

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: P458771

Luminaire Tested: **GALN-SA3A-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458771
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-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 12689 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

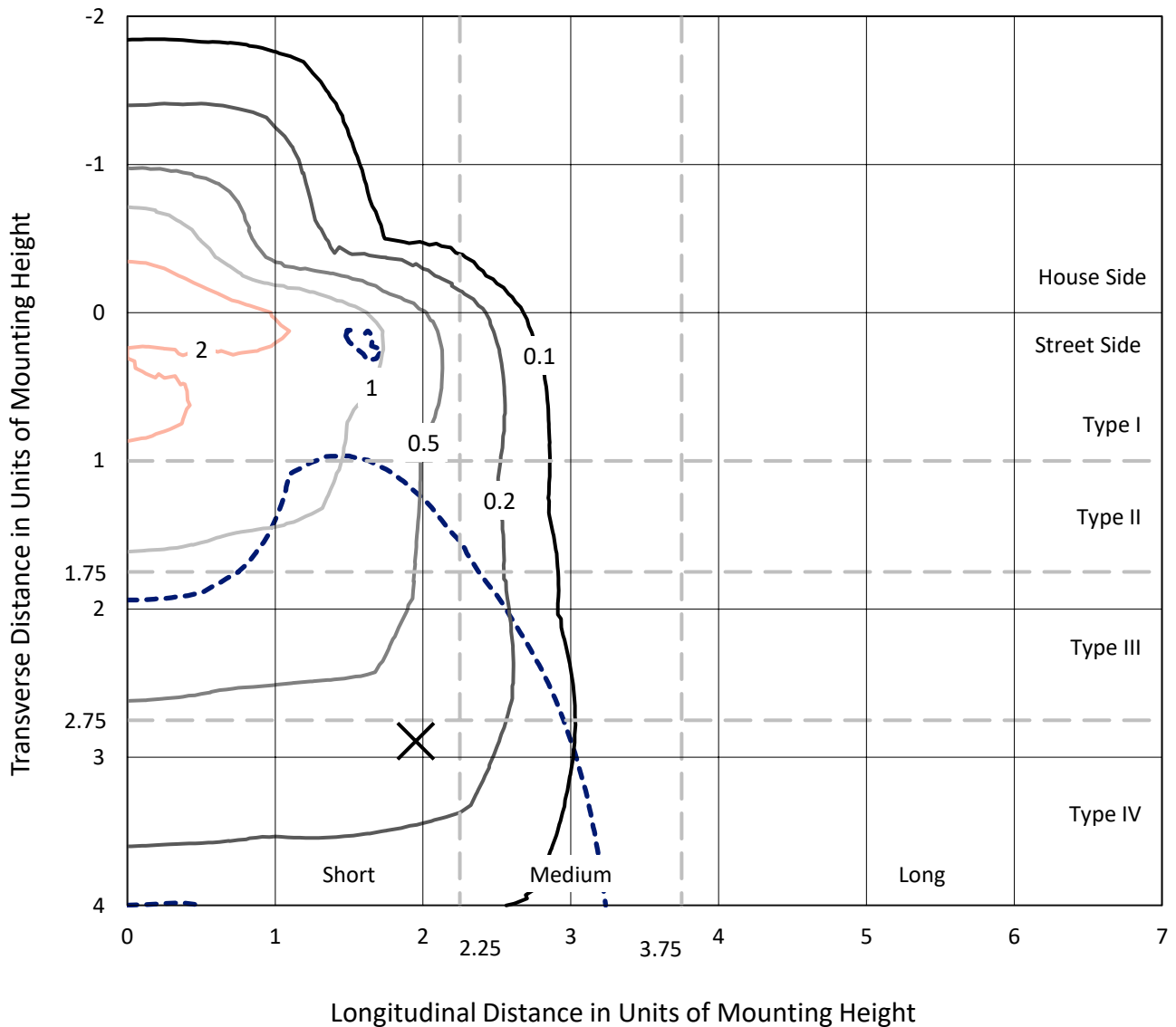
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

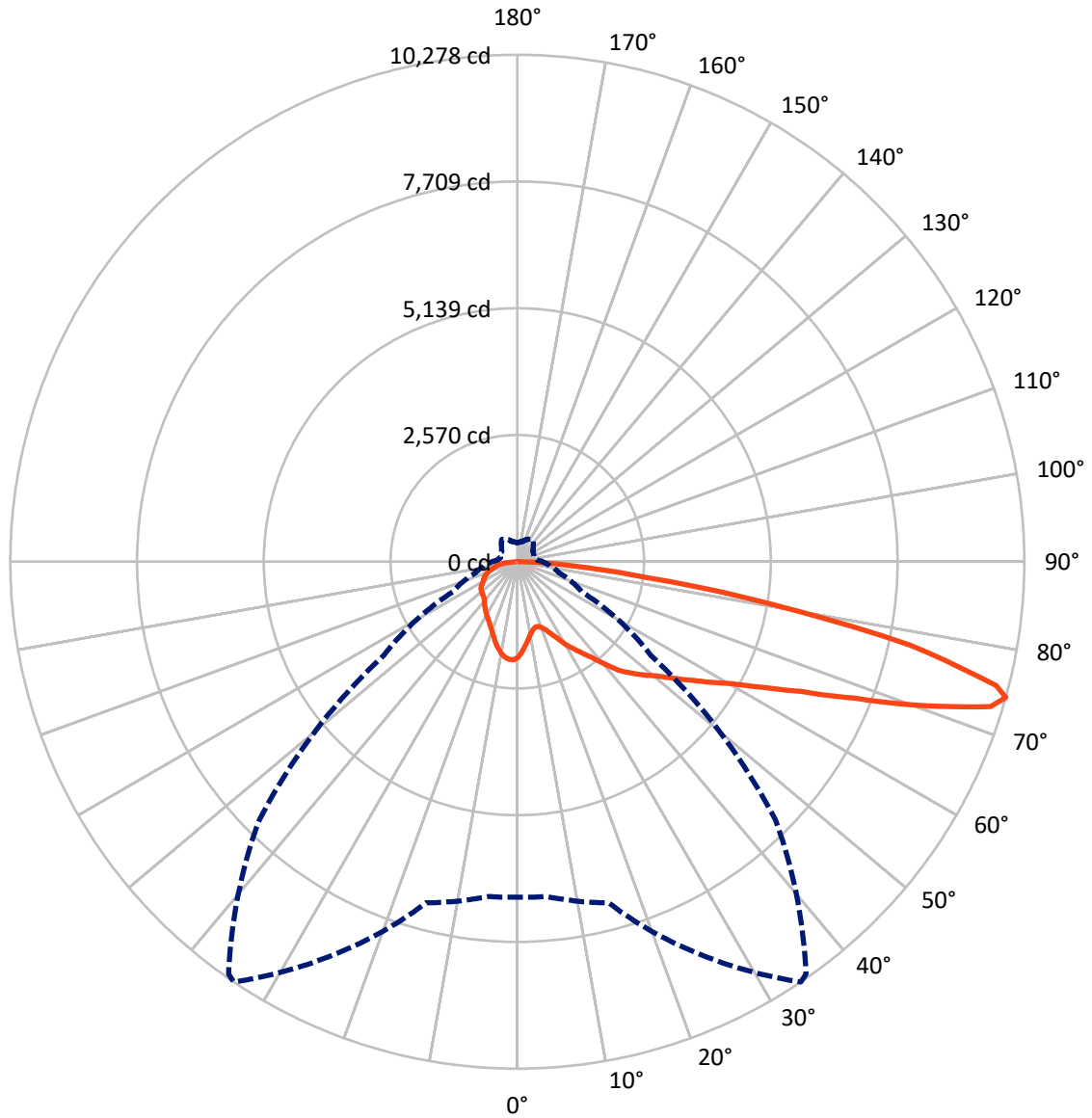
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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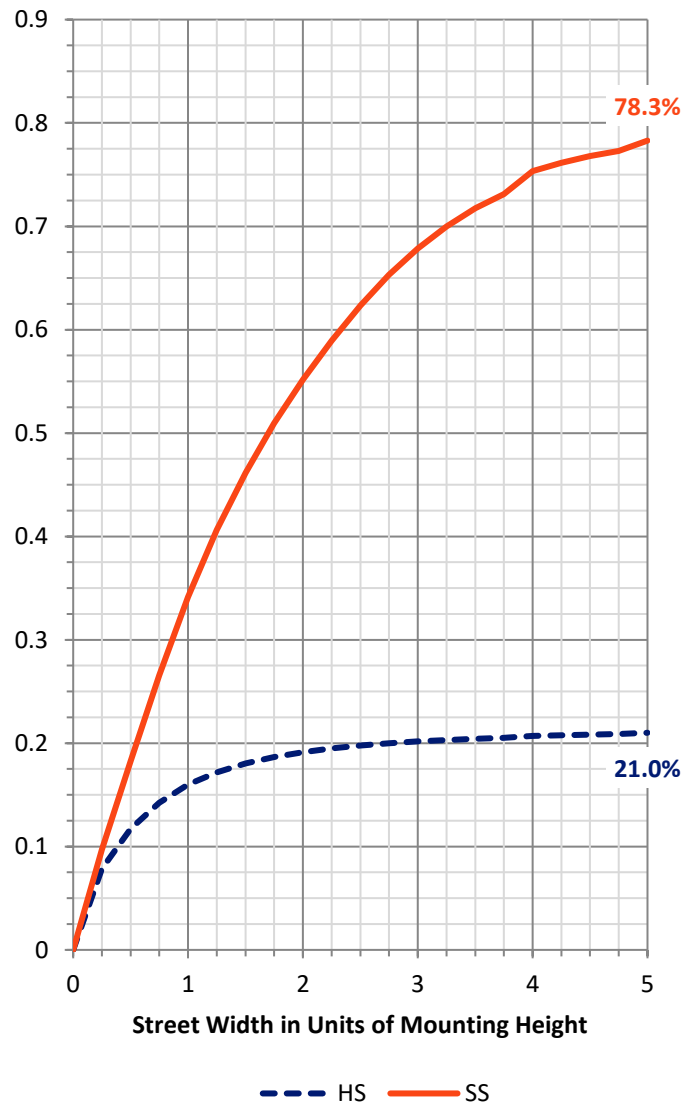
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2700.3	0.0	2700.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	9988.7	0.0	9988.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	12689.0	0.0	12689.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	1.4
10°-20°	482.3	3.8
20°-30°	795.2	6.3
30°-40°	1191.2	9.4
40°-50°	1731.6	13.6
50°-60°	2418.7	19.1
60°-70°	3028.0	23.9
70°-80°	2504.0	19.7
80°-90°	361.8	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°	12689.0	100.0
0°-180°	12689.0	100.0



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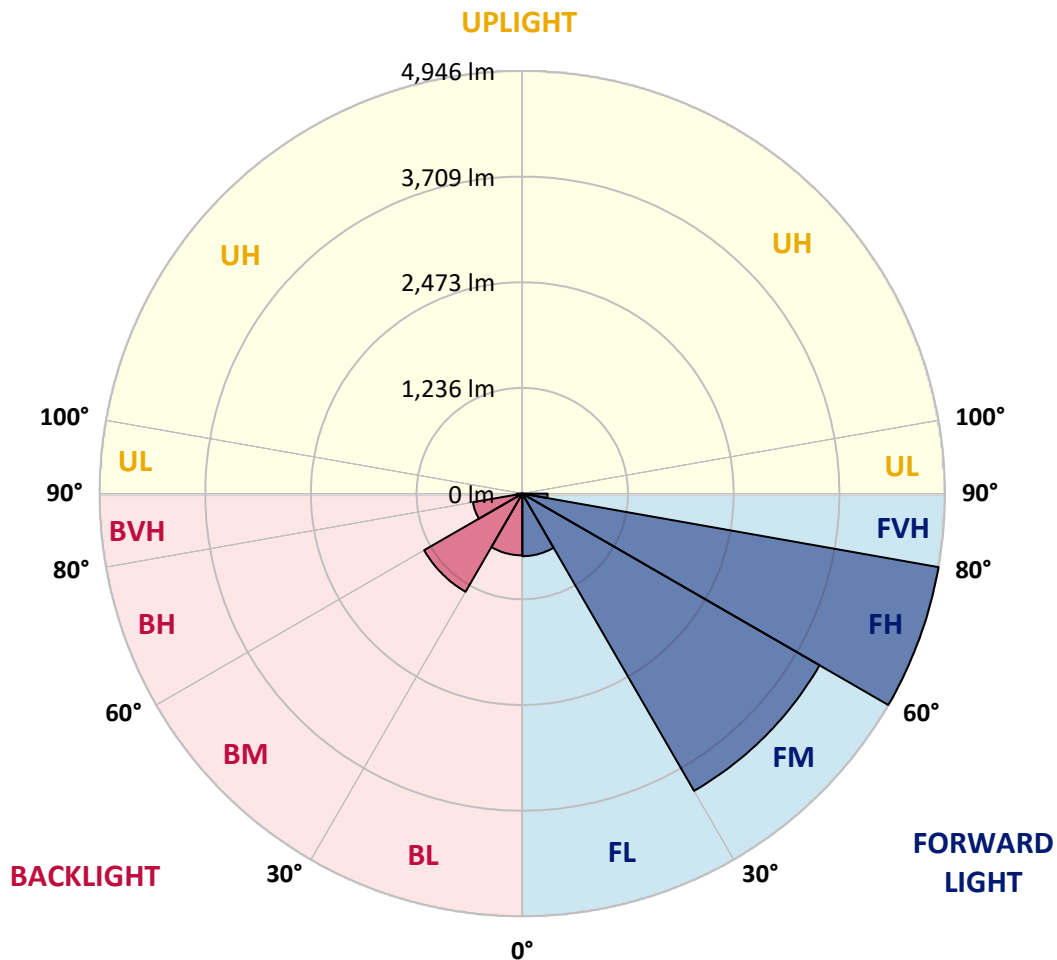
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.5	5.8			
FM (30°-60°)	4015.3	31.6			
FH (60°-80°)	4945.5	39.0			G2/5000
FVH (80°-90°)	296.4	2.3			G3/500
BL (0°-30°)	722.3	5.7	B2/1000		
BM (30°-60°)	1326.1	10.5	B2/2500		
BH (60°-80°)	586.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	65.4	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°	1937.4	1937.4	1937.4	1937.4	1937.4	1937.4	1937.4	1937.4	1937.4	1937.4	1937.4
2.5°	1790.4	1799.6	1804.5	1822.1	1826.3	1831.9	1846.7	1866.4	1891.7	1914.2	1933.8
5°	1641.4	1655.5	1663.9	1679.4	1709.6	1712.4	1751.8	1796.8	1848.1	1895.9	1935.3
7.5°	1500.1	1515.6	1522.6	1550.7	1590.8	1597.1	1654.8	1725.8	1811.5	1883.9	1944.4
10°	1394.0	1401.7	1417.2	1438.3	1486.1	1490.3	1565.5	1660.4	1771.5	1878.3	1959.9
12.5°	1336.3	1340.5	1344.1	1366.6	1413.7	1420.0	1498.7	1606.3	1739.8	1882.5	1985.2
15°	1344.8	1346.2	1330.7	1334.9	1372.9	1382.0	1460.0	1570.4	1720.1	1893.1	2023.1
17.5°	1415.8	1410.8	1372.9	1353.2	1379.9	1384.1	1452.3	1556.4	1711.0	1912.8	2062.5
20°	1527.5	1520.5	1455.1	1411.5	1427.0	1430.5	1477.6	1566.9	1720.1	1945.1	2123.6
22.5°	1666.7	1663.9	1564.8	1512.1	1511.4	1511.4	1536.0	1604.9	1747.6	1989.4	2187.6
25°	1861.4	1846.7	1717.3	1649.1	1630.2	1628.8	1625.9	1667.4	1782.7	2036.5	2263.5
27.5°	2061.1	2035.8	1920.5	1815.7	1775.0	1770.1	1751.8	1756.0	1827.7	2089.9	2350.0
30°	2240.3	2224.2	2115.9	1999.9	1951.4	1940.2	1889.6	1866.4	1902.9	2186.2	2487.8
32.5°	2377.4	2367.6	2283.2	2177.8	2106.1	2104.0	2030.2	2011.2	2020.3	2302.9	2645.2
35°	2488.5	2492.0	2449.1	2357.7	2275.5	2263.5	2214.3	2190.4	2163.7	2471.6	2843.5
37.5°	2640.3	2648.1	2645.2	2566.5	2466.0	2468.8	2457.6	2418.2	2347.2	2660.0	3063.5
40°	2807.6	2813.2	2812.5	2782.3	2729.6	2732.4	2728.2	2683.2	2577.1	2899.7	3308.1
42.5°	3038.9	3012.2	2942.6	2972.8	3003.8	3017.1	3045.9	3003.0	2857.5	3155.6	3538.0
45°	3297.6	3247.0	3089.5	3103.6	3218.2	3243.5	3402.3	3343.3	3161.9	3449.4	3808.6
47.5°	3460.7	3410.8	3277.9	3275.1	3426.9	3451.5	3732.7	3710.9	3438.9	3766.5	4139.0
50°	3606.2	3599.2	3449.4	3485.3	3633.6	3670.2	4092.6	4072.3	3715.1	4140.4	4498.9
52.5°	3822.0	3765.1	3645.6	3719.4	3915.5	3963.3	4449.7	4390.0	3968.9	4470.8	4848.3
55°	3919.0	3905.6	3898.6	3962.6	4231.8	4266.3	4797.0	4659.9	4185.4	4750.6	5114.0
57.5°	4178.4	4153.8	4223.4	4267.0	4604.4	4657.1	5159.7	4941.8	4375.2	4972.7	5243.4
60°	4514.4	4501.1	4565.0	4643.8	5020.5	5100.7	5573.1	5182.2	4527.8	5084.5	5172.4
62.5°	5016.3	5014.9	5003.0	5171.7	5610.3	5684.1	6047.6	5416.3	4551.7	5000.9	4805.4
65°	5736.2	5710.9	5606.8	5791.0	6344.2	6430.7	6541.8	5547.1	4407.6	4571.4	4046.2
67.5°	6489.0	6487.6	6403.3	6642.3	7398.0	7487.2	7159.7	5518.2	4007.6	3703.2	2873.7
70°	7113.3	7083.0	7190.6	7827.5	8744.1	8847.5	7700.2	5178.7	3192.1	2445.6	1707.5
72.5°	7263.0	7264.4	7487.9	8741.3	10036.9	10053.0	7895.0	4197.4	2136.3	1349.0	854.1
74°	6801.8	6813.8	7160.4	8787.0	10278.0	10204.9	7397.3	3299.0	1444.6	880.8	615.8
75°	6208.5	6133.3	6634.5	8482.6	10027.7	9949.0	6814.5	2647.3	1102.2	703.7	539.2
77.5°	3319.4	3396.0	4169.3	6330.2	8146.6	8055.9	4620.6	1269.5	595.4	490.0	388.0
80°	1181.7	1303.3	1831.9	3312.4	5223.0	5251.1	2205.2	582.1	419.0	361.3	274.2
82.5°	482.2	495.6	786.6	1469.9	2652.3	2677.6	900.5	345.9	299.5	248.8	163.8
85°	188.4	194.0	348.0	660.8	1131.8	1205.6	311.4	182.8	184.2	142.7	83.7
87.5°	63.3	71.7	142.7	220.0	384.5	376.8	90.7	54.1	66.1	61.9	26.0
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°	1937.4	1937.4	1937.4	1937.4	1937.4	1937.4	1937.4	1937.4	1937.4	1937.4	1937.4
2.5°	1943.7	1957.0	1966.2	1976.0	1985.2	1988.0	1985.9	1992.2	1992.9	1993.6	1994.3
5°	1954.9	1973.2	1990.8	2000.6	2004.8	2001.3	1989.4	1983.1	1977.4	1973.2	1974.6
7.5°	1970.4	1996.4	2012.6	2016.8	2005.5	1989.4	1959.9	1936.7	1921.9	1912.1	1911.3
10°	1994.3	2019.6	2033.0	2021.0	1990.1	1950.7	1904.3	1860.7	1827.7	1817.9	1817.2
12.5°	2024.5	2053.3	2052.6	2017.5	1963.4	1893.1	1817.9	1767.2	1722.3	1699.8	1708.9
15°	2063.9	2085.7	2065.3	2002.0	1916.3	1820.0	1727.2	1658.3	1607.7	1583.8	1585.2
17.5°	2109.6	2128.6	2074.4	1974.6	1850.2	1726.5	1618.9	1553.5	1513.5	1495.9	1494.5
20°	2166.5	2172.1	2074.4	1926.8	1765.1	1617.5	1514.9	1469.2	1446.7	1437.6	1440.4
22.5°	2227.7	2216.4	2063.2	1859.3	1653.4	1503.6	1434.7	1414.4	1403.1	1401.7	1403.1
25°	2296.6	2264.9	2040.0	1767.9	1536.7	1405.2	1365.1	1368.7	1370.8	1370.8	1375.7
27.5°	2380.9	2317.7	2001.3	1652.7	1400.3	1313.8	1302.6	1327.2	1338.4	1340.5	1344.1
30°	2492.0	2375.3	1937.4	1508.6	1284.3	1231.6	1251.3	1284.3	1297.0	1304.7	1303.3
32.5°	2624.2	2438.6	1850.9	1364.4	1190.8	1173.9	1197.8	1231.6	1245.6	1249.9	1244.2
35°	2779.5	2510.3	1737.0	1229.5	1109.3	1119.1	1147.2	1157.8	1170.4	1170.4	1173.2
37.5°	2946.8	2567.9	1597.8	1105.8	1046.0	1081.9	1102.2	1092.4	1086.8	1079.7	1083.3
40°	3116.9	2610.8	1417.2	983.4	982.7	1043.2	1048.8	1020.7	998.2	991.2	987.7
42.5°	3265.3	2637.5	1254.1	888.5	923.0	1005.2	1009.5	964.5	928.6	907.5	900.5
45°	3440.3	2668.4	1094.5	809.8	867.5	975.0	985.6	925.1	872.4	828.1	816.8
47.5°	3680.0	2738.7	968.7	748.7	827.4	956.0	970.8	892.8	823.2	765.5	756.4
50°	3950.6	2835.0	871.0	707.2	796.5	939.2	957.4	859.7	777.5	713.5	706.5
52.5°	4198.8	2887.1	786.6	669.9	766.2	908.2	939.9	835.8	732.5	661.5	655.2
55°	4334.5	2802.7	703.7	633.4	724.8	868.2	915.3	802.8	688.9	634.1	624.9
57.5°	4352.7	2628.4	628.4	594.0	681.2	818.9	869.6	762.7	660.8	615.1	607.4
60°	4211.4	2368.3	570.1	561.7	636.9	763.4	818.2	727.6	632.0	594.0	586.3
62.5°	3860.0	2085.7	529.3	532.1	591.9	705.1	780.3	693.8	604.5	570.8	563.8
65°	3255.4	1721.6	490.0	501.9	551.8	659.4	745.8	665.7	577.1	553.2	546.9
67.5°	2261.4	1242.8	457.6	470.3	513.9	613.0	705.8	635.5	546.2	533.5	523.7
70°	1252.0	764.8	419.7	434.4	474.5	561.0	660.8	589.8	501.2	495.6	481.5
72.5°	658.0	487.2	376.8	393.0	421.1	494.2	591.9	539.9	456.9	433.0	414.7
74°	513.9	399.3	348.0	364.8	383.8	454.8	551.1	504.0	425.3	397.2	383.1
75°	447.8	355.7	323.4	345.2	362.0	428.1	519.5	478.7	407.7	381.0	368.4
77.5°	316.3	266.4	264.3	290.3	299.5	375.4	468.2	435.8	363.4	335.3	323.4
80°	222.1	199.6	209.5	225.7	238.3	331.8	434.4	376.8	298.1	265.0	260.8
82.5°	144.8	130.8	149.7	164.5	168.7	244.6	350.8	286.1	217.2	176.4	163.8
85°	66.8	65.4	85.8	83.7	82.9	119.5	208.1	167.3	125.1	93.5	87.9
87.5°	16.9	16.2	21.1	17.6	21.1	18.3	19.0	4.9	0.7	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)