

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: P647855

Luminaire Tested: **GALN-SA3A-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10666 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

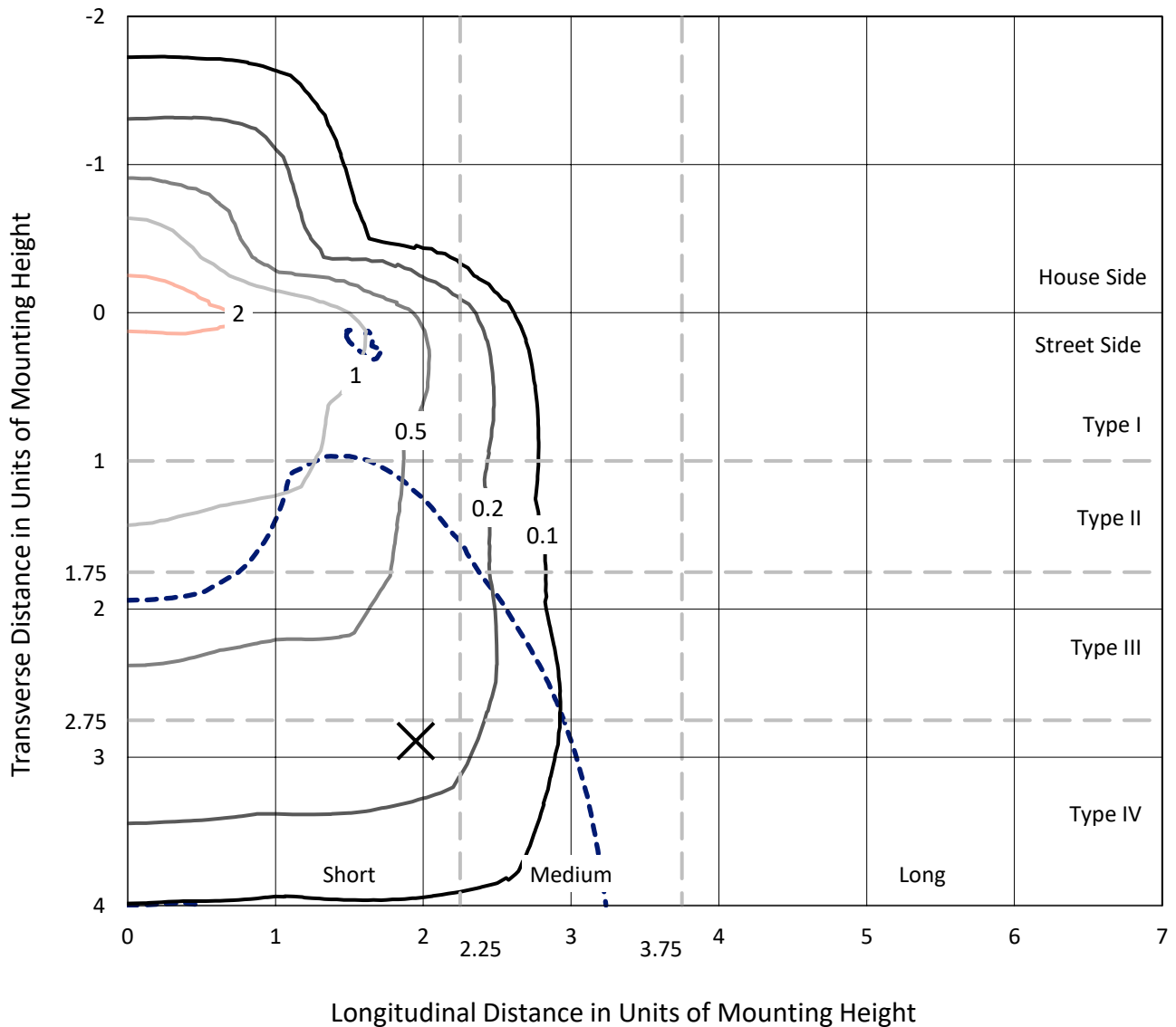
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

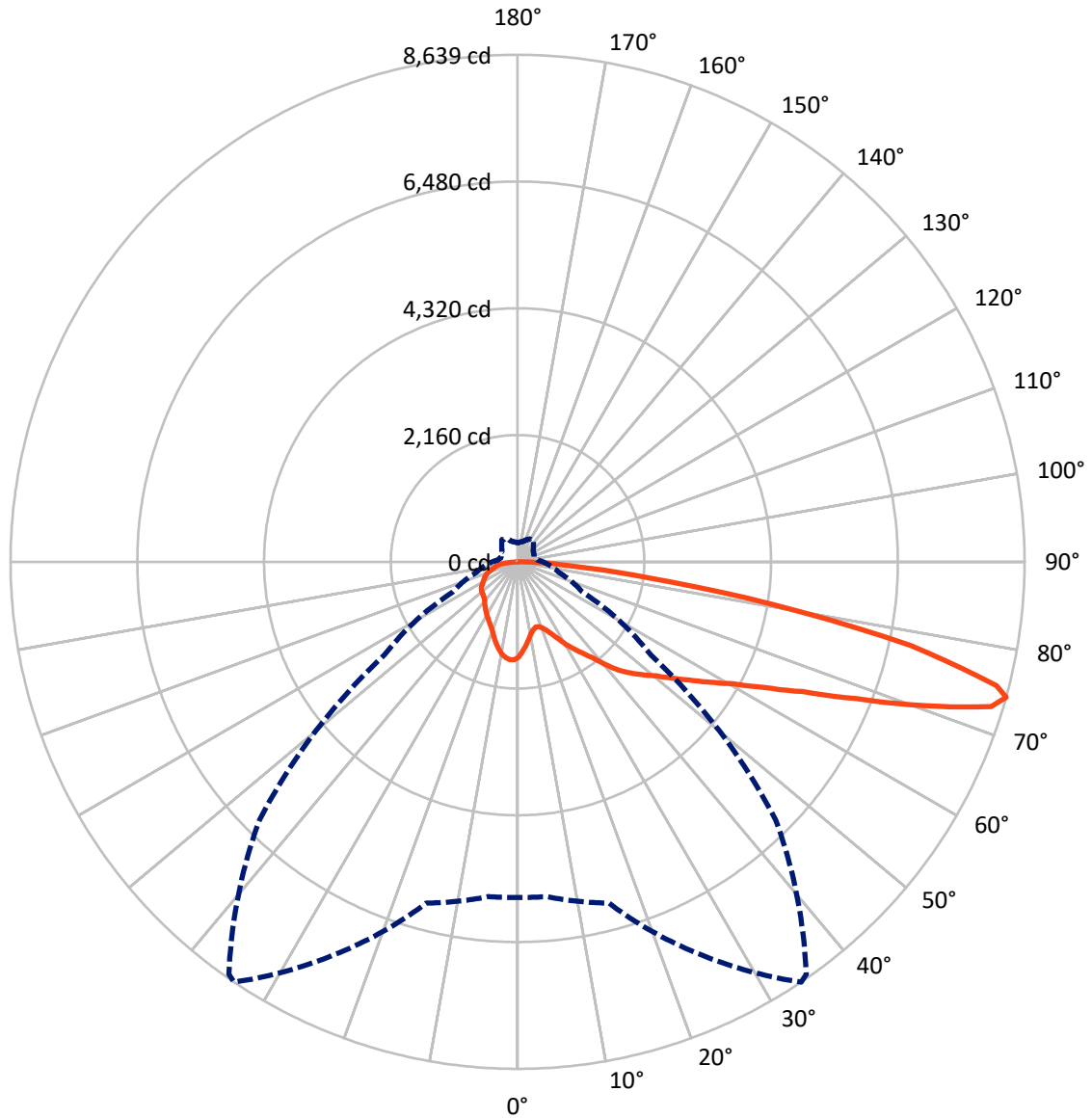
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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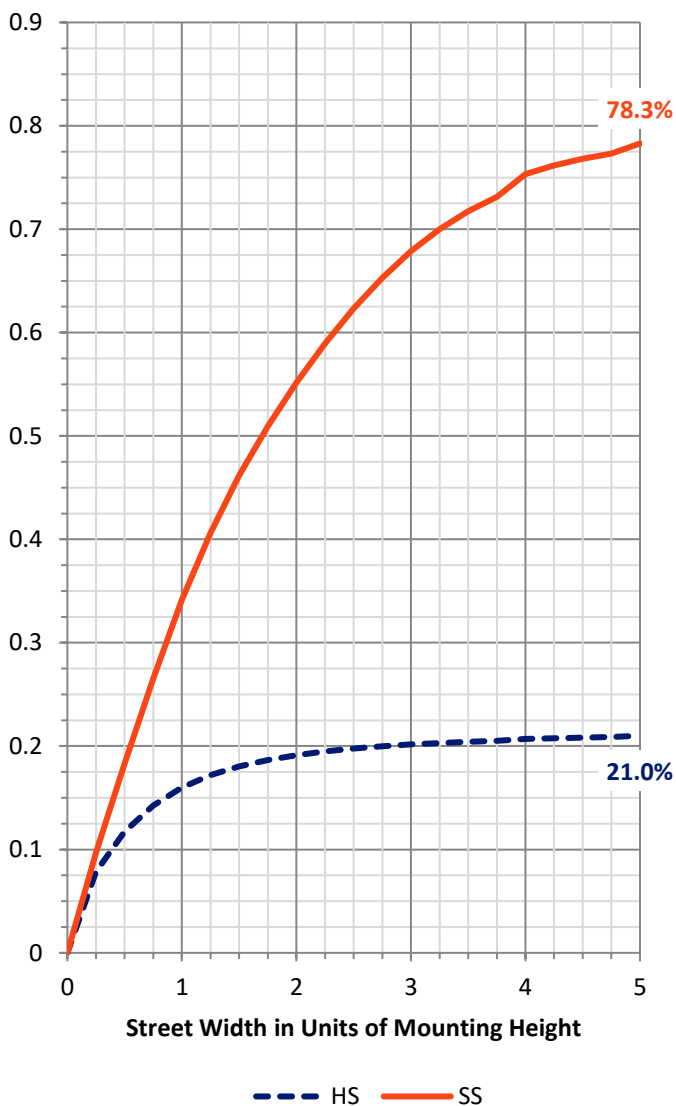
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2269.8	0.0	2269.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	8396.2	0.0	8396.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	10666.0	0.0	10666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	1.4
10°-20°	405.4	3.8
20°-30°	668.5	6.3
30°-40°	1001.3	9.4
40°-50°	1455.6	13.6
50°-60°	2033.1	19.1
60°-70°	2545.3	23.9
70°-80°	2104.8	19.7
80°-90°	304.1	2.9
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°	10666.0	100.0
0°-180°	10666.0	100.0

Coefficient of Utilization

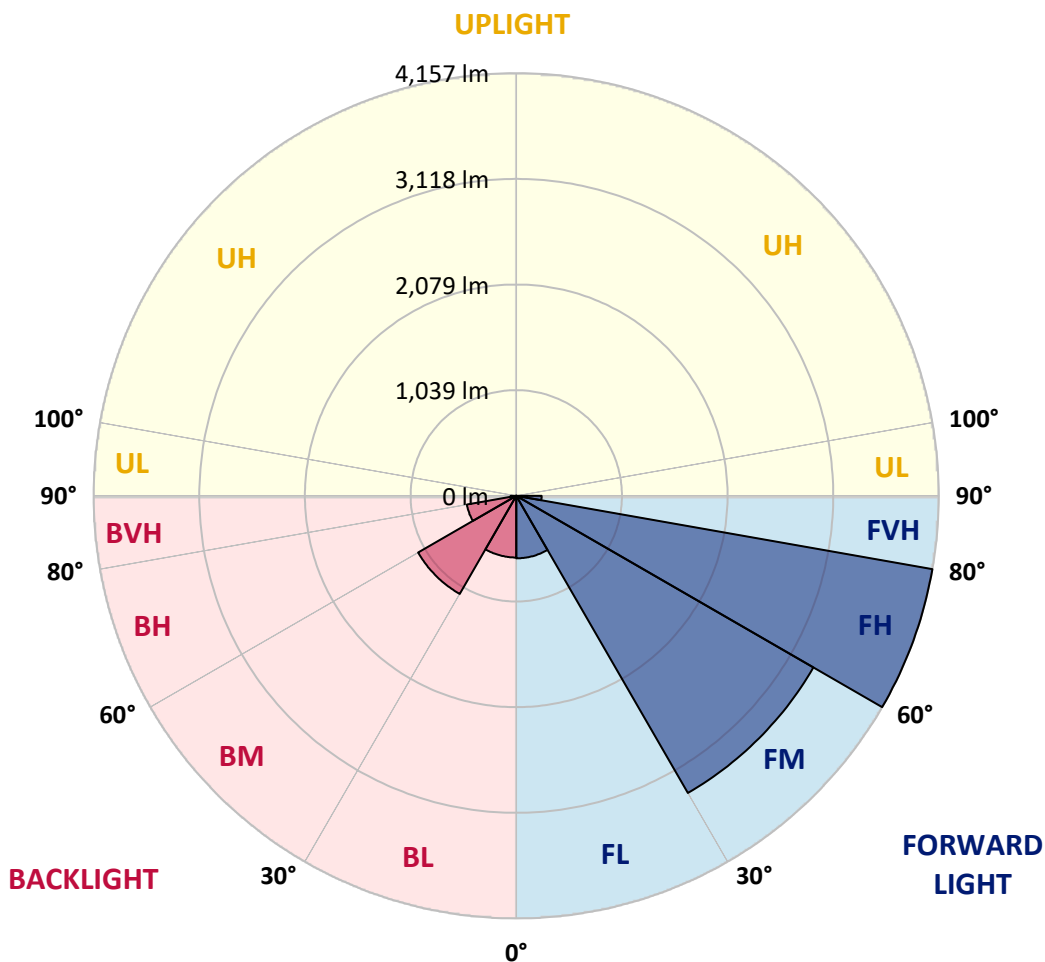


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.8	5.8			
FM (30°-60°)	3375.2	31.6			
FH (60°-80°)	4157.1	39.0			G2/5000
FVH (80°-90°)	249.1	2.3			G3/500
BL (0°-30°)	607.1	5.7	B2/1000		
BM (30°-60°)	1114.7	10.5	B2/2500		
BH (60°-80°)	493.0	4.6	B1/500		G1/500
BVH (80°-90°)	55.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5
2.5°	1505.0	1512.7	1516.8	1531.5	1535.1	1539.8	1552.3	1568.8	1590.1	1609.0	1625.5
5°	1379.7	1391.5	1398.7	1411.7	1437.0	1439.4	1472.5	1510.3	1553.5	1593.6	1626.7
7.5°	1260.9	1273.9	1279.9	1303.5	1337.2	1342.5	1390.9	1450.7	1522.7	1583.6	1634.4
10°	1171.8	1178.3	1191.3	1209.0	1249.1	1252.7	1315.9	1395.7	1489.0	1578.8	1647.4
12.5°	1123.3	1126.8	1129.8	1148.7	1188.3	1193.6	1259.8	1350.2	1462.5	1582.4	1668.7
15°	1130.3	1131.6	1118.5	1122.1	1154.0	1161.7	1227.3	1320.1	1445.9	1591.3	1700.6
17.5°	1190.1	1185.9	1154.0	1137.5	1159.9	1163.5	1220.8	1308.2	1438.2	1607.8	1733.6
20°	1284.0	1278.1	1223.1	1186.5	1199.5	1202.5	1242.1	1317.1	1445.9	1635.0	1785.1
22.5°	1401.0	1398.7	1315.3	1271.0	1270.4	1270.4	1291.1	1349.0	1469.0	1672.3	1838.9
25°	1564.7	1552.3	1443.5	1386.2	1370.2	1369.1	1366.7	1401.6	1498.5	1711.8	1902.7
27.5°	1732.5	1711.2	1614.3	1526.3	1492.0	1487.9	1472.5	1476.0	1536.3	1756.7	1975.4
30°	1883.2	1869.6	1778.6	1681.1	1640.3	1630.8	1588.3	1568.8	1599.5	1837.7	2091.2
32.5°	1998.4	1990.2	1919.2	1830.6	1770.3	1768.6	1706.5	1690.5	1698.2	1935.7	2223.5
35°	2091.8	2094.7	2058.7	1981.9	1912.7	1902.7	1861.3	1841.2	1818.8	2077.5	2390.2
37.5°	2219.4	2225.9	2223.5	2157.3	2072.8	2075.2	2065.7	2032.7	1973.0	2235.9	2575.1
40°	2360.0	2364.7	2364.1	2338.7	2294.4	2296.8	2293.3	2255.4	2166.2	2437.4	2780.7
42.5°	2554.4	2532.0	2473.5	2498.9	2524.9	2536.1	2560.3	2524.3	2401.9	2652.5	2973.9
45°	2771.9	2729.3	2597.0	2608.8	2705.1	2726.3	2859.9	2810.3	2657.8	2899.5	3201.5
47.5°	2908.9	2867.0	2755.3	2752.9	2880.6	2901.2	3137.6	3119.3	2890.6	3166.0	3479.2
50°	3031.2	3025.4	2899.5	2929.6	3054.3	3085.0	3440.2	3423.0	3122.8	3480.4	3781.7
52.5°	3212.6	3164.8	3064.3	3126.4	3291.3	3331.4	3740.3	3690.1	3336.1	3758.1	4075.4
55°	3294.2	3283.0	3277.1	3330.9	3557.2	3586.1	4032.2	3917.0	3518.2	3993.2	4298.7
57.5°	3512.2	3491.6	3550.0	3586.7	3870.3	3914.6	4337.1	4154.0	3677.7	4180.0	4407.4
60°	3794.7	3783.5	3837.2	3903.4	4220.1	4287.5	4684.5	4356.1	3805.9	4273.9	4347.8
62.5°	4216.6	4215.4	4205.3	4347.1	4715.9	4777.9	5083.4	4552.8	3826.0	4203.6	4039.3
65°	4821.6	4800.4	4713.0	4867.8	5332.8	5405.4	5498.9	4662.7	3704.8	3842.6	3401.2
67.5°	5454.5	5453.3	5382.4	5583.3	6218.5	6293.6	6018.2	4638.5	3368.6	3112.8	2415.6
70°	5979.2	5953.8	6044.2	6579.5	7350.1	7436.9	6472.6	4353.1	2683.3	2055.7	1435.2
72.5°	6105.1	6106.2	6294.1	7347.7	8436.7	8450.3	6636.3	3528.2	1795.7	1133.9	717.9
74°	5717.5	5727.5	6018.8	7386.1	8639.4	8577.9	6218.0	2773.1	1214.3	740.4	517.6
75°	5218.8	5155.5	5576.8	7130.2	8429.1	8362.8	5728.1	2225.3	926.5	591.5	453.2
77.5°	2790.1	2854.6	3504.6	5321.0	6847.8	6771.6	3883.9	1067.2	500.5	411.9	326.2
80°	993.3	1095.5	1539.8	2784.3	4390.3	4413.9	1853.6	489.2	352.2	303.7	230.4
82.5°	405.4	416.6	661.2	1235.6	2229.4	2250.7	756.9	290.7	251.7	209.1	137.7
85°	158.3	163.1	292.5	555.5	951.3	1013.4	261.8	153.6	154.8	120.0	70.3
87.5°	53.2	60.3	120.0	184.9	323.2	316.7	76.2	45.5	55.5	52.0	21.8
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°	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5
2.5°	1633.8	1645.0	1652.8	1661.0	1668.7	1671.0	1669.3	1674.6	1675.2	1675.8	1676.3
5°	1643.3	1658.6	1673.4	1681.6	1685.3	1682.3	1672.3	1666.9	1662.2	1658.6	1659.8
7.5°	1656.3	1678.1	1691.7	1695.3	1685.8	1672.3	1647.4	1627.9	1615.5	1607.2	1606.6
10°	1676.3	1697.6	1708.8	1698.8	1672.8	1639.7	1600.7	1564.1	1536.3	1528.0	1527.5
12.5°	1701.8	1726.0	1725.4	1695.8	1650.3	1591.3	1528.0	1485.5	1447.7	1428.7	1436.4
15°	1734.8	1753.1	1736.1	1682.8	1610.8	1529.8	1451.8	1393.9	1351.4	1331.3	1332.4
17.5°	1773.3	1789.2	1743.7	1659.8	1555.2	1451.2	1360.9	1305.9	1272.2	1257.4	1256.2
20°	1821.1	1825.9	1743.7	1619.6	1483.7	1359.6	1273.4	1234.9	1216.1	1208.4	1210.8
22.5°	1872.5	1863.1	1734.3	1562.9	1389.7	1263.9	1206.0	1188.9	1179.4	1178.3	1179.4
25°	1930.4	1903.9	1714.8	1486.1	1291.7	1181.2	1147.5	1150.5	1152.3	1152.3	1156.3
27.5°	2001.3	1948.2	1682.3	1389.2	1177.1	1104.3	1094.9	1115.6	1125.0	1126.8	1129.8
30°	2094.7	1996.6	1628.5	1268.1	1079.5	1035.2	1051.8	1079.5	1090.2	1096.7	1095.5
32.5°	2205.8	2049.8	1555.8	1146.9	1001.0	986.8	1006.9	1035.2	1047.0	1050.6	1045.9
35°	2336.4	2110.0	1460.1	1033.5	932.4	940.7	964.3	973.2	983.8	983.8	986.2
37.5°	2477.0	2158.5	1343.1	929.5	879.2	909.4	926.5	918.2	913.5	907.6	910.6
40°	2620.0	2194.6	1191.3	826.7	826.1	876.9	881.6	857.9	839.1	833.2	830.2
42.5°	2744.6	2217.0	1054.2	746.9	775.9	844.9	848.5	810.7	780.6	762.9	756.9
45°	2891.8	2243.0	920.0	680.7	729.1	819.6	828.4	777.6	733.3	696.1	686.6
47.5°	3093.3	2302.1	814.2	629.3	695.5	803.6	816.0	750.4	691.9	643.5	635.8
50°	3320.8	2383.1	732.1	594.5	669.5	789.4	804.8	722.6	653.5	599.8	593.8
52.5°	3529.4	2426.8	661.2	563.1	644.1	763.4	790.0	702.6	615.7	556.0	550.7
55°	3643.5	2355.9	591.5	532.4	609.2	729.8	769.4	674.8	579.1	533.0	525.3
57.5°	3658.8	2209.3	528.3	499.3	572.6	688.4	730.9	641.1	555.5	517.0	510.5
60°	3540.0	1990.7	479.2	472.1	535.3	641.7	687.8	611.6	531.2	499.3	492.8
62.5°	3244.6	1753.1	444.9	447.3	497.5	592.7	655.9	583.2	508.2	479.8	473.9
65°	2736.4	1447.1	411.9	421.9	463.8	554.3	626.9	559.6	485.1	465.0	459.7
67.5°	1900.9	1044.7	384.7	395.3	431.9	515.3	593.3	534.2	459.2	448.5	440.2
70°	1052.4	642.9	352.7	365.2	398.9	471.5	555.5	495.7	421.3	416.6	404.7
72.5°	553.1	409.5	316.7	330.3	353.9	415.4	497.5	453.8	384.1	364.0	348.6
74°	431.9	335.6	292.5	306.7	322.6	382.3	463.2	423.7	357.5	333.9	322.0
75°	376.4	299.0	271.8	290.1	304.3	359.9	436.7	402.4	342.7	320.2	309.6
77.5°	265.9	223.9	222.1	244.1	251.7	315.5	393.5	366.4	305.5	281.9	271.8
80°	186.7	167.8	176.1	189.6	200.3	278.9	365.2	316.7	250.6	222.8	219.2
82.5°	121.8	109.9	125.8	138.3	141.8	205.6	294.9	240.5	182.6	148.3	137.7
85°	56.1	55.0	72.1	70.3	69.7	100.5	174.9	140.6	105.2	78.6	73.8
87.5°	14.2	13.6	17.7	14.8	17.7	15.3	16.0	4.1	0.6	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)