4
40°	2911.2	2890.3	2771.6	2517.9	2206.7	2009.1	1978.4	1931.4	1924.9	1869.5	1843.4
42.5°	3195.0	3176.0	3116.0	2817.2	2446.7	2144.1	2097.1	2016.2	2041.0	2007.8	1984.9
45°	3481.3	3482.6	3418.7	3153.2	2736.4	2393.2	2330.0	2203.4	2262.2	2249.8	2262.8
47.5°	3735.1	3731.8	3708.9	3479.3	3095.8	2714.2	2632.7	2485.9	2586.3	2632.0	2731.8
50°	3980.9	3979.0	3980.3	3849.1	3513.2	3095.8	3005.8	2851.8	3078.2	3236.7	3415.4
52.5°	4333.2	4344.2	4265.3	4230.8	4020.7	3546.5	3447.4	3288.2	3659.4	3909.2	4258.2
55°	4686.7	4677.6	4615.6	4651.5	4551.7	4080.1	3976.4	3849.9	4306.4	4579.8	5104.2
57.5°	4894.8	4898.1	4961.3	5136.8	5207.3	4745.4	4651.5	4553.7	5033.8	5227.5	5856.9
60°	5082.1	5097.0	5279.0	5610.4	5801.5	5562.7	5479.3	5384.1	5701.0	5778.0	6510.6
62.5°	5140.7	5187.1	5504.7	6000.4	6380.7	6485.1	6381.4	6171.4	6336.3	6306.4	6953.4
65°	4847.9	4911.1	5480.6	6146.6	6898.0	7360.5	7294.6	6904.5	6877.8	6697.1	7025.9
67.5°	4076.8	4140.1	4871.4	5840.0	7112.0	8118.5	8052.6	7439.4	7206.6	6733.6	6477.9
70°	2982.9	3022.7	3722.0	4917.0	6682.1	8372.9	8395.6	7700.3	7089.1	6237.2	5318.8
72.5°	1718.8	1806.9	2296.7	3459.1	5459.1	7729.7	7888.2	7157.6	6346.8	5203.3	3718.7
75°	739.1	741.0	1061.9	1907.9	3697.2	6213.1	6366.4	5933.3	4984.2	3598.0	1985.6
77.5°	351.6	358.1	467.1	851.9	2035.2	4292.7	4706.3	4191.6	3187.7	1728.6	750.1
80°	228.3	232.9	285.7	422.7	998.0	2489.2	2777.5	2418.1	1406.3	617.7	323.5
82.5°	138.3	139.6	191.1	258.3	549.2	1127.1	1328.8	1049.5	600.1	369.9	190.5
85°	84.2	84.8	116.1	159.8	333.3	389.4	399.9	396.6	352.3	242.0	101.8
87.5°	40.5	41.7	60.0	75.6	131.1	120.7	114.2	132.4	166.3	130.4	43.7
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: P647307
 CATALOG NUMBER: GALN-SA2D-835-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7
2.5°	1222.4	1220.5	1215.8	1213.9	1212.6	1213.3	1212.6	1212.6	1213.3	1213.3	1213.3
5°	1228.3	1225.0	1217.8	1217.8	1221.7	1230.9	1239.3	1245.9	1253.0	1252.4	1252.4
7.5°	1253.7	1247.9	1239.3	1242.0	1251.8	1266.1	1281.1	1295.5	1309.8	1311.1	1310.4
10°	1290.9	1285.0	1275.9	1279.2	1294.8	1316.3	1335.2	1356.2	1371.7	1376.4	1375.0
12.5°	1333.3	1321.5	1313.7	1322.9	1347.6	1376.4	1394.6	1410.3	1421.4	1427.9	1425.3
15°	1376.4	1365.2	1356.2	1375.0	1405.0	1431.8	1441.0	1443.5	1445.5	1452.0	1450.7
17.5°	1418.1	1403.1	1399.8	1424.6	1453.3	1465.1	1459.8	1448.7	1440.3	1445.5	1444.9
20°	1455.3	1443.5	1442.2	1467.0	1478.1	1467.0	1444.9	1425.3	1410.3	1411.6	1410.9
22.5°	1490.5	1481.4	1482.7	1493.1	1475.5	1437.7	1401.1	1374.4	1358.1	1361.3	1363.3
25°	1529.6	1520.5	1523.8	1506.8	1448.7	1382.9	1330.0	1307.2	1300.6	1307.2	1311.8
27.5°	1580.5	1574.6	1572.7	1507.4	1401.1	1302.0	1242.0	1233.5	1239.3	1253.7	1260.9
30°	1635.3	1635.3	1624.9	1496.4	1335.9	1204.8	1152.6	1153.9	1174.1	1194.4	1201.5
32.5°	1688.1	1699.2	1666.6	1466.3	1251.8	1110.2	1070.4	1071.7	1089.3	1114.1	1120.6
35°	1731.8	1763.8	1702.5	1411.6	1152.6	1030.7	1000.6	983.0	983.7	1002.6	1007.8
37.5°	1791.8	1851.2	1723.4	1330.0	1046.9	962.8	928.9	898.2	878.0	870.1	870.1
40°	1896.2	1983.7	1728.6	1209.3	947.1	898.2	849.9	813.4	774.3	739.1	732.5
42.5°	2073.0	2183.2	1718.1	1070.4	857.2	827.1	780.2	735.2	681.0	631.4	627.5
45°	2386.1	2442.8	1690.1	926.3	776.9	758.6	712.9	664.1	606.7	562.3	559.0
47.5°	2887.7	2807.4	1652.9	798.4	703.8	698.6	663.4	606.7	549.2	518.6	515.3
50°	3620.2	3381.5	1647.7	705.8	645.1	647.7	619.0	566.8	516.6	491.2	487.3
52.5°	4502.2	4074.9	1682.3	640.6	593.6	603.4	589.1	540.7	496.4	474.9	471.0
55°	5357.9	4698.5	1703.1	589.7	545.3	563.6	565.6	525.1	484.7	463.1	460.5
57.5°	6052.7	5168.1	1610.6	543.3	503.5	531.7	546.0	516.0	478.8	462.4	459.9
60°	6536.0	5389.9	1347.0	502.3	472.9	506.2	538.8	516.6	493.1	495.1	496.4
62.5°	6690.0	5291.4	1010.4	471.6	452.0	497.7	550.5	543.3	519.2	534.2	536.8
65°	6434.9	4884.4	732.5	447.5	433.8	503.5	585.8	562.9	510.1	521.2	521.2
67.5°	5581.0	4207.9	570.1	425.3	412.9	514.7	621.0	560.9	488.6	501.6	489.8
70°	4427.1	3254.9	474.9	400.5	390.7	498.4	624.2	540.7	463.1	465.7	443.6
72.5°	2937.9	2140.2	408.3	377.0	356.8	448.1	597.5	514.7	438.3	423.4	401.1
75°	1439.6	1067.2	356.2	347.7	312.4	390.1	560.9	489.8	411.6	388.1	375.7
77.5°	557.7	454.0	304.0	310.5	272.0	343.7	512.7	454.6	376.4	344.4	334.7
80°	270.7	257.7	249.2	258.9	223.7	292.8	468.3	424.0	343.7	308.5	294.2
82.5°	168.3	159.2	191.1	201.5	172.2	267.5	444.2	397.9	302.6	255.7	244.0
85°	85.4	91.3	127.9	137.7	123.3	212.7	366.0	298.7	218.5	181.3	182.7
87.5°	32.7	43.7	67.2	72.4	65.9	112.2	201.5	174.1	140.2	95.2	88.1
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)