

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: P647299

Luminaire Tested: **GALN-SA2D-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647299  
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-SA2D-835-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1200mA 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: 7408 lumens  
Efficiency: N/A  
Efficacy: 59.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

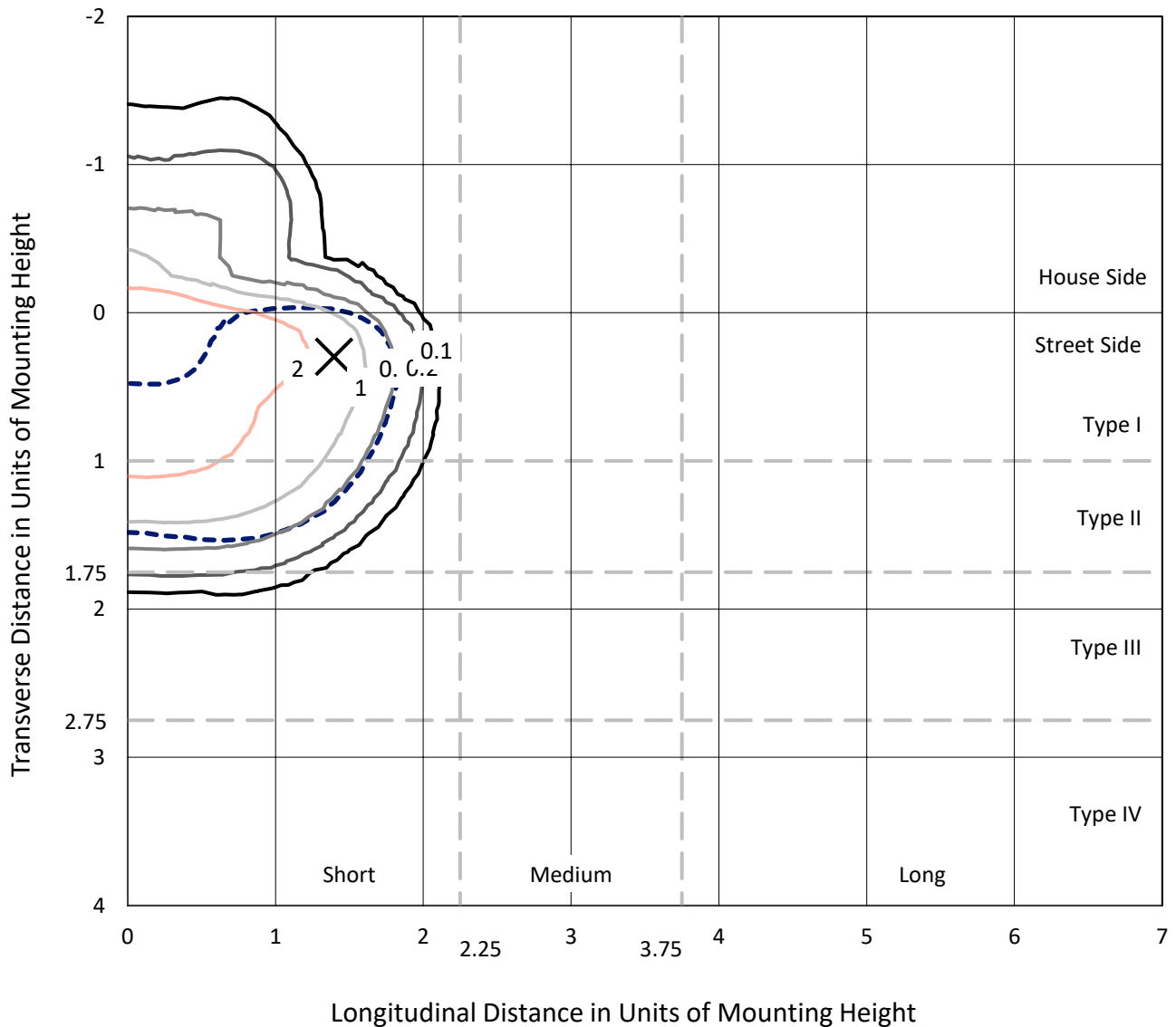
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

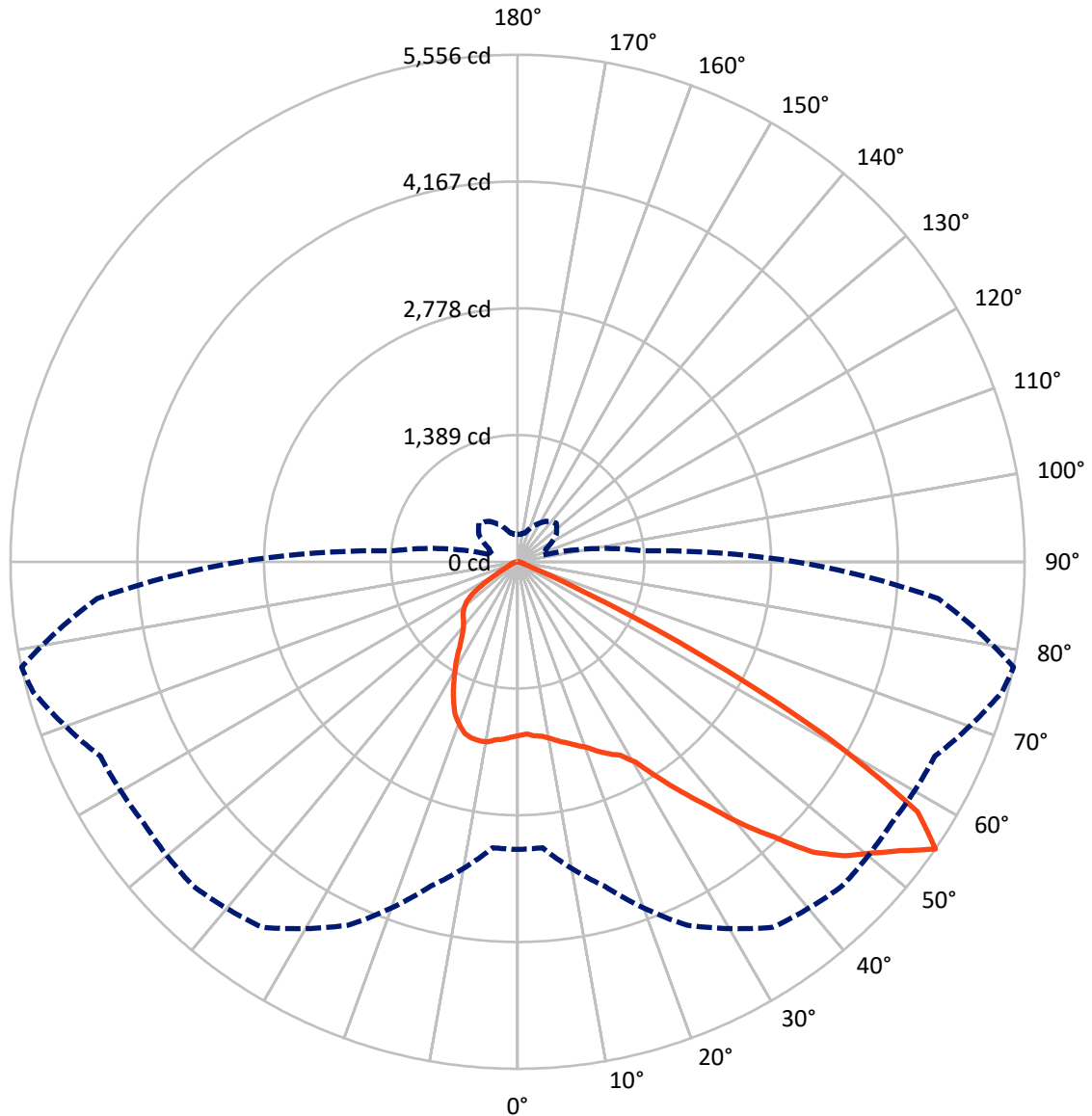
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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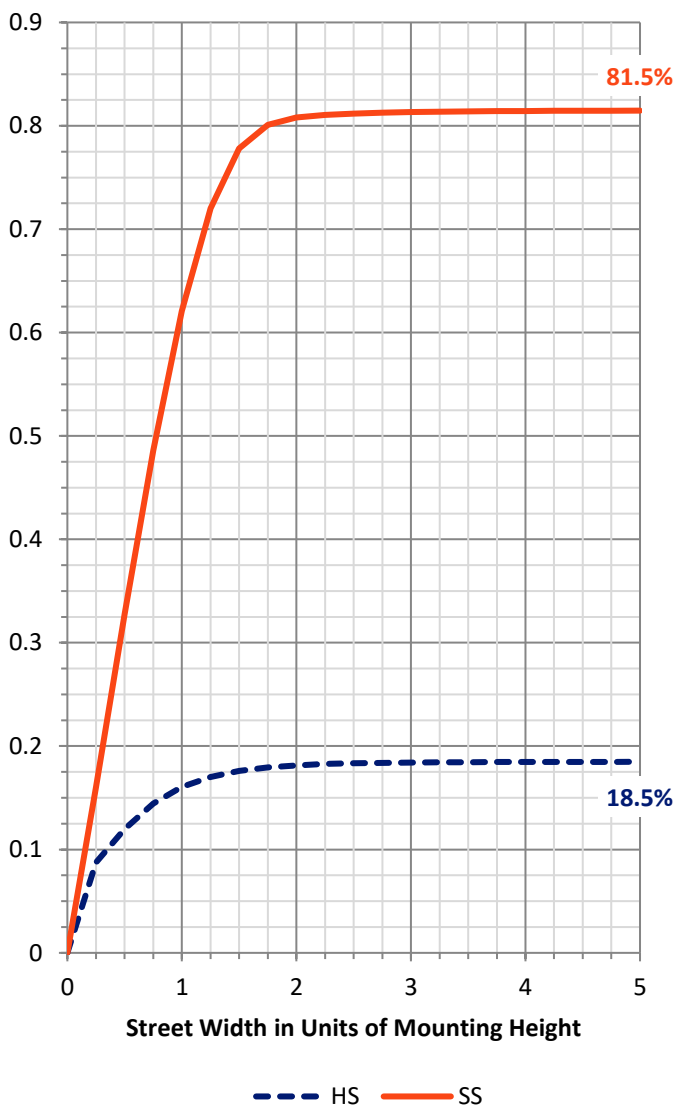
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1375.9	0.0	1375.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	6032.0	0.0	6032.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	7408.0	0.0	7408.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.8	2.3
10°-20°	449.5	6.1
20°-30°	787.8	10.6
30°-40°	1299.0	17.5
40°-50°	1890.2	25.5
50°-60°	2141.8	28.9
60°-70°	612.4	8.3
70°-80°	47.6	0.6
80°-90°	9.9	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°	7408.0	100.0
0°-180°	7408.0	100.0

**Coefficient of Utilization**

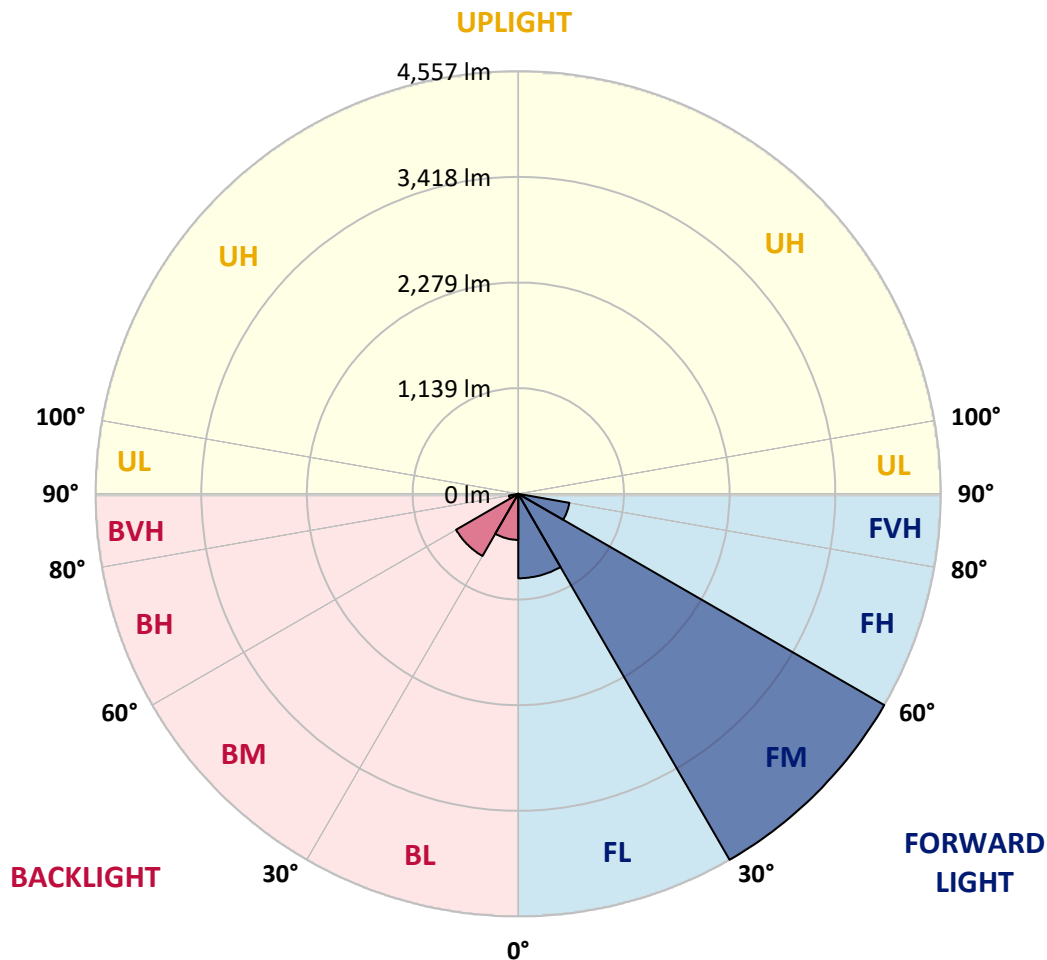


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.7	12.3			
FM (30°-60°)	4557.0	61.5			
FH (60°-80°)	559.5	7.6			G0/660
FVH (80°-90°)	4.8	0.1			G0/10
BL (0°-30°)	496.4	6.7	B1/500		
BM (30°-60°)	774.0	10.4	B1/1000		
BH (60°-80°)	100.4	1.4	B0/110		G0/110
BVH (80°-90°)	5.1	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°	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6
2.5°	1790.7	1807.9	1810.5	1831.8	1830.4	1866.2	1876.8	1878.1	1901.9	1890.0	1920.5
5°	1740.4	1731.1	1727.1	1764.2	1774.8	1806.6	1833.1	1849.0	1898.0	1915.2	1947.0
7.5°	1695.4	1695.4	1697.9	1731.1	1727.1	1768.2	1796.0	1845.0	1916.5	1931.1	1969.5
10°	1651.6	1635.7	1655.6	1690.0	1719.2	1737.7	1796.0	1842.3	1925.8	1968.1	2021.2
12.5°	1629.1	1637.0	1639.7	1664.9	1696.7	1752.3	1784.1	1860.9	1992.0	2017.2	2074.1
15°	1770.8	1754.9	1716.5	1694.0	1720.5	1747.0	1826.4	1904.6	2026.4	2062.2	2125.8
17.5°	1935.0	1921.8	1890.0	1829.1	1769.5	1818.5	1880.8	1952.3	2063.5	2116.5	2210.6
20°	2149.6	2128.4	2096.6	1977.5	1925.8	1872.8	1939.0	2023.8	2124.4	2172.1	2268.8
22.5°	2405.2	2405.2	2333.7	2189.3	2082.1	2031.7	2059.5	2108.5	2192.0	2256.9	2352.3
25°	2671.4	2663.5	2598.6	2448.9	2267.5	2207.9	2239.7	2274.1	2296.6	2332.4	2396.0
27.5°	2976.1	2929.8	2847.6	2682.1	2521.8	2406.6	2441.0	2410.5	2382.7	2401.3	2492.7
30°	3182.7	3211.9	3107.2	2948.3	2797.3	2668.8	2675.4	2649.0	2521.8	2548.3	2602.6
32.5°	3397.3	3415.8	3357.5	3270.1	3119.2	2969.4	2915.2	2892.6	2797.3	2809.2	2756.2
35°	3576.0	3611.8	3560.1	3521.8	3478.1	3357.5	3207.9	3280.7	3127.1	3097.9	2960.2
37.5°	3740.3	3729.7	3790.7	3750.9	3741.6	3656.8	3492.6	3507.2	3403.9	3397.3	3238.3
40°	3887.4	3889.9	3973.4	3992.0	3954.9	3803.9	3565.5	3680.7	3764.1	3772.1	3568.1
42.5°	4009.2	4045.0	4116.5	4266.1	4210.5	3958.8	3641.0	3766.8	4076.7	4125.7	3880.7
45°	4115.1	4188.0	4276.7	4410.5	4378.7	4178.7	3829.0	3944.3	4410.5	4539.0	4174.7
47.5°	4121.8	4217.2	4313.8	4512.5	4552.2	4296.6	4023.8	4225.1	4675.4	4814.4	4389.3
50°	4095.2	4145.6	4339.0	4554.9	4644.9	4488.6	4296.6	4460.8	4932.4	5019.7	4497.9
52.5°	3781.3	3819.8	4207.8	4594.6	4811.8	4705.8	4658.1	4789.3	5194.6	5259.5	4599.9
55°	3152.3	3145.6	3679.4	4394.6	4888.7	5027.7	4998.6	5044.9	5497.9	5556.2	4625.0
57.5°	2156.2	2276.8	2737.7	3659.5	4418.5	4952.2	4982.7	4905.8	5144.2	5166.8	4031.7
60°	1162.9	1213.2	1584.1	2442.3	3364.2	4035.7	4115.1	3976.1	3957.5	3893.9	2878.1
62.5°	462.2	487.4	698.0	1209.3	1833.1	2452.9	2623.8	2566.8	2445.0	2278.1	1490.0
65°	219.9	235.8	347.0	565.6	813.2	1022.5	1193.4	1246.3	919.2	827.8	491.4
67.5°	149.6	161.6	253.0	323.1	290.0	303.3	394.7	366.9	215.9	184.1	136.4
70°	113.9	121.8	202.6	219.9	129.8	91.4	101.9	95.4	88.7	90.0	88.7
72.5°	80.8	87.4	148.4	129.8	56.9	42.4	54.3	64.9	64.9	64.9	63.6
75°	49.0	55.6	86.1	50.3	22.6	22.6	34.5	43.7	46.4	47.7	45.0
77.5°	25.1	31.8	29.1	14.6	14.6	17.2	25.1	30.5	33.1	33.1	31.8
80°	5.3	5.3	5.3	7.9	14.6	18.6	25.1	27.8	31.8	31.8	29.1
82.5°	0.0	1.3	4.0	7.9	13.2	17.2	23.8	27.8	31.8	33.1	30.5
85°	0.0	1.3	2.7	5.3	9.2	10.6	9.2	7.9	7.9	7.9	7.9
87.5°	0.0	0.0	1.3	1.3	1.3	2.7	2.7	2.7	2.7	2.7	2.7
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°	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6
2.5°	1923.1	1927.1	1920.5	1919.1	1913.9	1929.8	1891.3	1882.1	1905.9	1883.4	1888.7
5°	1948.3	1957.6	1945.7	1925.8	1896.7	1851.6	1813.2	1762.8	1739.0	1721.8	1719.2
7.5°	1966.8	1973.5	1961.6	1898.0	1810.5	1696.7	1611.9	1549.6	1500.6	1486.1	1462.3
10°	2042.3	2043.6	1984.0	1843.7	1672.8	1523.2	1393.3	1298.0	1249.0	1218.5	1205.3
12.5°	2092.6	2090.0	1969.5	1736.4	1508.6	1309.9	1161.6	1046.3	1001.3	986.7	977.5
15°	2156.2	2141.7	1935.0	1626.4	1296.6	1082.1	948.3	868.8	864.9	855.6	864.9
17.5°	2206.6	2165.5	1884.8	1426.5	1094.0	891.4	804.0	809.2	819.9	829.1	830.4
20°	2288.7	2203.9	1769.5	1251.6	905.9	764.2	762.9	786.8	813.2	823.8	834.4
22.5°	2351.0	2219.8	1646.3	1064.9	752.3	712.5	735.1	770.9	790.7	801.3	817.2
25°	2373.4	2176.1	1482.1	878.1	678.2	688.7	723.2	747.0	772.2	784.1	777.4
27.5°	2396.0	2153.6	1286.1	723.2	638.4	672.8	702.0	725.8	733.7	749.6	760.2
30°	2450.2	2075.4	1109.9	625.1	618.5	662.3	683.4	691.4	712.5	721.8	721.8
32.5°	2494.0	2045.0	923.2	578.8	615.9	667.5	670.2	670.2	672.8	666.2	663.6
35°	2584.1	1940.4	756.3	551.0	614.6	668.8	675.5	652.9	592.0	568.2	561.6
37.5°	2695.3	1872.8	633.1	544.3	623.8	684.7	695.4	610.6	531.1	492.7	486.1
40°	2830.4	1825.1	552.3	541.7	645.0	721.8	690.1	577.5	474.2	418.5	415.9
42.5°	2988.0	1781.4	498.0	540.3	671.5	760.2	684.7	549.7	415.9	378.8	384.1
45°	3113.8	1757.6	461.0	531.1	680.7	782.8	688.7	500.7	392.0	368.2	370.8
47.5°	3211.9	1707.3	430.4	515.2	679.5	790.7	652.9	480.8	380.1	386.7	393.4
50°	3214.5	1639.7	392.0	480.8	659.6	776.1	611.9	462.2	377.5	405.3	418.5
52.5°	3178.7	1544.3	351.0	431.7	613.2	725.8	574.8	454.3	365.6	362.9	378.8
55°	3051.6	1365.6	282.1	349.7	517.9	598.7	541.7	439.7	329.8	299.3	302.0
57.5°	2466.1	978.8	208.0	250.3	366.9	438.4	488.7	433.1	296.7	254.3	255.6
60°	1527.1	555.0	152.3	170.9	226.5	266.2	396.0	402.6	264.9	214.5	211.9
62.5°	784.1	274.1	117.8	120.5	139.1	156.3	271.5	337.7	239.8	204.0	204.0
65°	262.2	135.1	103.3	92.7	92.7	96.7	164.3	234.4	202.6	170.9	170.9
67.5°	112.6	100.7	90.0	80.8	74.2	70.2	92.7	136.4	151.0	129.8	124.5
70°	87.4	84.8	78.1	67.6	58.3	53.0	54.3	70.2	86.1	83.5	80.8
72.5°	64.9	64.9	62.2	53.0	45.0	38.4	35.8	37.1	41.0	42.4	43.7
75°	45.0	46.4	46.4	41.0	33.1	27.8	23.8	19.9	15.9	13.2	11.9
77.5°	30.5	31.8	34.5	30.5	25.1	18.6	14.6	10.6	6.7	2.7	2.7
80°	26.5	30.5	33.1	30.5	26.5	19.9	14.6	7.9	4.0	0.0	0.0
82.5°	27.8	30.5	34.5	29.1	25.1	18.6	14.6	9.2	4.0	1.3	0.0
85°	6.7	6.7	7.9	9.2	11.9	13.2	10.6	6.7	4.0	1.3	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	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)