

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: P451403

Luminaire Tested: **GALN-SA2B-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10664 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

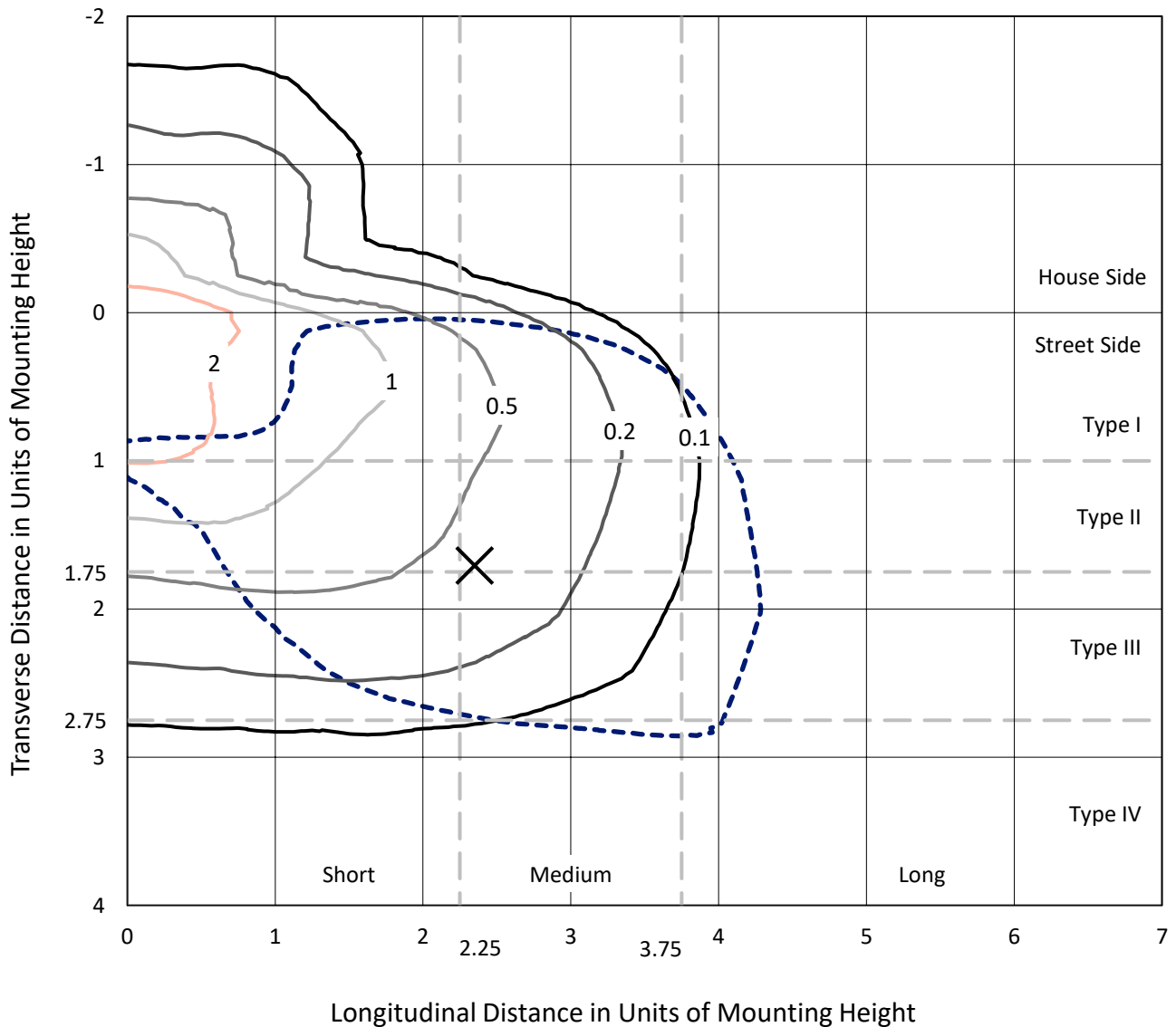
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

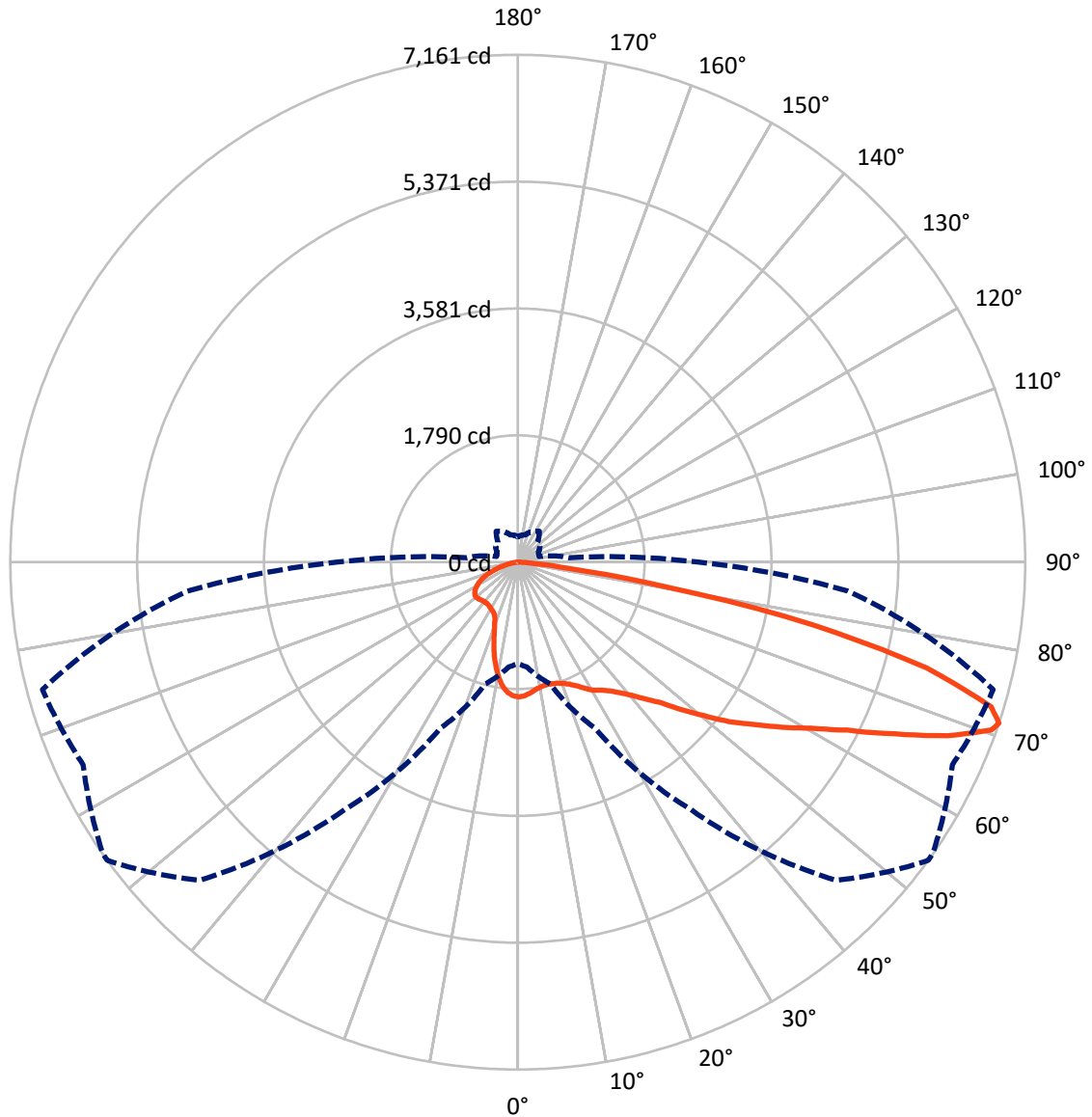
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: GALN-SA2B-730-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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CATALOG NUMBER: GALN-SA2B-730-U-T3R

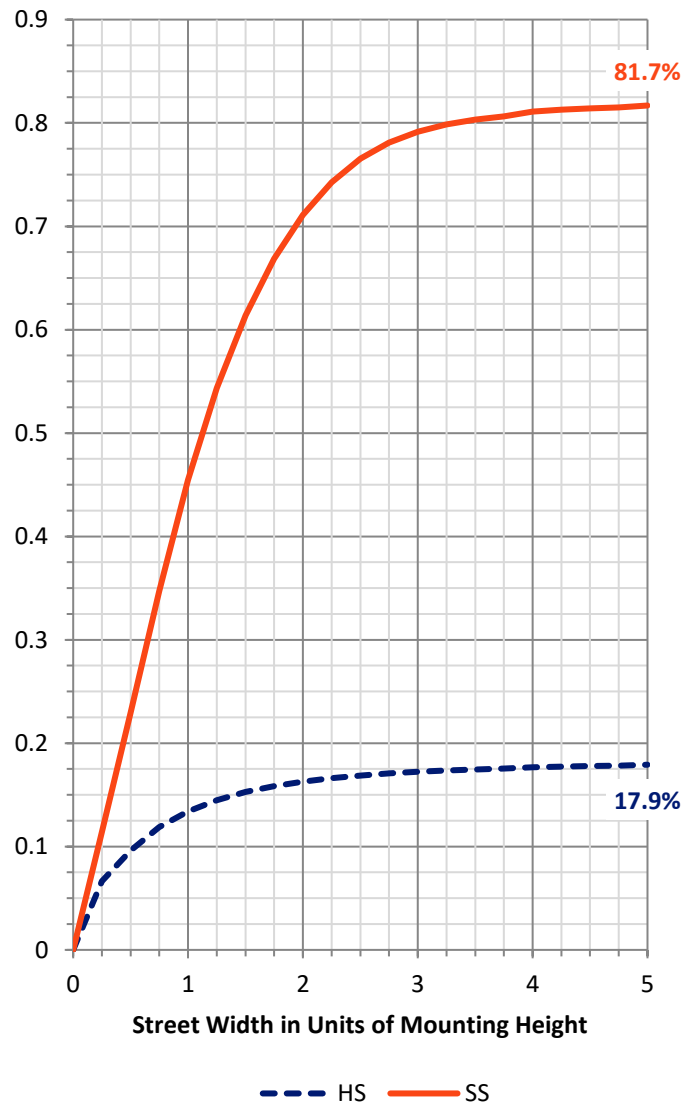
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1925.3	0.0	1925.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8738.7	0.0	8738.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	10664.0	0.0	10664.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	1.6
10°-20°	447.7	4.2
20°-30°	745.4	7.0
30°-40°	1102.3	10.3
40°-50°	1552.6	14.6
50°-60°	2079.0	19.5
60°-70°	2620.4	24.6
70°-80°	1789.7	16.8
80°-90°	157.4	1.5
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°	10664.0	100.0
0°-180°	10664.0	100.0

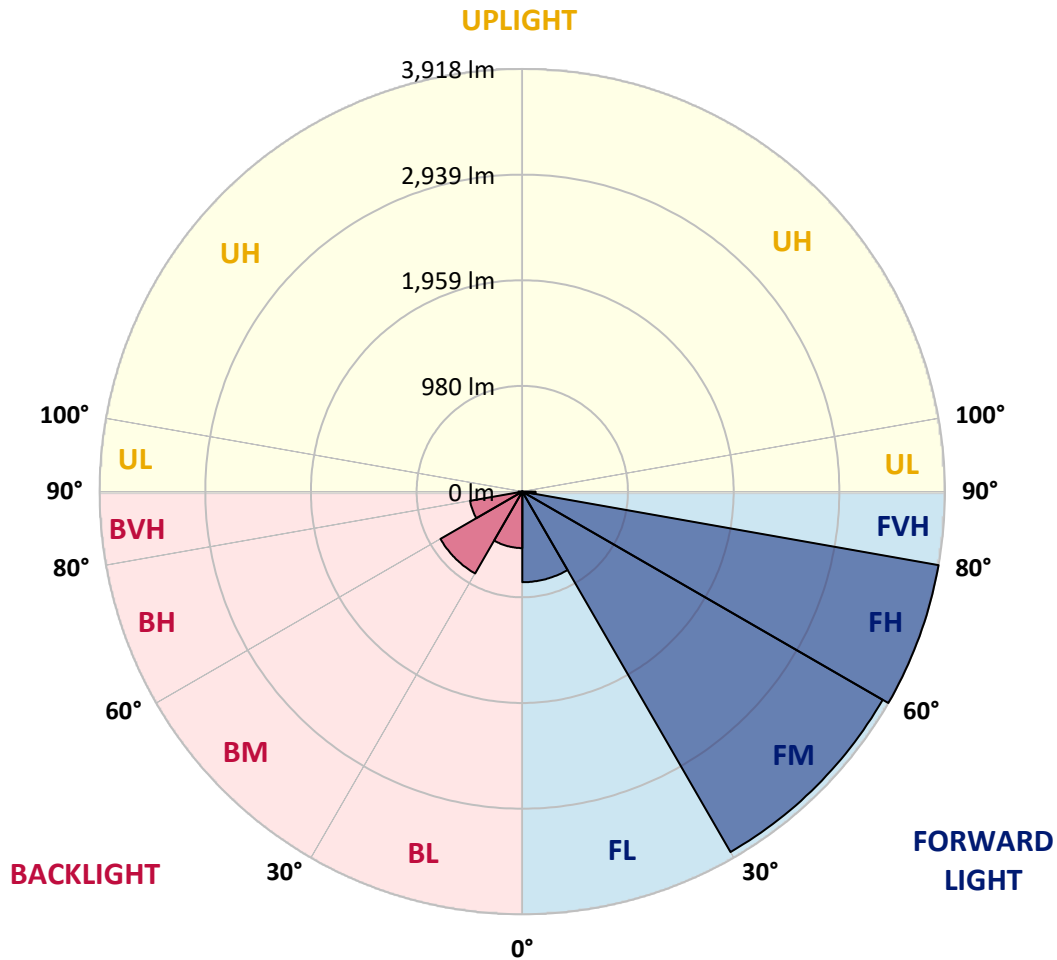


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	839.4	7.9			
FM (30°-60°)	3857.8	36.2			
FH (60°-80°)	3918.4	36.7			G2/5000
FVH (80°-90°)	123.0	1.2			G2/225
BL (0°-30°)	523.3	4.9	B2/1000		
BM (30°-60°)	876.0	8.2	B1/1000		
BH (60°-80°)	491.7	4.6	B1/500		G1/500
BVH (80°-90°)	34.4	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6
2.5°	1838.1	1846.7	1849.0	1854.8	1866.9	1876.7	1886.5	1885.3	1899.2	1904.9	1910.1
5°	1756.3	1758.6	1767.2	1778.8	1800.1	1827.2	1853.7	1854.2	1888.2	1915.3	1928.5
7.5°	1696.4	1703.9	1709.6	1721.7	1744.2	1773.6	1815.6	1819.1	1879.6	1933.1	1961.4
10°	1657.2	1665.9	1672.2	1687.2	1709.6	1742.5	1788.0	1794.3	1873.2	1961.4	2010.9
12.5°	1621.5	1630.2	1635.9	1655.5	1684.9	1725.2	1776.5	1784.0	1875.5	1994.2	2065.1
15°	1643.4	1650.3	1648.0	1653.8	1673.4	1719.4	1781.1	1788.6	1884.2	2025.9	2118.6
17.5°	1740.8	1746.5	1727.5	1705.6	1696.4	1730.4	1795.5	1803.5	1901.5	2058.7	2173.3
20°	1884.2	1899.7	1858.3	1809.3	1764.9	1769.6	1825.4	1834.1	1925.7	2091.6	2229.2
22.5°	2070.8	2082.3	2031.6	1951.0	1869.2	1827.2	1870.4	1875.5	1961.9	2134.2	2290.3
25°	2290.3	2297.2	2226.9	2123.2	2005.1	1925.7	1932.0	1941.2	2021.9	2182.6	2344.4
27.5°	2503.4	2525.3	2444.1	2317.4	2161.8	2029.3	2016.7	2022.4	2086.9	2209.6	2381.9
30°	2756.3	2754.6	2668.7	2521.8	2322.5	2142.2	2096.7	2095.6	2122.1	2222.9	2408.9
32.5°	2957.9	2981.5	2897.4	2737.3	2506.3	2259.2	2152.0	2149.7	2149.2	2245.9	2449.3
35°	3187.2	3190.6	3113.4	2952.1	2705.0	2406.1	2229.2	2217.7	2204.5	2295.5	2504.0
37.5°	3392.2	3408.3	3337.5	3156.6	2900.3	2558.7	2335.2	2327.7	2287.4	2381.3	2591.5
40°	3552.4	3564.5	3521.8	3349.6	3092.7	2723.5	2470.0	2456.2	2407.2	2521.8	2708.5
42.5°	3604.8	3629.5	3646.2	3561.6	3313.9	2918.7	2635.9	2618.6	2581.2	2735.0	2843.3
45°	3608.8	3648.0	3736.1	3740.1	3536.2	3152.6	2829.4	2817.3	2814.5	3008.0	3032.8
47.5°	3578.3	3618.0	3766.1	3846.1	3734.4	3388.8	3108.8	3089.8	3091.5	3345.6	3245.3
50°	3504.5	3551.8	3731.5	3914.1	3889.3	3634.2	3403.7	3397.4	3433.1	3730.9	3466.0
52.5°	3365.7	3422.7	3695.8	3956.7	4004.5	3845.6	3739.0	3721.1	3811.6	4149.1	3707.3
55°	2981.5	3067.3	3565.0	3980.3	4114.0	4047.7	4040.8	4073.1	4192.9	4605.3	3972.9
57.5°	2781.1	2845.6	3281.0	3984.4	4252.2	4282.8	4393.4	4401.4	4611.1	5089.8	4273.0
60°	2671.6	2728.6	3125.5	3957.9	4445.2	4573.7	4753.9	4782.7	5019.5	5614.5	4584.0
62.5°	2576.0	2625.0	3032.2	3866.3	4662.9	5005.1	5221.1	5234.9	5483.2	6194.0	4891.0
65°	2350.8	2406.6	2844.4	3774.7	4850.7	5544.3	5840.9	5824.8	5976.9	6694.0	5083.4
67.5°	2047.2	2118.0	2493.6	3458.5	4943.5	6133.5	6539.1	6518.9	6464.2	7021.8	5138.7
70°	1659.5	1697.6	2044.9	2911.8	4573.1	6442.9	7090.3	7069.0	6766.0	7065.0	4877.2
71°	1428.0	1487.3	1780.5	2586.4	4264.9	6348.4	7161.2	7155.4	6766.6	6945.7	4680.2
72.5°	1114.6	1150.9	1410.1	2004.0	3624.9	5811.5	6986.0	7007.9	6619.7	6614.5	4274.1
75°	705.1	721.2	884.8	1179.7	1989.0	4115.7	5963.6	6022.9	5877.8	5414.1	3178.5
77.5°	409.6	430.3	529.9	695.3	859.4	2233.8	4267.2	4331.7	4084.0	2980.9	1301.2
80°	238.5	261.5	349.1	403.8	394.6	828.9	2172.8	2282.8	1768.4	752.9	365.2
82.5°	132.5	148.0	245.4	246.0	210.2	270.7	683.7	715.4	504.6	303.6	149.2
85°	96.2	108.9	158.4	143.4	100.8	116.4	237.9	249.4	203.9	127.9	48.4
87.5°	34.0	48.4	87.0	69.1	27.6	24.2	68.5	55.9	51.8	35.7	10.9
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°	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6
2.5°	1913.0	1914.1	1908.4	1898.0	1887.6	1874.4	1859.4	1847.9	1842.7	1842.1	1841.6
5°	1933.7	1936.6	1914.7	1882.5	1846.7	1803.0	1765.5	1722.9	1712.0	1694.7	1699.9
7.5°	1967.1	1965.4	1922.2	1853.7	1770.1	1677.4	1599.0	1553.5	1506.3	1493.1	1493.6
10°	2014.9	2004.0	1922.2	1794.9	1655.5	1517.8	1408.4	1339.3	1301.8	1270.7	1259.2
12.5°	2065.6	2038.0	1903.8	1712.5	1508.0	1339.3	1221.8	1128.4	1104.2	1078.9	1079.5
15°	2114.0	2067.9	1867.5	1596.7	1349.1	1148.6	1034.5	978.7	971.2	974.1	973.5
17.5°	2157.8	2089.2	1812.2	1467.7	1163.6	985.0	924.5	928.6	948.7	963.1	964.8
20°	2202.1	2101.9	1729.8	1294.9	988.5	885.9	888.2	919.9	950.4	970.0	972.9
22.5°	2244.2	2107.7	1633.0	1127.9	861.7	843.9	877.9	911.8	941.8	960.8	963.7
25°	2271.8	2094.4	1495.9	953.3	799.5	828.9	864.6	893.4	918.8	938.3	943.0
27.5°	2279.3	2051.8	1326.0	812.2	770.7	814.5	847.3	868.6	888.2	906.7	910.1
30°	2275.3	1989.0	1139.4	729.2	754.0	797.8	823.1	838.7	862.3	876.7	879.6
32.5°	2269.0	1915.9	944.7	684.9	740.2	782.2	797.2	811.0	810.5	804.7	808.7
35°	2271.3	1828.3	786.9	658.4	728.1	770.7	783.4	766.1	716.6	714.3	712.0
37.5°	2283.4	1741.9	672.2	640.0	721.8	769.0	775.9	696.4	652.6	632.5	627.3
40°	2314.5	1641.1	596.8	626.1	721.2	782.2	741.9	661.3	577.2	538.0	535.1
42.5°	2355.9	1542.0	550.7	617.5	728.1	802.4	728.1	611.7	520.2	497.1	493.7
45°	2417.6	1428.5	525.3	613.5	738.5	809.9	723.5	575.5	497.1	478.7	478.7
47.5°	2487.3	1320.3	511.5	610.6	751.7	804.7	682.6	563.9	486.2	488.5	499.4
50°	2556.4	1226.4	501.1	604.3	763.2	801.8	665.9	563.4	489.0	518.4	538.0
52.5°	2636.5	1160.1	488.5	593.9	763.2	783.4	660.7	574.9	497.1	505.8	514.4
55°	2733.2	1139.4	472.3	571.4	749.4	737.3	657.8	591.6	502.9	482.7	486.2
57.5°	2861.1	1172.8	456.8	543.2	717.7	689.5	656.7	596.2	489.6	472.9	469.5
60°	3009.7	1239.0	452.2	514.4	674.5	648.6	649.8	582.9	471.2	453.9	456.8
62.5°	3114.0	1278.8	449.3	492.5	627.3	603.7	633.1	566.8	463.1	448.1	451.0
65°	3114.0	1230.4	422.8	459.1	566.2	549.5	612.9	546.6	452.8	435.5	432.6
67.5°	2995.9	1089.3	382.5	409.0	498.8	487.9	584.7	522.5	437.2	424.0	417.0
70°	2688.3	826.0	331.8	350.2	413.6	423.4	548.4	489.6	411.3	395.2	384.8
71°	2552.9	719.5	310.5	320.3	380.8	395.2	531.1	475.8	399.8	376.7	358.3
72.5°	2292.0	606.0	278.2	282.3	325.5	351.4	494.8	449.3	377.9	345.0	324.3
75°	1741.3	442.4	224.1	221.8	240.8	278.8	418.8	400.3	331.2	286.9	274.8
77.5°	752.3	240.8	167.6	169.4	163.6	211.4	329.5	343.9	284.0	233.3	222.3
80°	228.1	138.8	114.6	116.9	109.4	141.7	232.1	269.6	228.1	181.4	166.5
82.5°	116.9	82.9	78.3	77.2	69.7	80.1	140.6	184.3	163.0	113.5	100.2
85°	50.7	44.4	38.6	37.4	32.8	28.8	50.1	92.2	86.4	63.4	60.5
87.5°	12.7	11.5	7.5	6.9	4.0	0.6	0.0	0.0	0.0	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)