

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: P650764

Luminaire Tested: **GALN-SA2C-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7230.9 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

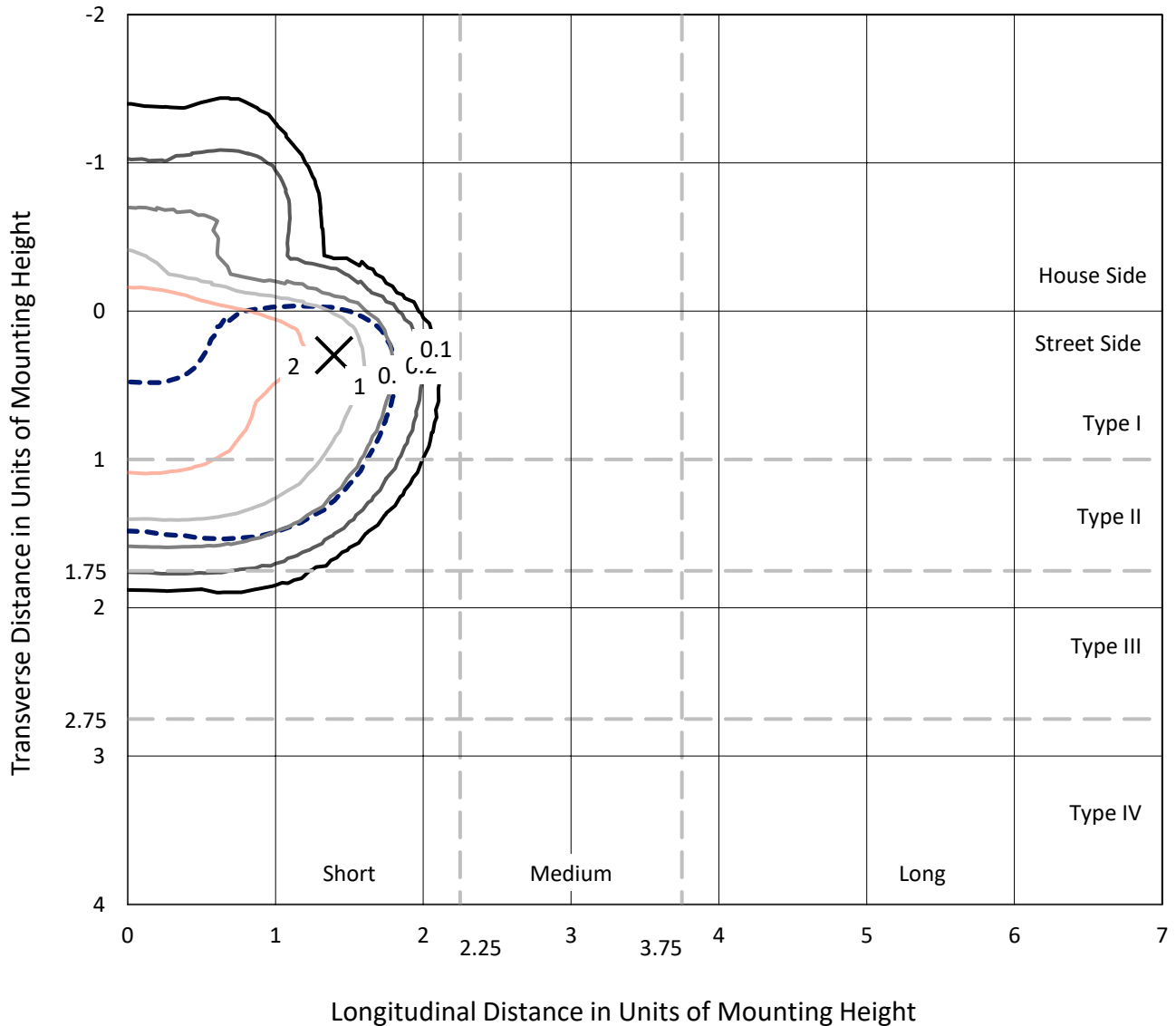
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

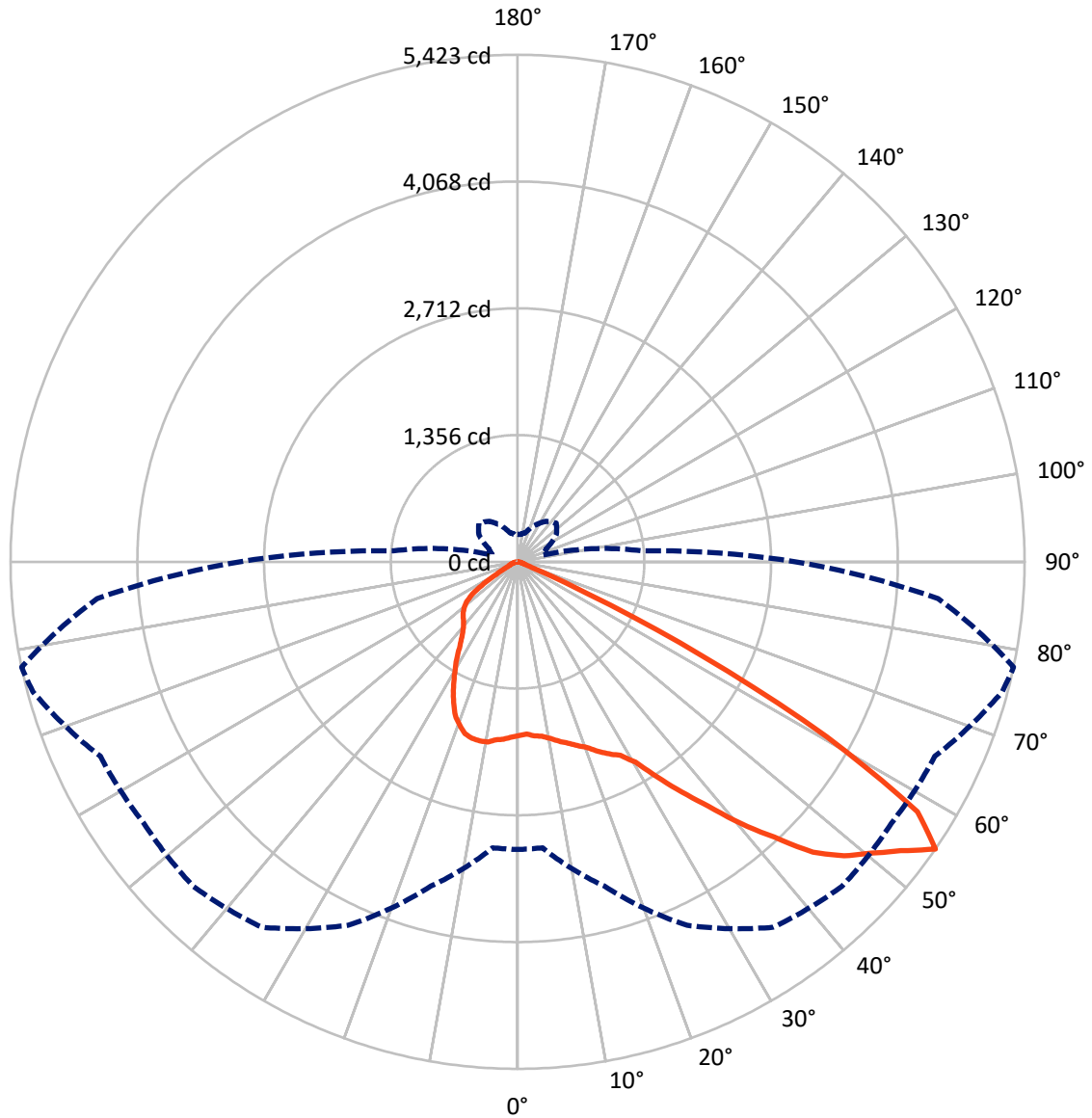
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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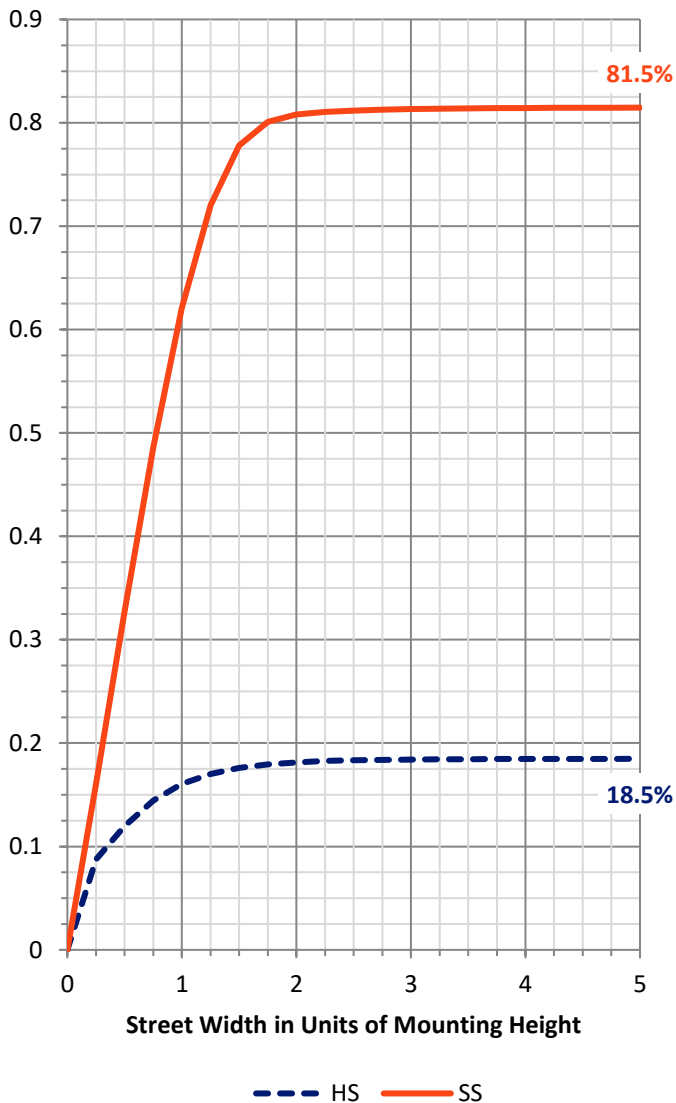
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1343.1	0.0	1343.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5887.9	0.0	5887.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	7230.9	0.0	7230.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	2.3
10°-20°	438.7	6.1
20°-30°	769.0	10.6
30°-40°	1268.0	17.5
40°-50°	1845.0	25.5
50°-60°	2090.6	28.9
60°-70°	597.7	8.3
70°-80°	46.4	0.6
80°-90°	9.7	0.1
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°	7230.9	100.0
0°-180°	7230.9	100.0

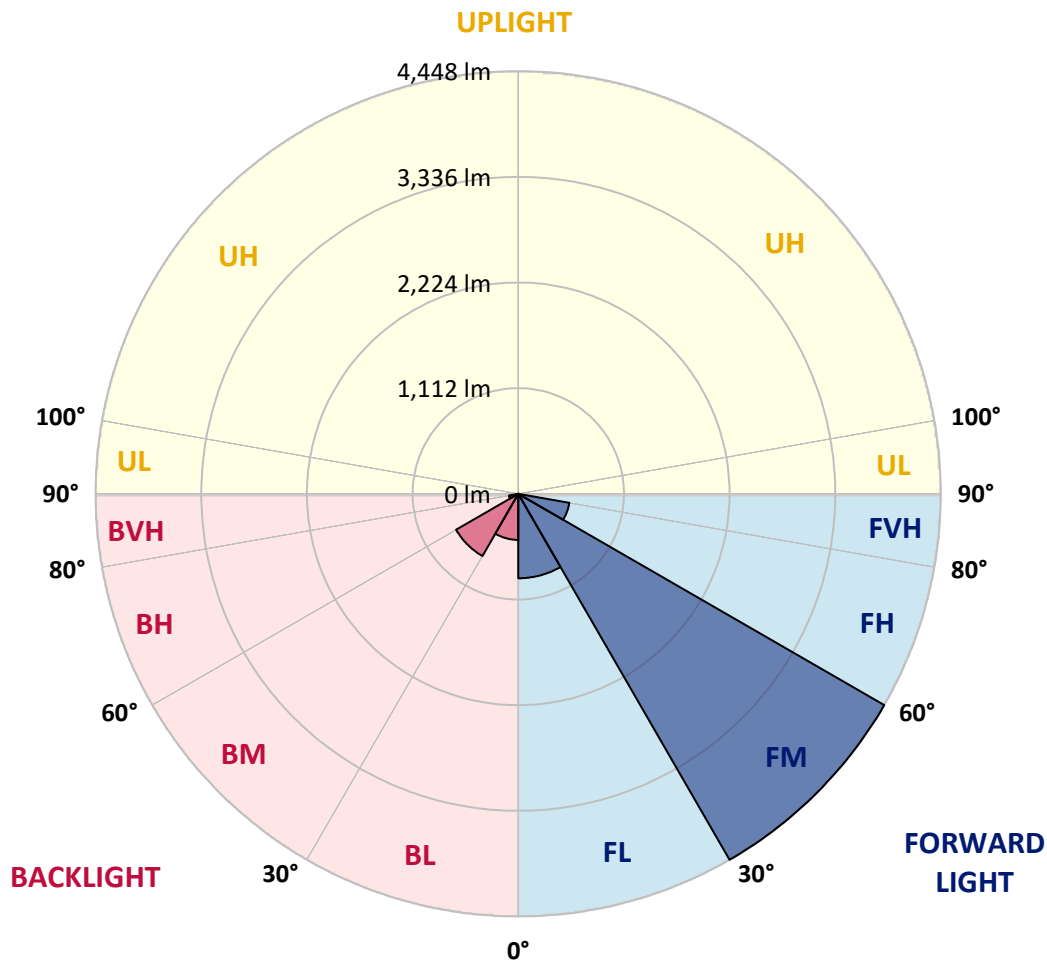


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	888.9	12.3			
FM (30°-60°)	4448.1	61.5			
FH (60°-80°)	546.1	7.6			G0/660
FVH (80°-90°)	4.7	0.1			G0/10
BL (0°-30°)	484.6	6.7	B1/500		
BM (30°-60°)	755.5	10.4	B1/1000		
BH (60°-80°)	98.0	1.4	B0/110		G0/110
BVH (80°-90°)	5.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1859.1	1859.1	1859.1	1859.1	1859.1	1859.1	1859.1	1859.1	1859.1	1859.1	1859.1
2.5°	1747.9	1764.7	1767.3	1788.0	1786.7	1821.6	1832.0	1833.2	1856.5	1844.8	1874.6
5°	1698.7	1689.7	1685.9	1722.0	1732.4	1763.4	1789.2	1804.8	1852.6	1869.4	1900.4
7.5°	1654.8	1654.8	1657.4	1689.7	1685.9	1725.9	1753.1	1800.9	1870.7	1884.9	1922.4
10°	1612.1	1596.6	1616.0	1649.6	1678.0	1696.2	1753.1	1798.3	1879.7	1921.1	1972.8
12.5°	1590.2	1597.9	1600.5	1625.1	1656.1	1710.4	1741.5	1816.4	1944.4	1968.9	2024.5
15°	1728.5	1712.9	1675.5	1653.5	1679.4	1705.2	1782.8	1859.1	1978.0	2012.9	2075.0
17.5°	1888.8	1875.9	1844.8	1785.4	1727.2	1775.0	1835.8	1905.6	2014.2	2065.9	2157.8
20°	2098.2	2077.5	2046.6	1930.2	1879.7	1828.1	1892.7	1975.4	2073.7	2120.2	2214.6
22.5°	2347.7	2347.7	2277.9	2137.1	2032.3	1983.2	2010.3	2058.2	2139.6	2203.0	2296.0
25°	2607.6	2599.9	2536.5	2390.5	2213.3	2155.1	2186.2	2219.7	2241.8	2276.7	2338.7
27.5°	2905.0	2859.7	2779.6	2617.9	2461.5	2349.1	2382.6	2352.9	2325.8	2343.9	2433.1
30°	3106.7	3135.1	3033.0	2877.8	2730.5	2605.0	2611.5	2585.7	2461.5	2487.3	2540.4
32.5°	3316.1	3334.1	3277.3	3191.9	3044.6	2898.5	2845.5	2823.5	2730.5	2742.1	2690.4
35°	3490.6	3525.6	3475.1	3437.6	3394.9	3277.3	3131.2	3202.3	3052.3	3023.9	2889.4
37.5°	3650.9	3640.6	3700.1	3661.3	3652.2	3569.5	3409.2	3423.4	3322.5	3316.1	3161.0
40°	3794.4	3797.0	3878.4	3896.5	3860.4	3713.0	3480.2	3592.8	3674.2	3682.0	3482.8
42.5°	3913.3	3948.2	4018.0	4164.1	4109.9	3864.2	3554.0	3676.8	3979.3	4027.1	3787.9
45°	4016.8	4087.9	4174.5	4305.1	4274.0	4078.8	3737.6	3850.0	4305.1	4430.5	4075.0
47.5°	4023.3	4116.4	4210.7	4404.7	4443.4	4193.9	3927.6	4124.1	4563.7	4699.4	4284.4
50°	3997.4	4046.6	4235.3	4446.0	4533.9	4381.4	4193.9	4354.2	4814.5	4899.8	4390.4
52.5°	3691.0	3728.5	4107.3	4484.8	4696.8	4593.4	4546.9	4674.9	5070.5	5133.8	4489.9
55°	3076.9	3070.4	3591.5	4289.6	4771.8	4907.6	4879.1	4924.3	5366.5	5423.4	4514.5
57.5°	2104.7	2222.3	2672.3	3572.1	4312.8	4833.8	4863.6	4788.6	5021.3	5043.3	3935.4
60°	1135.1	1184.2	1546.2	2384.0	3283.8	3939.2	4016.8	3881.0	3863.0	3800.9	2809.3
62.5°	451.2	475.8	681.3	1180.3	1789.2	2394.3	2561.1	2505.5	2386.5	2223.7	1454.4
65°	214.6	230.1	338.8	552.0	793.8	998.0	1164.9	1216.5	897.2	808.0	479.6
67.5°	146.1	157.7	246.9	315.5	283.2	296.0	385.3	358.1	210.8	179.7	133.1
70°	111.2	118.9	197.8	214.6	126.7	89.2	99.6	93.1	86.6	87.9	86.6
72.5°	78.9	85.4	144.8	126.7	55.6	41.4	53.0	63.3	63.3	63.3	62.1
75°	47.9	54.3	84.0	49.1	22.0	22.0	33.6	42.6	45.2	46.5	44.0
77.5°	24.6	31.0	28.4	14.2	14.2	16.8	24.6	29.8	32.3	32.3	31.0
80°	5.1	5.1	5.1	7.7	14.2	18.1	24.6	27.2	31.0	31.0	28.4
82.5°	0.0	1.3	3.9	7.7	13.0	16.8	23.3	27.2	31.0	32.3	29.8
85°	0.0	1.3	2.6	5.1	9.1	10.3	9.1	7.7	7.7	7.7	7.7
87.5°	0.0	0.0	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6
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°	1859.1	1859.1	1859.1	1859.1	1859.1	1859.1	1859.1	1859.1	1859.1	1859.1	1859.1
2.5°	1877.2	1881.1	1874.6	1873.3	1868.1	1883.7	1846.2	1837.1	1860.4	1838.4	1843.6
5°	1901.8	1910.8	1899.1	1879.7	1851.3	1807.4	1769.9	1720.8	1697.5	1680.7	1678.0
7.5°	1919.8	1926.3	1914.7	1852.6	1767.3	1656.1	1573.3	1512.6	1464.8	1450.6	1427.3
10°	1993.5	1994.9	1936.7	1799.6	1632.8	1486.7	1360.1	1267.0	1219.1	1189.4	1176.5
12.5°	2042.6	2040.1	1922.4	1694.9	1472.5	1278.6	1133.8	1021.3	977.4	963.1	954.1
15°	2104.7	2090.5	1888.8	1587.6	1265.7	1056.2	925.7	848.1	844.2	835.2	844.2
17.5°	2153.8	2113.8	1839.7	1392.4	1067.9	870.1	784.7	790.0	800.3	809.3	810.6
20°	2234.0	2151.3	1727.2	1221.7	884.3	746.0	744.7	767.9	793.8	804.2	814.5
22.5°	2294.8	2166.8	1607.0	1039.4	734.4	695.5	717.5	752.4	771.8	782.1	797.7
25°	2316.7	2124.1	1446.7	857.1	662.0	672.3	705.9	729.1	753.7	765.3	758.9
27.5°	2338.7	2102.2	1255.4	705.9	623.1	656.7	685.2	708.5	716.2	731.8	742.1
30°	2391.7	2025.9	1083.4	610.2	603.8	646.4	667.1	674.8	695.5	704.6	704.6
32.5°	2434.4	1996.1	901.1	565.0	601.1	651.6	654.1	654.1	656.7	650.3	647.7
35°	2522.3	1894.0	738.2	537.8	599.9	652.9	659.3	637.4	577.9	554.6	548.2
37.5°	2630.9	1828.1	618.0	531.3	608.9	668.4	678.8	596.0	518.4	481.0	474.5
40°	2762.8	1781.5	539.1	528.7	629.6	704.6	673.6	563.6	462.8	408.6	406.0
42.5°	2916.6	1738.9	486.1	527.5	655.5	742.1	668.4	536.6	406.0	369.8	374.9
45°	3039.5	1715.6	449.9	518.4	664.5	764.0	672.3	488.7	382.7	359.4	362.0
47.5°	3135.1	1666.4	420.2	502.9	663.2	771.8	637.4	469.3	371.0	377.5	384.0
50°	3137.7	1600.5	382.7	469.3	643.8	757.6	597.3	451.2	368.4	395.6	408.6
52.5°	3102.8	1507.4	342.6	421.4	598.5	708.5	561.1	443.5	356.8	354.2	369.8
55°	2978.7	1332.9	275.3	341.3	505.5	584.3	528.7	429.2	321.9	292.2	294.8
57.5°	2407.2	955.4	202.9	244.3	358.1	427.9	477.0	422.8	289.6	248.3	249.5
60°	1490.6	541.7	148.7	166.8	221.1	259.9	386.5	393.0	258.5	209.4	206.9
62.5°	765.3	267.6	115.0	117.7	135.7	152.6	265.0	329.7	234.0	199.1	199.1
65°	256.0	131.9	100.8	90.5	90.5	94.4	160.3	228.8	197.8	166.8	166.8
67.5°	109.9	98.2	87.9	78.9	72.4	68.5	90.5	133.1	147.3	126.7	121.5
70°	85.4	82.8	76.3	65.9	56.9	51.7	53.0	68.5	84.0	81.4	78.9
72.5°	63.3	63.3	60.8	51.7	44.0	37.5	34.9	36.2	40.1	41.4	42.6
75°	44.0	45.2	45.2	40.1	32.3	27.2	23.3	19.4	15.5	13.0	11.6
77.5°	29.8	31.0	33.6	29.8	24.6	18.1	14.2	10.3	6.5	2.6	2.6
80°	25.8	29.8	32.3	29.8	25.8	19.4	14.2	7.7	3.9	0.0	0.0
82.5°	27.2	29.8	33.6	28.4	24.6	18.1	14.2	9.1	3.9	1.3	0.0
85°	6.5	6.5	7.7	9.1	11.6	13.0	10.3	6.5	3.9	1.3	0.0
87.5°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	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)