

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: STREETWORKS

Report Number: P382873

Luminaire Tested: **GAN-SA2B-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 11136.6 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

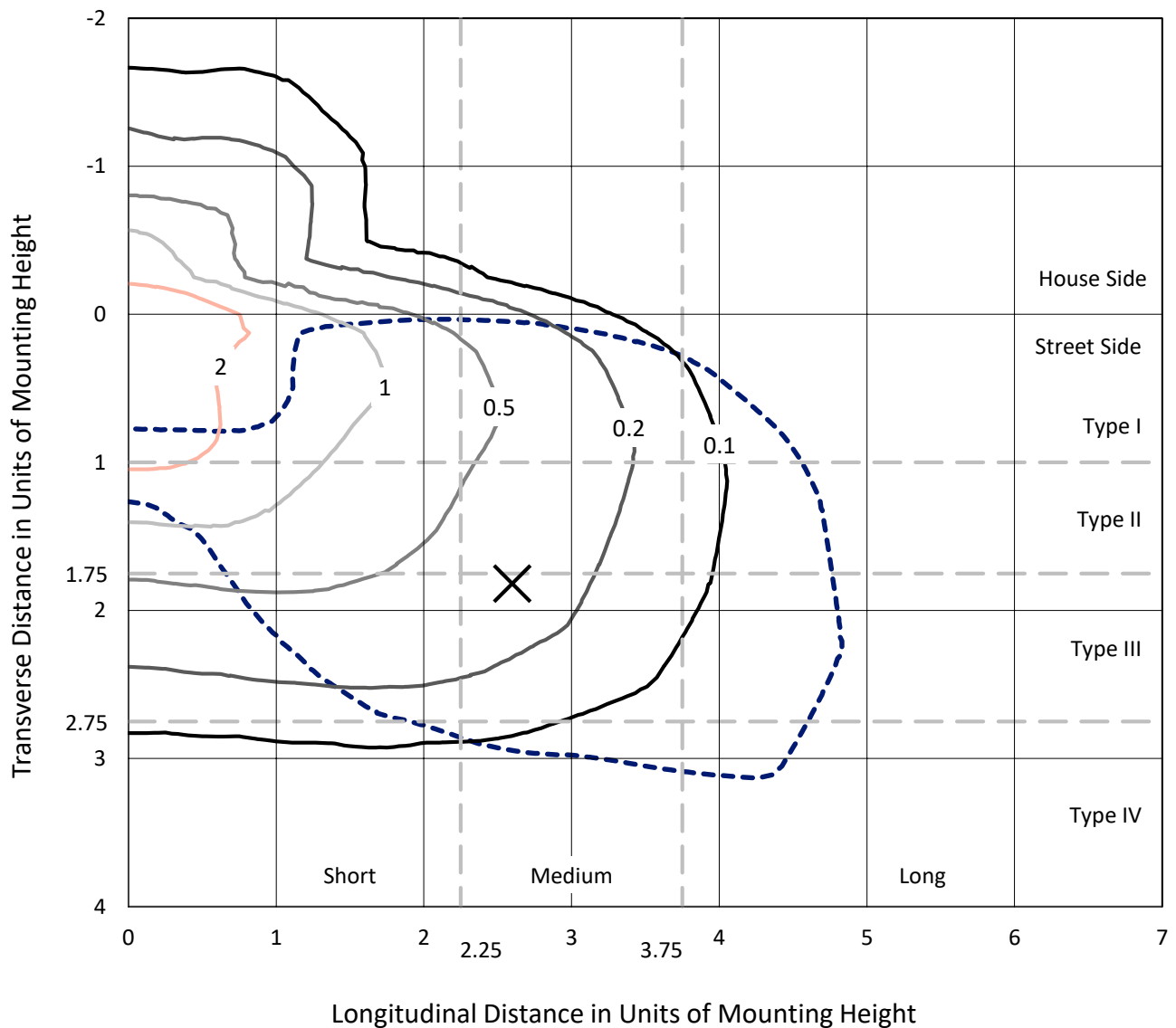
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

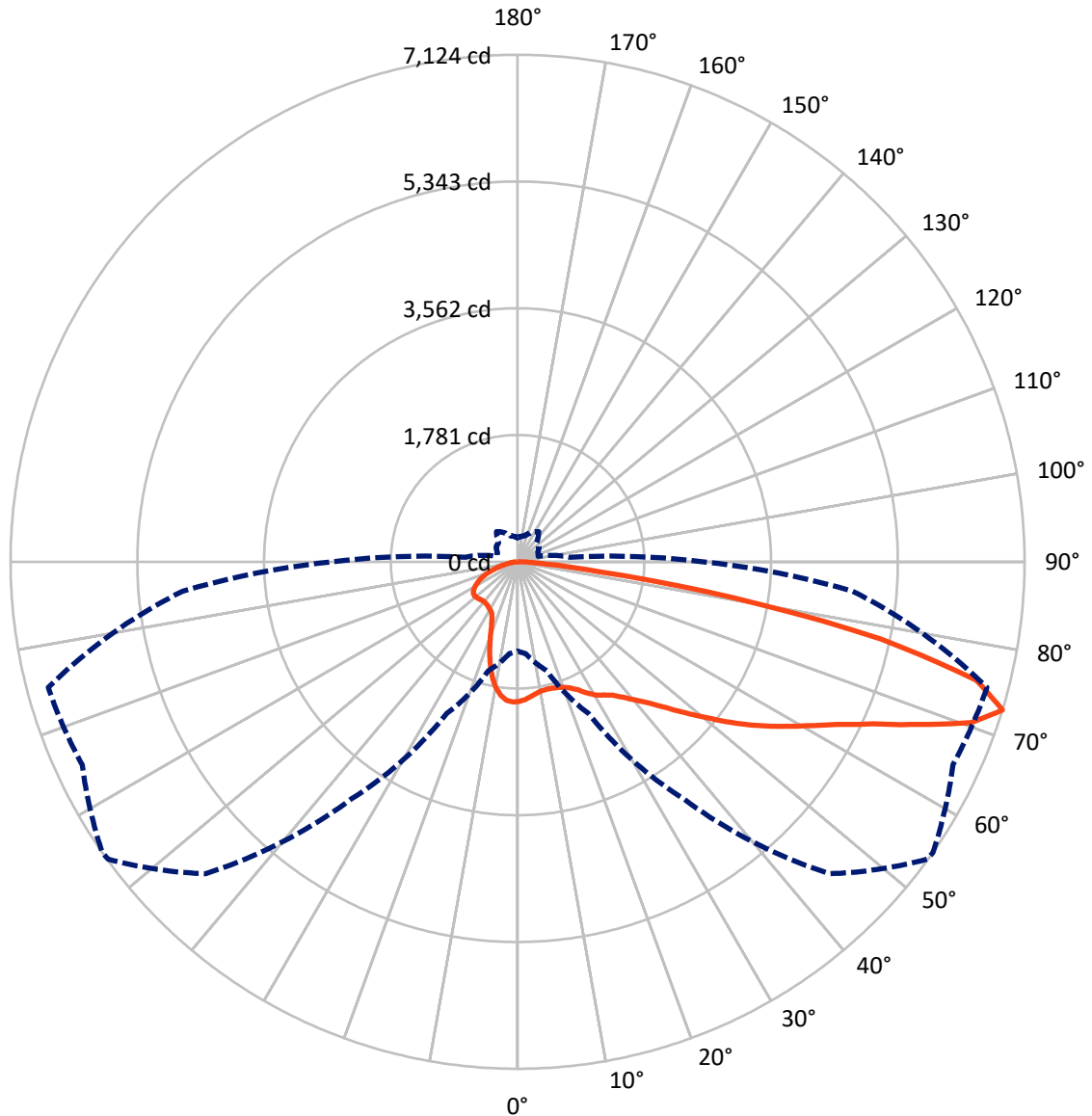
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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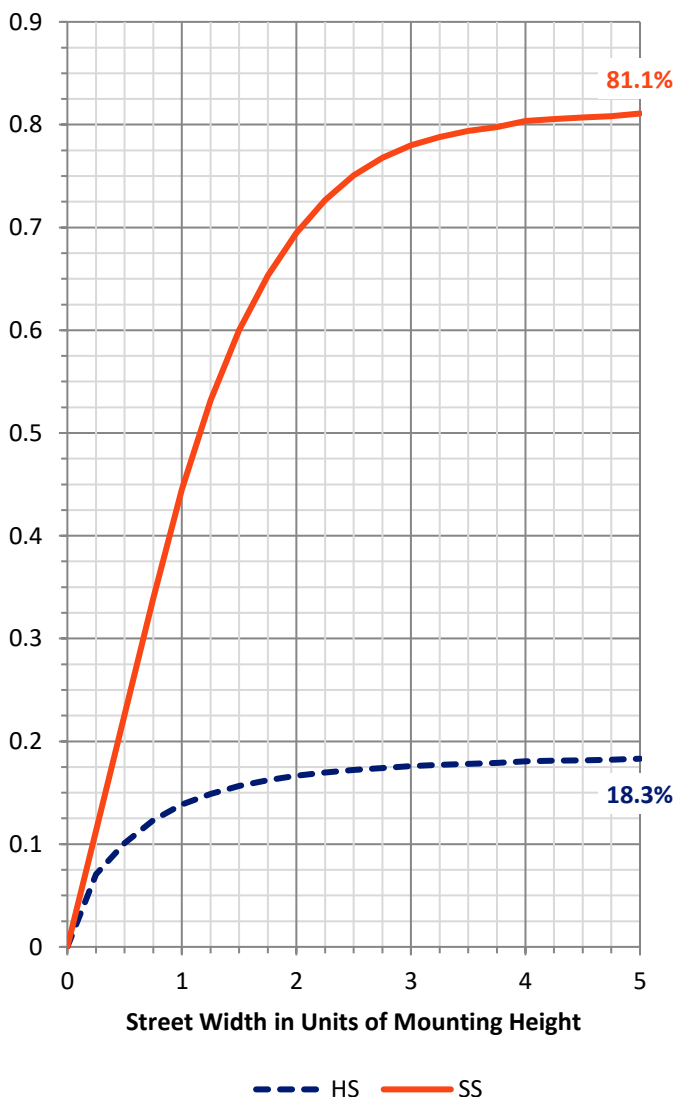
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2069.9	0.0	2069.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9066.7	0.0	9066.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	11136.6	0.0	11136.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.7	1.6
10°-20°	473.2	4.2
20°-30°	780.2	7.0
30°-40°	1154.1	10.4
40°-50°	1610.9	14.5
50°-60°	2097.5	18.8
60°-70°	2577.7	23.1
70°-80°	2020.6	18.1
80°-90°	244.5	2.2
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°	11136.6	100.0
0°-180°	11136.6	100.0

Coefficient of Utilization

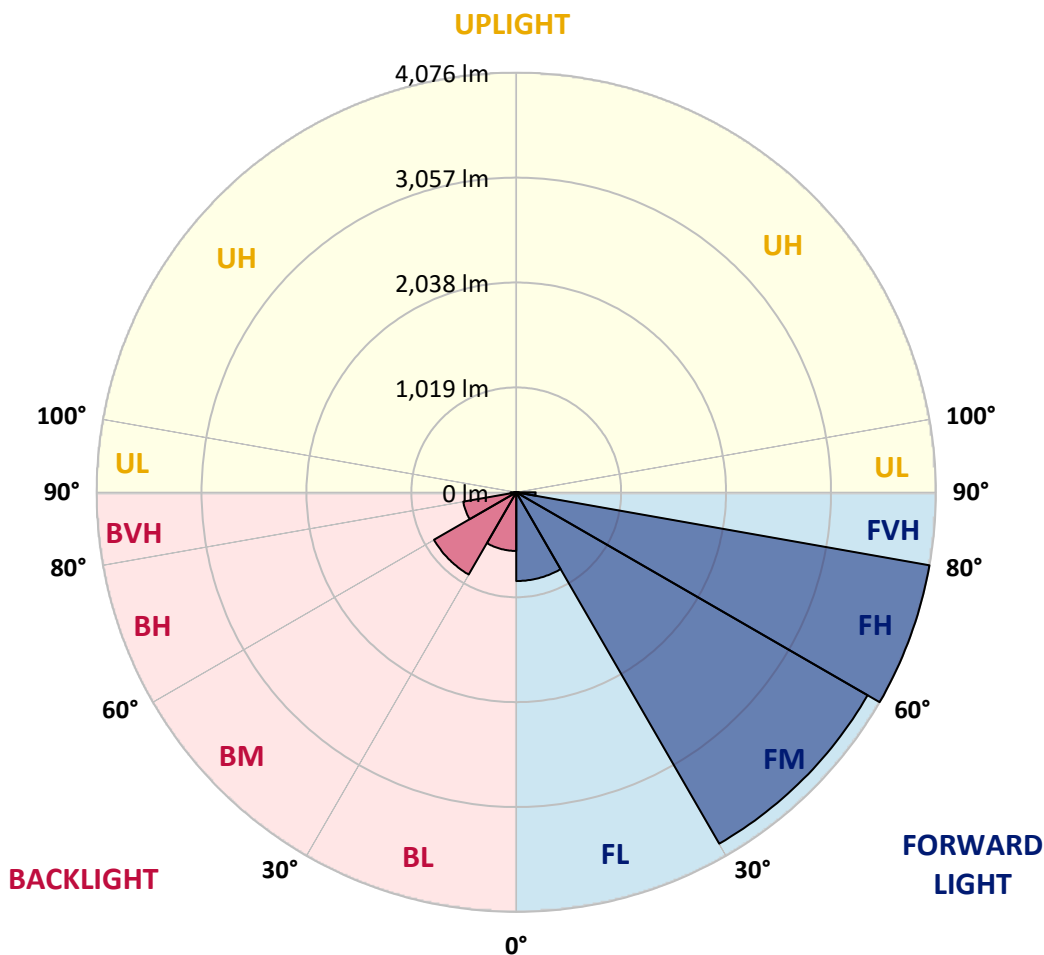


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.7	7.7			
FM (30°-60°)	3940.4	35.4			
FH (60°-80°)	4075.6	36.6			G2/5000
FVH (80°-90°)	189.1	1.7			G2/225
BL (0°-30°)	569.5	5.1	B2/1000		
BM (30°-60°)	922.2	8.3	B1/1000		
BH (60°-80°)	522.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	55.5	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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3
2.5°	1900.4	1895.8	1901.5	1909.4	1918.0	1929.7	1936.4	1939.5	1951.1	1955.6	1965.4
5°	1812.3	1810.0	1819.4	1833.0	1852.2	1879.2	1901.1	1905.2	1936.0	1957.8	1977.8
7.5°	1748.3	1748.3	1759.2	1775.4	1796.9	1833.4	1864.2	1869.9	1922.2	1969.2	2006.0
10°	1697.6	1699.4	1712.3	1731.5	1756.6	1795.4	1836.4	1842.8	1918.3	1995.5	2054.2
12.5°	1663.7	1668.2	1679.9	1697.2	1728.4	1775.4	1827.3	1836.0	1926.3	2033.1	2112.1
15°	1685.2	1692.7	1693.8	1700.9	1718.2	1769.4	1832.6	1841.7	1943.2	2071.5	2178.0
17.5°	1779.2	1781.9	1770.1	1755.1	1746.8	1779.5	1848.4	1857.8	1963.5	2109.5	2241.1
20°	1922.2	1920.7	1895.4	1854.8	1812.7	1817.9	1874.4	1884.1	1991.0	2142.9	2304.3
22.5°	2102.7	2097.4	2058.7	1983.8	1912.0	1881.9	1919.9	1928.1	2032.4	2190.7	2372.0
25°	2321.6	2310.0	2258.8	2158.4	2052.7	1975.2	1988.3	1996.2	2092.5	2244.1	2434.0
27.5°	2552.5	2540.9	2475.9	2354.3	2213.6	2092.9	2082.8	2089.6	2161.0	2283.6	2480.0
30°	2794.1	2781.6	2722.2	2586.1	2384.4	2214.8	2170.8	2173.4	2209.2	2305.0	2517.6
32.5°	3036.7	3025.0	2958.4	2800.4	2569.9	2345.7	2234.3	2231.0	2238.1	2327.3	2560.1
35°	3282.7	3287.2	3209.4	3034.4	2775.3	2491.2	2309.6	2302.4	2286.7	2372.7	2620.3
37.5°	3546.0	3543.0	3442.2	3259.4	2990.0	2649.2	2417.6	2416.4	2361.8	2458.9	2714.7
40°	3722.0	3723.9	3662.6	3489.6	3207.0	2824.2	2556.0	2553.3	2481.8	2587.9	2838.4
42.5°	3790.8	3803.2	3819.1	3709.2	3434.2	3026.9	2721.1	2717.3	2649.2	2773.0	2984.0
45°	3795.8	3820.6	3918.4	3904.5	3664.4	3259.0	2932.1	2921.6	2872.7	3019.0	3157.8
47.5°	3753.6	3779.2	3941.7	4020.7	3870.2	3503.8	3178.9	3170.6	3128.4	3326.6	3345.8
50°	3661.4	3685.9	3893.6	4077.5	4039.5	3739.3	3463.2	3441.4	3418.9	3682.1	3561.0
52.5°	3488.8	3535.9	3829.2	4091.0	4140.6	3948.5	3762.2	3748.0	3760.4	4057.2	3776.6
55°	3080.0	3132.6	3663.3	4079.7	4215.5	4124.1	4061.3	4060.5	4124.9	4450.7	4007.9
57.5°	2850.8	2888.1	3325.5	4060.5	4304.3	4298.6	4357.3	4364.5	4489.8	4879.1	4250.2
60°	2721.4	2760.5	3154.4	3989.4	4442.0	4524.3	4659.4	4673.7	4860.6	5353.4	4541.7
62.5°	2603.8	2646.6	3048.3	3844.7	4604.1	4847.1	5021.2	5034.1	5253.4	5840.9	4823.4
65°	2402.5	2451.0	2893.0	3749.5	4751.5	5268.0	5481.3	5490.0	5704.3	6351.7	5038.9
67.5°	2118.2	2162.5	2599.9	3539.2	4860.6	5779.2	6092.9	6097.8	6151.6	6712.5	5149.1
70°	1786.0	1802.9	2182.4	3105.1	4731.6	6257.3	6763.2	6764.3	6559.3	6943.4	5131.1
72.5°	1254.9	1294.8	1584.4	2350.6	4066.2	6199.0	7111.2	7123.9	6748.9	6826.8	4721.1
75°	769.6	811.8	993.8	1424.5	2579.6	4875.3	6570.2	6659.0	6393.5	6086.9	3856.7
77.5°	514.6	530.3	648.5	830.6	1168.7	2805.0	5051.3	5218.3	5311.3	4439.0	2466.5
80°	287.0	317.1	429.9	516.1	519.8	1114.5	3028.7	3067.9	2955.1	1767.5	761.0
82.5°	151.9	168.5	287.0	303.2	283.7	373.2	1128.8	1130.0	944.1	474.0	226.1
85°	117.7	131.6	196.7	185.1	144.9	165.5	372.4	392.7	321.2	194.1	73.7
87.5°	58.7	72.9	133.5	117.4	56.8	47.4	133.1	142.2	126.8	76.0	26.7
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°	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3
2.5°	1969.2	1972.6	1976.7	1972.2	1970.7	1964.6	1954.5	1952.2	1946.9	1947.3	1950.4
5°	1986.4	1992.1	1989.9	1972.6	1951.9	1922.9	1892.8	1867.2	1850.3	1849.1	1848.0
7.5°	2019.6	2023.3	2005.6	1956.3	1898.4	1831.5	1768.3	1713.0	1679.5	1671.3	1669.3
10°	2071.5	2070.7	2022.2	1922.9	1807.4	1687.8	1586.2	1509.5	1464.8	1451.5	1448.2
12.5°	2129.4	2120.8	2027.8	1862.0	1678.7	1512.9	1384.3	1298.9	1252.2	1237.2	1233.4
15°	2189.2	2167.8	2013.9	1771.0	1520.8	1324.5	1189.4	1110.4	1085.2	1077.0	1075.4
17.5°	2244.8	2203.5	1974.0	1647.5	1340.6	1136.8	1031.4	999.8	1005.8	1016.8	1017.2
20°	2299.4	2227.6	1910.1	1491.8	1150.6	982.1	946.4	969.7	998.3	1020.5	1023.5
22.5°	2353.2	2244.5	1827.7	1312.0	980.6	895.2	920.5	962.9	995.6	1019.8	1023.9
25°	2398.4	2248.7	1714.1	1120.2	862.5	862.5	908.1	948.3	980.6	1004.3	1008.5
27.5°	2414.9	2220.8	1553.9	942.6	803.1	847.4	890.7	924.2	951.7	976.8	981.4
30°	2421.3	2169.3	1368.8	800.1	778.7	831.3	867.4	896.0	922.0	945.6	949.8
32.5°	2422.4	2107.2	1172.4	719.2	761.7	814.4	838.5	863.6	891.5	900.9	902.4
35°	2429.6	2033.8	965.5	677.8	745.9	798.6	817.7	835.8	790.7	794.1	797.0
37.5°	2450.2	1961.3	792.6	654.5	735.7	790.3	813.2	747.8	712.4	704.2	703.0
40°	2489.0	1883.8	664.3	635.7	732.0	794.4	784.3	698.1	637.2	591.7	584.9
42.5°	2542.8	1800.3	582.3	623.3	734.6	814.4	744.0	650.4	549.1	519.8	516.1
45°	2603.3	1712.7	537.9	614.6	743.7	829.8	735.7	586.8	508.2	486.0	484.1
47.5°	2662.0	1605.4	515.0	610.9	756.0	817.3	700.8	567.2	488.6	477.0	478.1
50°	2729.3	1508.7	501.1	606.7	766.9	809.5	661.3	557.1	481.1	495.4	510.4
52.5°	2786.2	1408.7	488.6	598.4	771.1	795.5	651.2	558.9	481.1	508.5	522.9
55°	2853.5	1333.0	474.3	581.2	763.2	756.0	644.0	570.2	486.7	469.4	470.9
57.5°	2940.3	1308.3	458.5	554.1	736.9	698.5	640.6	581.2	483.4	472.5	476.2
60°	3060.8	1334.6	452.2	518.7	695.9	653.4	641.0	575.5	459.6	440.8	441.2
62.5°	3175.5	1364.0	451.8	496.5	645.5	613.1	632.3	557.1	447.6	436.7	440.8
65°	3213.1	1334.3	433.7	471.7	588.6	565.0	616.5	537.5	438.6	422.1	421.2
67.5°	3162.7	1242.0	397.2	431.5	523.6	508.9	595.8	514.2	424.3	410.7	408.5
70°	3013.0	1036.3	352.0	378.4	449.5	445.7	563.1	487.1	405.1	393.5	383.7
72.5°	2610.1	738.3	296.8	314.9	366.0	378.0	517.9	451.8	378.0	352.9	337.8
75°	2143.7	546.5	243.8	247.5	278.0	310.7	455.9	410.3	346.1	303.2	291.5
77.5°	1312.7	334.4	194.1	195.6	199.4	247.9	375.4	364.1	305.5	252.7	244.5
80°	425.1	182.4	140.3	147.5	136.2	181.7	290.4	309.9	262.1	211.4	202.3
82.5°	161.7	106.5	94.8	99.7	94.5	121.8	211.7	248.3	214.8	173.8	141.4
85°	78.2	60.2	56.1	62.8	58.3	62.4	135.4	182.8	162.8	113.2	105.4
87.5°	27.9	26.7	21.4	29.0	24.9	22.2	41.4	92.1	107.6	77.9	69.6
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)