

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: P652252

Luminaire Tested: **GALN-SA2B-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652252
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-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 9848.1 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

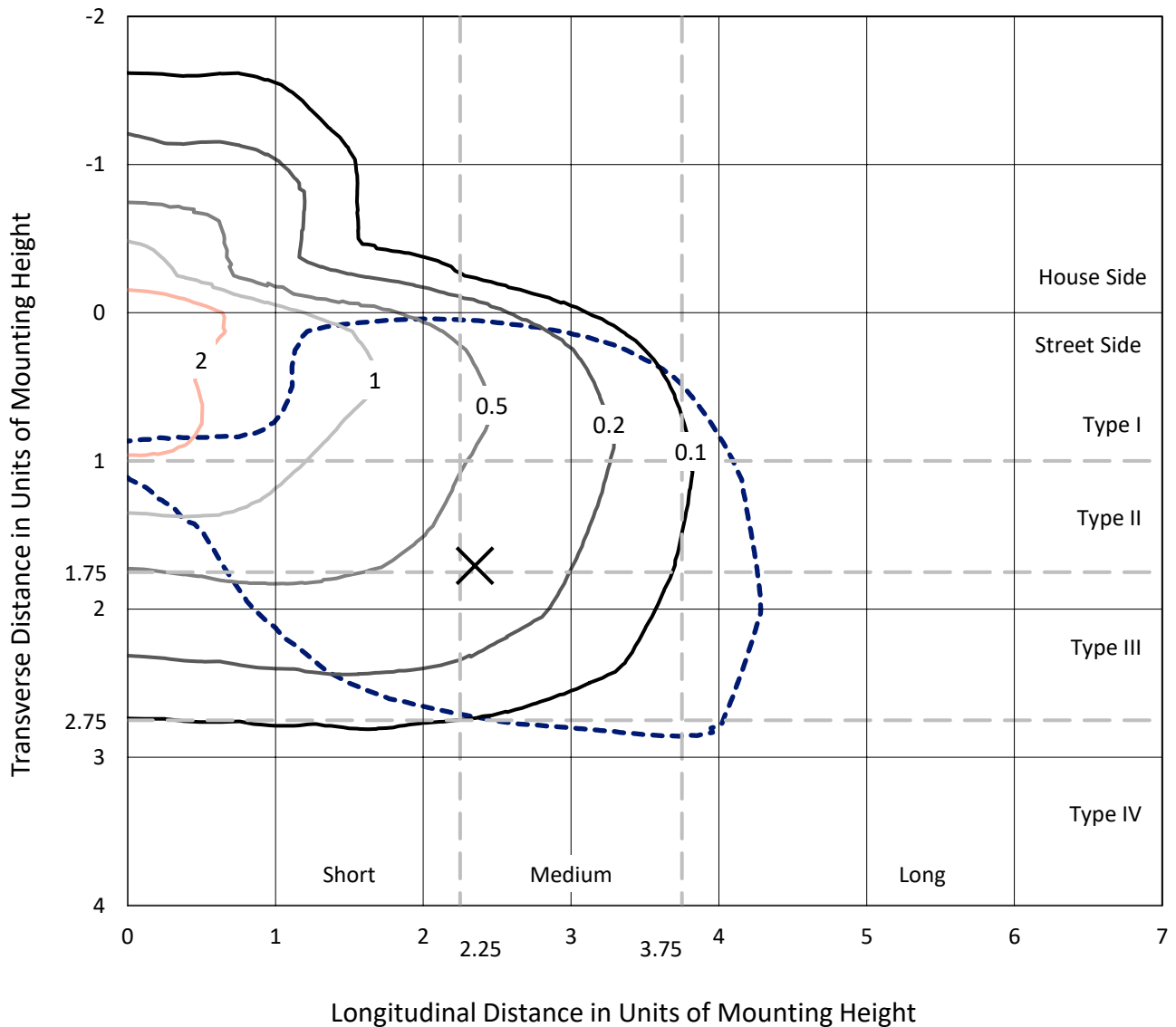
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

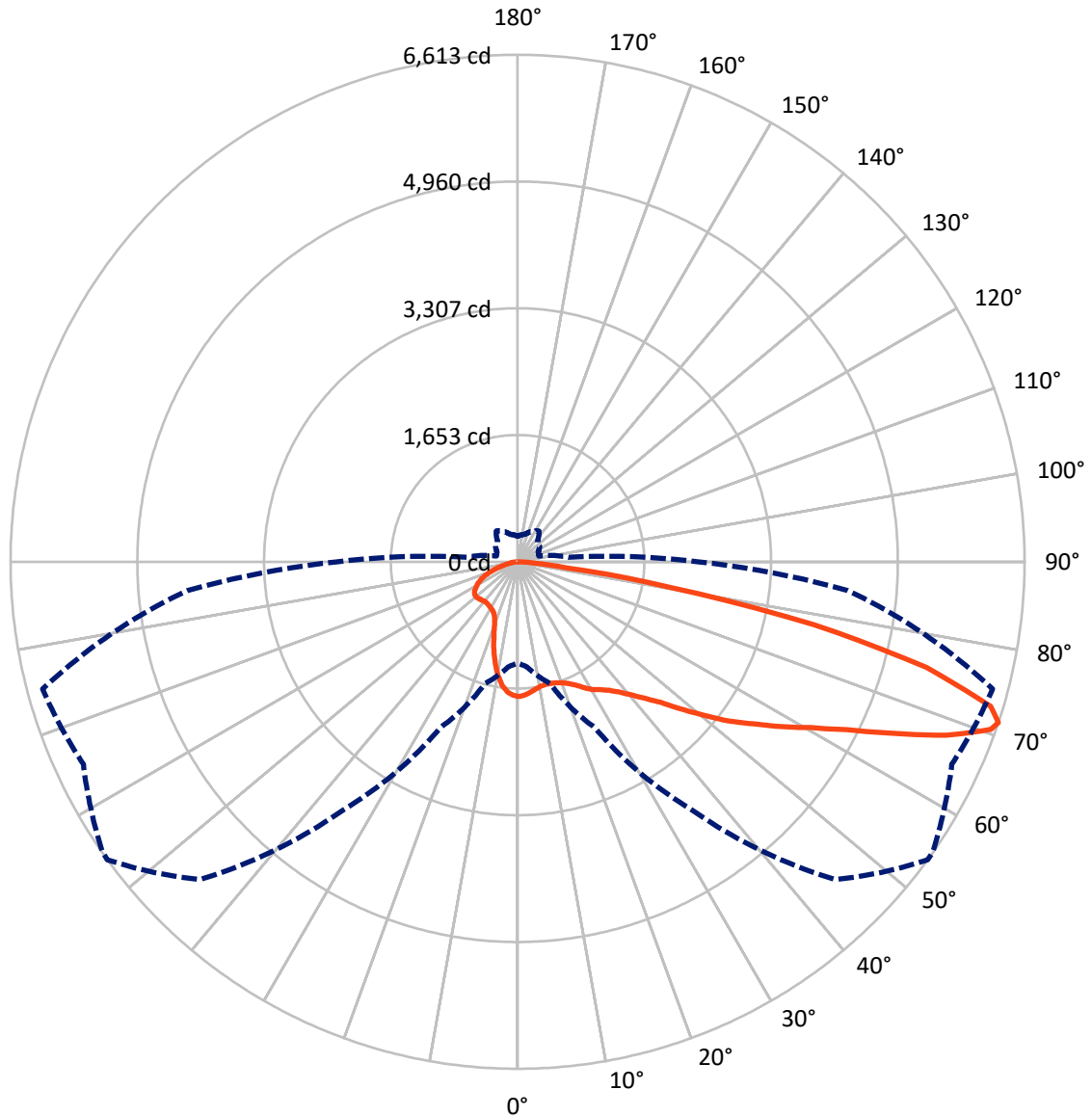
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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



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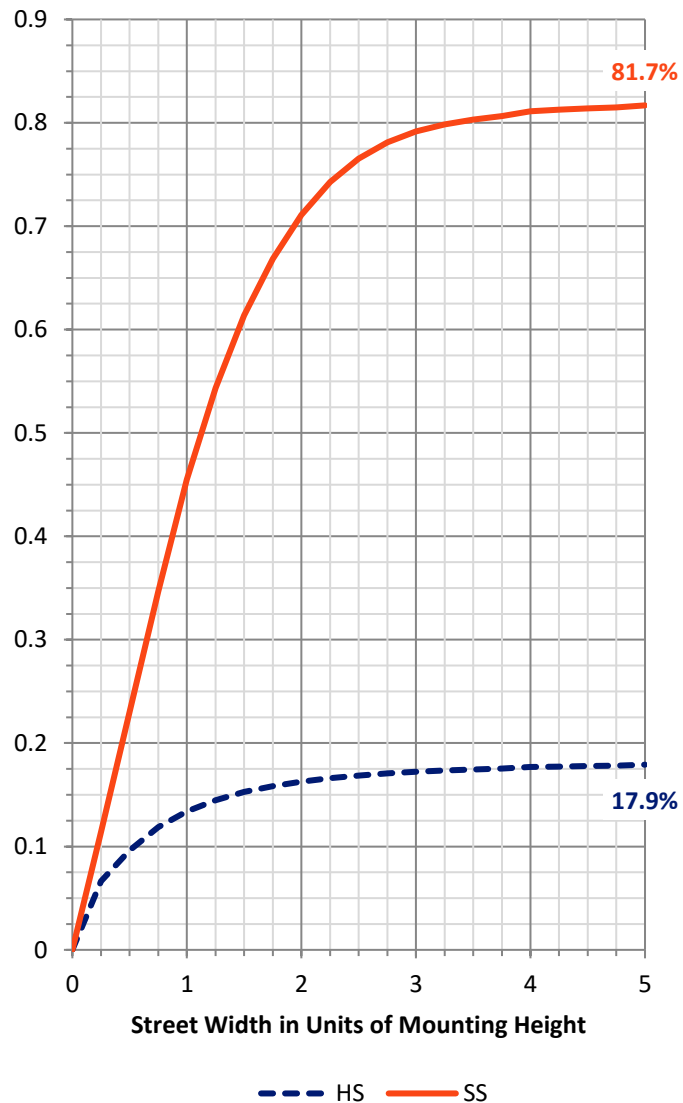
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1778.0	0.0	1778.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8070.1	0.0	8070.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	9848.1	0.0	9848.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	1.6
10°-20°	413.4	4.2
20°-30°	688.4	7.0
30°-40°	1017.9	10.3
40°-50°	1433.8	14.6
50°-60°	1919.9	19.5
60°-70°	2419.9	24.6
70°-80°	1652.8	16.8
80°-90°	145.4	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°	9848.1	100.0
0°-180°	9848.1	100.0

Coefficient of Utilization

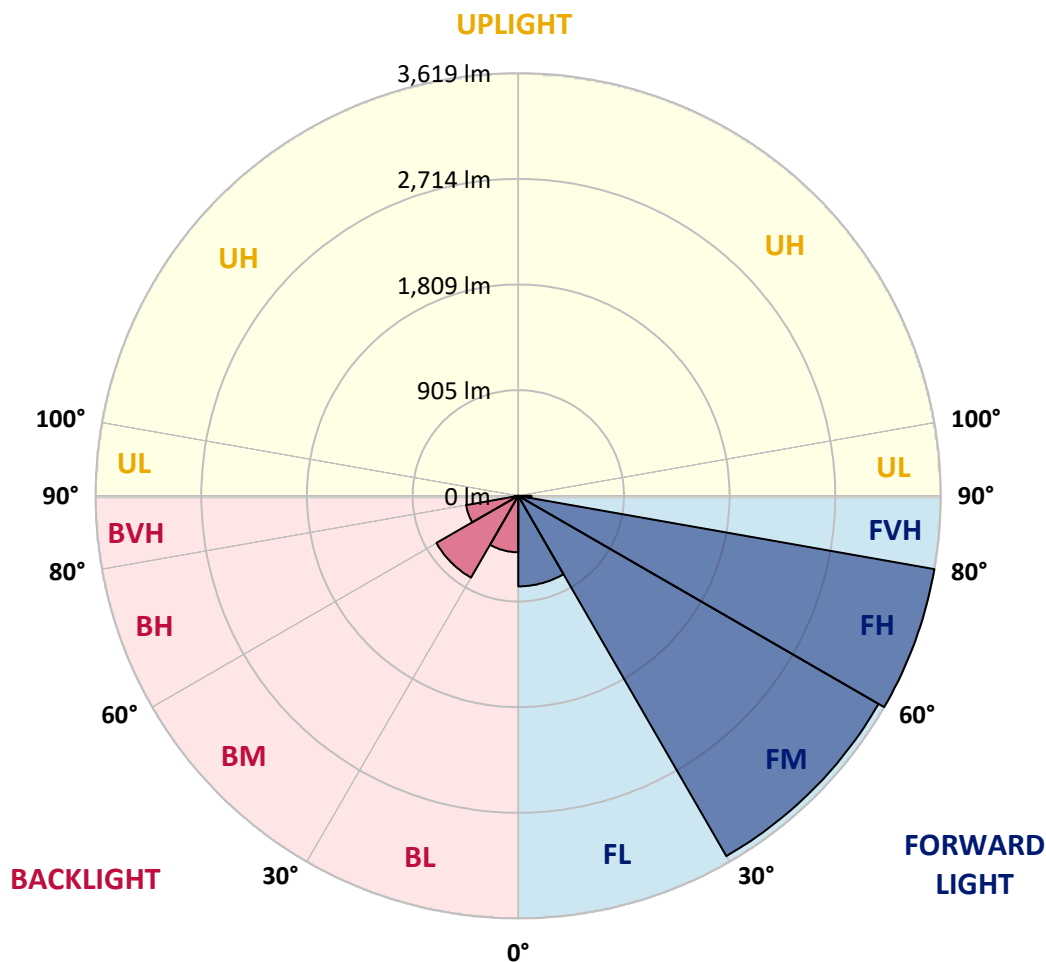


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.2	7.9			
FM (30°-60°)	3562.7	36.2			
FH (60°-80°)	3618.6	36.7			G2/5000
FVH (80°-90°)	113.6	1.2			G2/225
BL (0°-30°)	483.2	4.9	B1/500		
BM (30°-60°)	808.9	8.2	B1/1000		
BH (60°-80°)	454.1	4.6	B1/500		G1/500
BVH (80°-90°)	31.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1757.0	1757.0	1757.0	1757.0	1757.0	1757.0	1757.0	1757.0	1757.0	1757.0	1757.0
2.5°	1697.5	1705.5	1707.6	1712.9	1724.0	1733.1	1742.1	1741.1	1753.8	1759.2	1764.0
5°	1622.0	1624.1	1632.0	1642.6	1662.3	1687.4	1711.9	1712.4	1743.7	1768.8	1781.0
7.5°	1566.6	1573.5	1578.8	1590.0	1610.8	1637.9	1676.7	1679.9	1735.7	1785.3	1811.3
10°	1530.5	1538.4	1544.2	1558.1	1578.8	1609.2	1651.2	1657.0	1729.9	1811.3	1857.1
12.5°	1497.5	1505.5	1510.8	1528.9	1555.9	1593.2	1640.5	1647.4	1732.0	1841.6	1907.1
15°	1517.7	1524.1	1522.0	1527.3	1545.3	1587.9	1644.8	1651.7	1740.0	1870.9	1956.5
17.5°	1607.6	1612.9	1595.3	1575.1	1566.6	1598.0	1658.1	1665.5	1756.0	1901.2	2007.0
20°	1740.0	1754.4	1716.1	1670.9	1629.9	1634.1	1685.8	1693.8	1778.3	1931.5	2058.7
22.5°	1912.3	1923.0	1876.2	1801.8	1726.2	1687.4	1727.2	1732.0	1811.9	1970.9	2115.0
25°	2115.0	2121.4	2056.6	1960.8	1851.7	1778.3	1784.2	1792.7	1867.2	2015.5	2165.1
27.5°	2311.9	2332.1	2257.1	2140.1	1996.4	1874.1	1862.4	1867.7	1927.2	2040.6	2199.6
30°	2545.4	2543.8	2464.6	2328.9	2144.8	1978.4	1936.3	1935.2	1959.7	2052.8	2224.6
32.5°	2731.6	2753.4	2675.7	2527.9	2314.5	2086.4	1987.4	1985.3	1984.8	2074.1	2261.9
35°	2943.3	2946.5	2875.2	2726.3	2498.0	2222.0	2058.7	2048.0	2035.8	2119.8	2312.4
37.5°	3132.7	3147.6	3082.2	2915.1	2678.4	2363.0	2156.6	2149.6	2112.4	2199.1	2393.2
40°	3280.6	3291.8	3252.4	3093.3	2856.0	2515.1	2281.0	2268.3	2223.0	2328.9	2501.2
42.5°	3329.0	3351.9	3367.3	3289.1	3060.3	2695.4	2434.2	2418.3	2383.7	2525.7	2625.8
45°	3332.7	3368.9	3450.3	3454.0	3265.7	2911.4	2613.0	2601.8	2599.1	2777.9	2800.8
47.5°	3304.5	3341.2	3478.0	3551.9	3448.7	3129.5	2870.9	2853.4	2855.0	3089.6	2997.1
50°	3236.4	3280.1	3446.0	3614.6	3591.7	3356.1	3143.3	3137.4	3170.5	3445.5	3200.8
52.5°	3108.3	3160.9	3413.0	3654.0	3698.1	3551.4	3452.9	3436.4	3519.9	3831.7	3423.6
55°	2753.4	2832.7	3292.3	3675.8	3799.2	3738.1	3731.7	3761.5	3872.1	4253.0	3668.9
57.5°	2568.2	2627.9	3030.0	3679.5	3926.9	3955.1	4057.2	4064.6	4258.3	4700.3	3946.1
60°	2467.2	2519.9	2886.4	3655.1	4105.1	4223.8	4390.2	4416.8	4635.4	5184.9	4233.3
62.5°	2378.9	2424.1	2800.2	3570.5	4306.2	4622.1	4821.6	4834.4	5063.7	5720.1	4516.8
65°	2170.9	2222.5	2626.8	3485.9	4479.6	5120.1	5394.0	5379.1	5519.6	6181.9	4694.5
67.5°	1890.6	1956.0	2302.8	3193.9	4565.2	5664.2	6038.7	6020.1	5969.6	6484.5	4745.6
70°	1532.6	1567.7	1888.5	2689.0	4223.2	5949.9	6547.9	6528.2	6248.4	6524.4	4504.1
71°	1318.7	1373.5	1644.2	2388.4	3938.6	5862.7	6613.3	6608.0	6248.9	6414.3	4322.2
72.5°	1029.3	1062.9	1302.2	1850.7	3347.6	5366.9	6451.6	6471.7	6113.2	6108.4	3947.1
75°	651.1	666.0	817.1	1089.4	1836.8	3800.8	5507.4	5562.1	5428.1	4999.8	2935.3
77.5°	378.2	397.4	489.4	642.1	793.7	2062.9	3940.8	4000.3	3771.5	2752.8	1201.7
80°	220.3	241.5	322.4	372.9	364.4	765.5	2006.5	2108.1	1633.1	695.3	337.2
82.5°	122.4	136.7	226.6	227.2	194.2	250.0	631.4	660.7	466.0	280.3	137.8
85°	88.8	100.5	146.2	132.5	93.1	107.5	219.7	230.3	188.3	118.1	44.7
87.5°	31.4	44.7	80.3	63.8	25.6	22.4	63.3	51.6	47.9	33.0	10.1
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°	1757.0	1757.0	1757.0	1757.0	1757.0	1757.0	1757.0	1757.0	1757.0	1757.0	1757.0
2.5°	1766.6	1767.7	1762.4	1752.8	1743.2	1730.9	1717.2	1706.5	1701.8	1701.2	1700.7
5°	1785.8	1788.5	1768.2	1738.4	1705.5	1665.0	1630.4	1591.1	1581.0	1565.0	1569.8
7.5°	1816.6	1815.0	1775.1	1711.9	1634.7	1549.0	1476.7	1434.7	1391.1	1378.8	1379.3
10°	1860.8	1850.7	1775.1	1657.6	1528.9	1401.7	1300.6	1236.8	1202.2	1173.5	1162.9
12.5°	1907.6	1882.1	1758.1	1581.5	1392.7	1236.8	1128.3	1042.1	1019.8	996.3	996.9
15°	1952.3	1909.7	1724.6	1474.6	1245.9	1060.8	955.4	903.8	896.8	899.5	899.0
17.5°	1992.7	1929.4	1673.5	1355.4	1074.5	909.6	853.8	857.5	876.2	889.4	891.0
20°	2033.7	1941.1	1597.5	1195.8	912.8	818.1	820.3	849.5	877.8	895.8	898.4
22.5°	2072.5	1946.4	1508.1	1041.6	795.8	779.4	810.7	842.1	869.8	887.3	889.9
25°	2098.0	1934.2	1381.5	880.4	738.3	765.5	798.4	825.0	848.5	866.6	870.8
27.5°	2104.9	1894.9	1224.6	750.1	711.7	752.2	782.5	802.2	820.3	837.3	840.5
30°	2101.2	1836.8	1052.2	673.5	696.3	736.8	760.2	774.6	796.3	809.6	812.3
32.5°	2095.4	1769.3	872.4	632.5	683.6	722.4	736.2	749.0	748.5	743.1	746.9
35°	2097.5	1688.4	726.6	608.0	672.4	711.7	723.4	707.5	661.8	659.6	657.5
37.5°	2108.6	1608.7	620.8	591.0	666.6	710.1	716.5	643.1	602.7	584.1	579.3
40°	2137.4	1515.6	551.1	578.3	666.0	722.4	685.2	610.7	533.0	496.9	494.2
42.5°	2175.7	1424.1	508.6	570.3	672.4	741.0	672.4	564.9	480.4	459.1	455.9
45°	2232.6	1319.3	485.2	566.5	682.0	747.9	668.2	531.4	459.1	442.0	442.0
47.5°	2297.0	1219.3	472.4	563.9	694.2	743.1	630.3	520.7	449.0	451.1	461.2
50°	2360.9	1132.6	462.8	558.0	704.8	740.5	614.9	520.2	451.6	478.8	496.9
52.5°	2434.8	1071.3	451.1	548.4	704.8	723.4	610.1	530.9	459.1	467.1	475.0
55°	2524.1	1052.2	436.2	527.7	692.1	680.9	607.5	546.3	464.4	445.8	449.0
57.5°	2642.3	1083.0	421.8	501.7	662.8	636.7	606.4	550.6	452.1	436.7	433.5
60°	2779.5	1144.3	417.6	475.0	622.9	599.0	600.1	538.3	435.1	419.2	421.8
62.5°	2875.7	1180.9	414.9	454.8	579.3	557.5	584.6	523.4	427.7	413.9	416.5
65°	2875.7	1136.3	390.5	423.9	522.9	507.5	566.0	504.9	418.1	402.2	399.5
67.5°	2766.7	1005.9	353.2	377.7	460.7	450.6	539.9	482.5	403.8	391.5	385.1
70°	2482.6	762.8	306.4	323.4	382.0	391.0	506.5	452.1	379.8	364.9	355.3
71°	2357.7	664.4	286.7	295.8	351.6	364.9	490.5	439.4	369.2	347.9	330.8
72.5°	2116.6	559.6	256.9	260.6	300.6	324.5	456.9	414.9	348.9	318.7	299.5
75°	1608.1	408.6	207.0	204.8	222.4	257.4	386.7	369.7	305.9	264.9	253.7
77.5°	694.8	222.4	154.8	156.4	151.0	195.2	304.3	317.6	262.2	215.5	205.4
80°	210.7	128.2	105.9	108.0	101.1	130.9	214.4	248.9	210.7	167.5	153.7
82.5°	108.0	76.6	72.3	71.3	64.3	73.9	129.8	170.2	150.5	104.8	92.6
85°	46.8	41.0	35.7	34.6	30.4	26.6	46.3	85.1	79.8	58.5	55.8
87.5°	11.7	10.7	6.9	6.4	3.7	0.5	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)