

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: P399132

Luminaire Tested: **ARCH-L-PA3-100-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-100-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15189 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

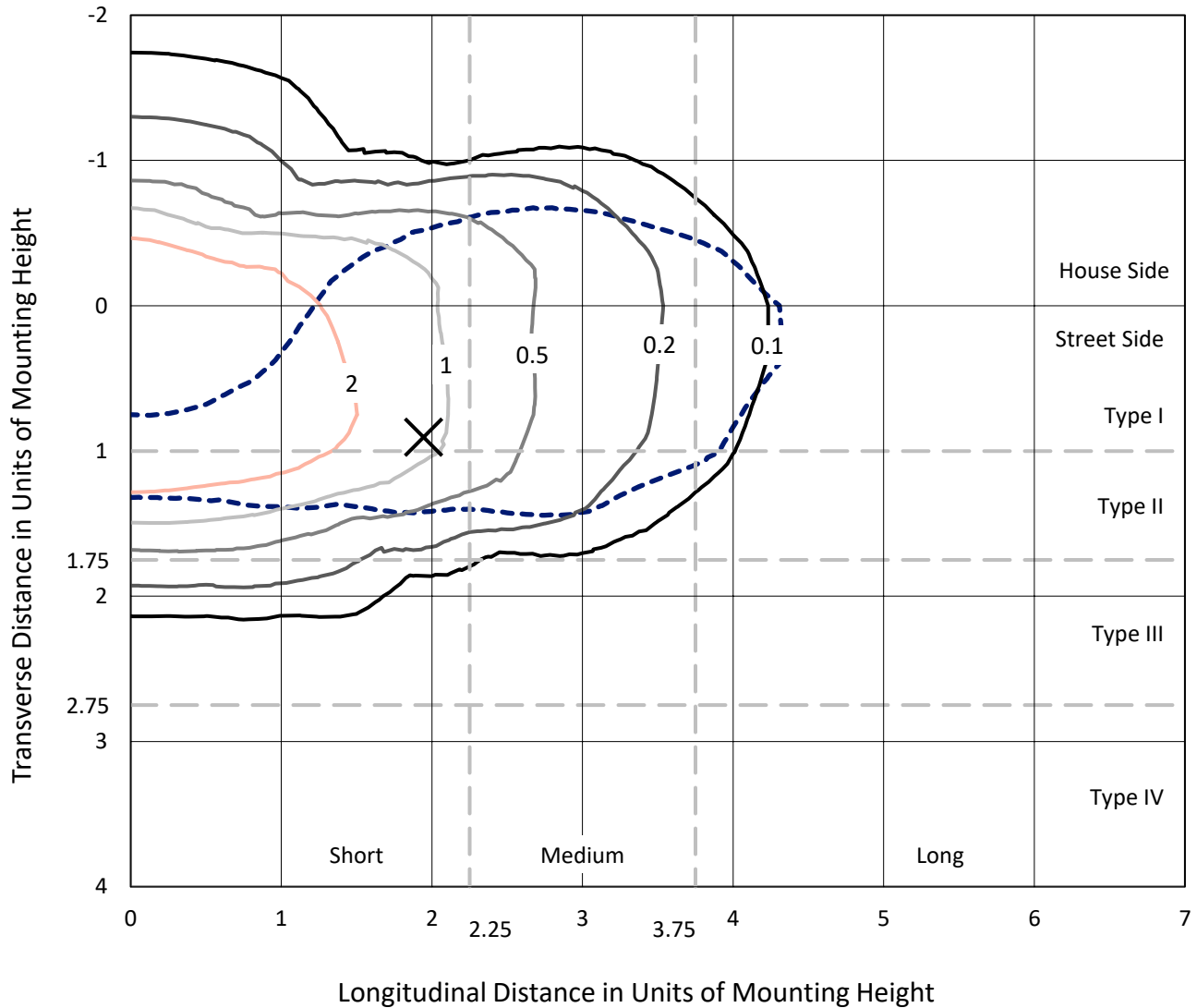
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

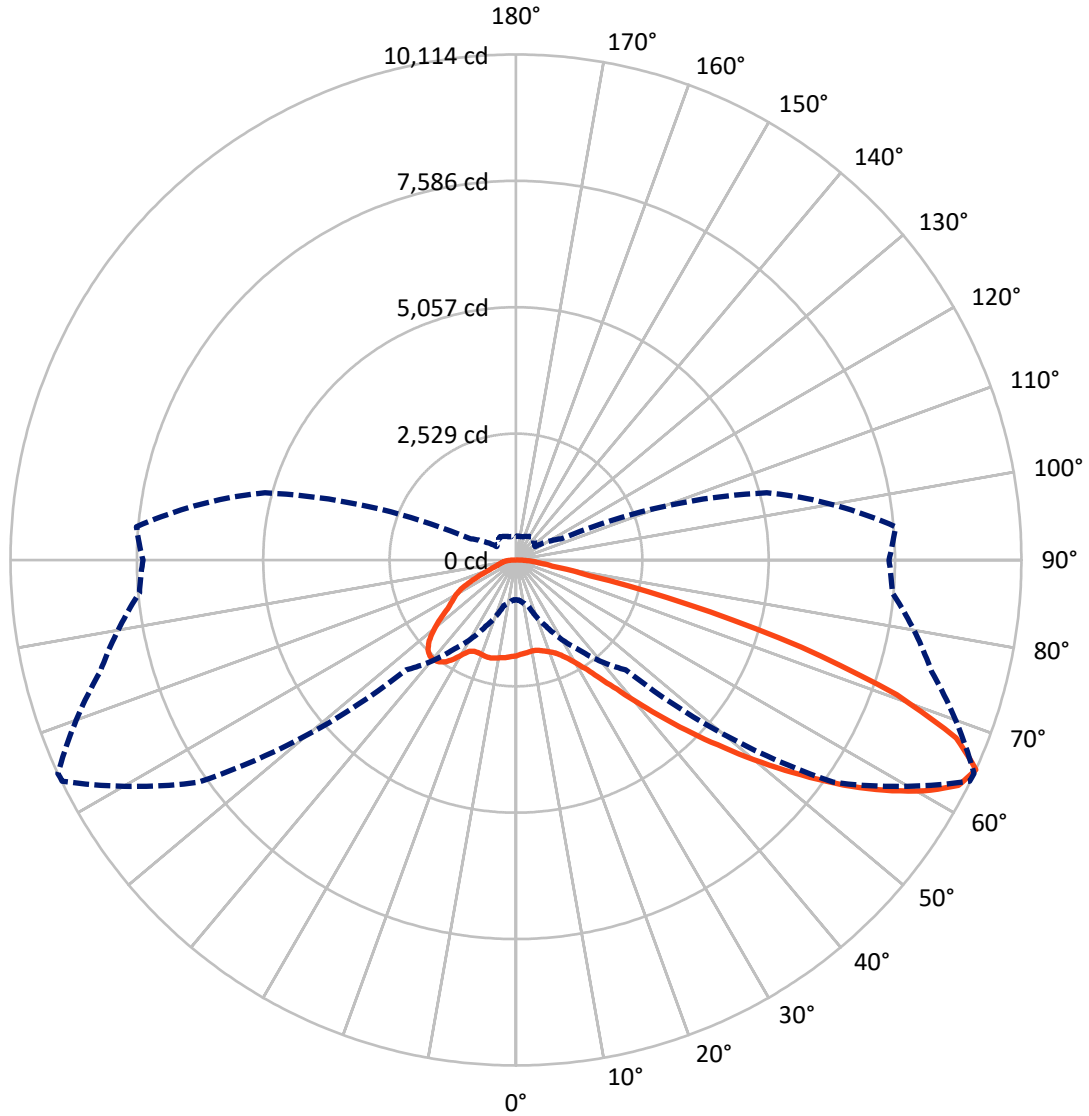
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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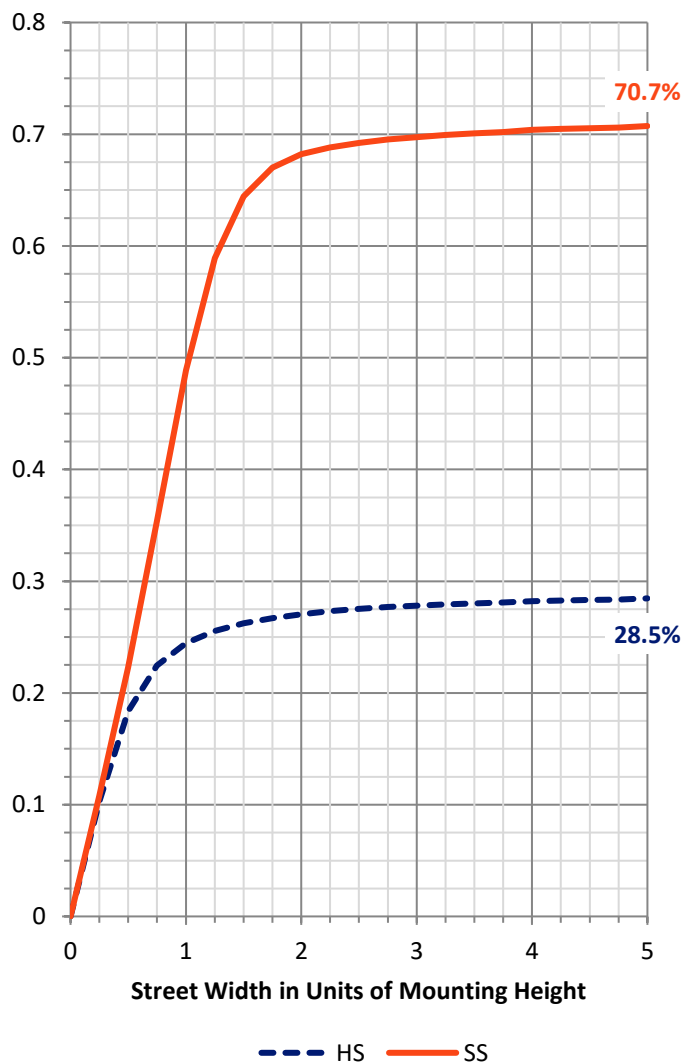
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4391.4	0.0	4391.4
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	10797.6	0.0	10797.6
	% Fixture	71.1	0.0	71.1
Total	Lumens	15189.0	0.0	15189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.2
10°-20°	545.9	3.6
20°-30°	969.7	6.4
30°-40°	1640.5	10.8
40°-50°	2855.8	18.8
50°-60°	3690.6	24.3
60°-70°	3229.5	21.3
70°-80°	1756.6	11.6
80°-90°	317.4	2.1
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°	15189.0	100.0
0°-180°	15189.0	100.0

Coefficient of Utilization



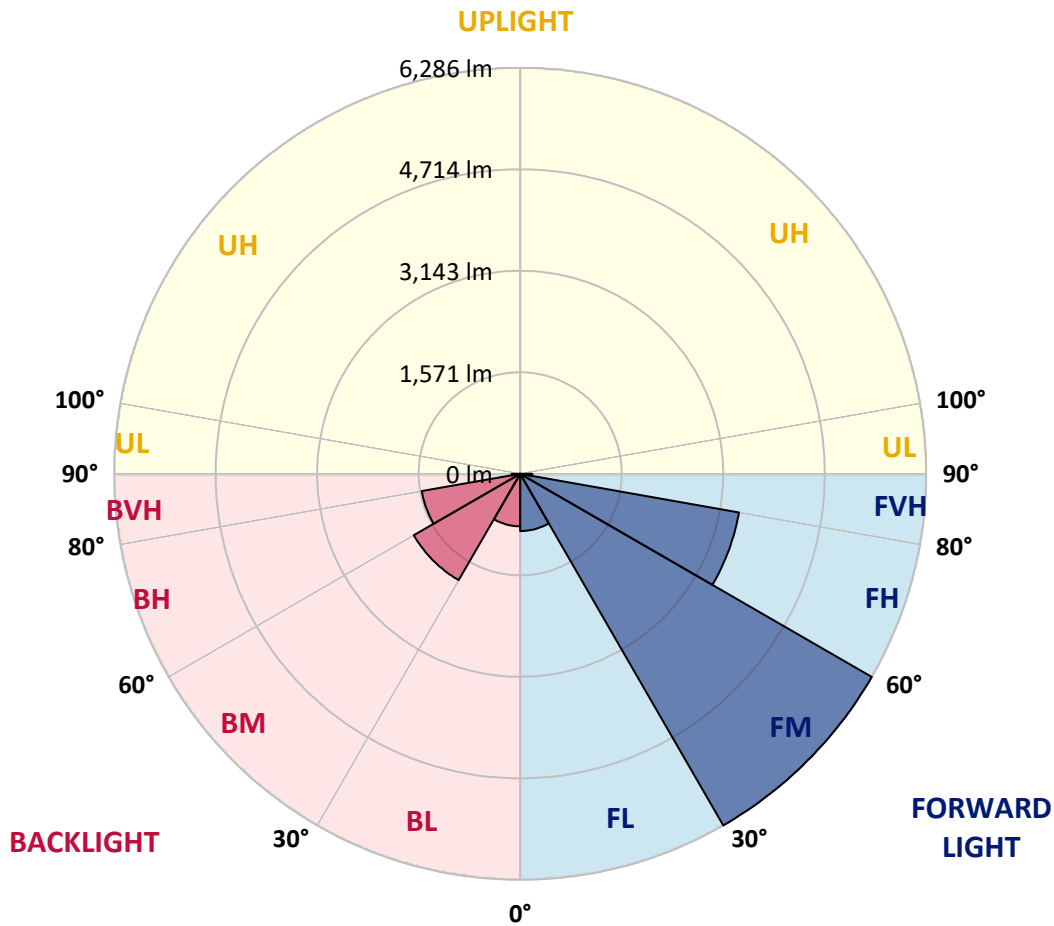
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	886.2	5.8			
FM (30°-60°)	6285.6	41.4			
FH (60°-80°)	3439.0	22.6			G2/5000
FVH (80°-90°)	186.8	1.2			G2/225
BL (0°-30°)	812.2	5.3	B2/1000		
BM (30°-60°)	1901.4	12.5	B2/2500		
BH (60°-80°)	1547.1	10.2	B3/2500		G3/2500
BVH (80°-90°)	130.6	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3
2.5°	1885.3	1883.3	1879.3	1883.3	1885.3	1889.3	1887.3	1891.3	1889.3	1895.3	1905.3
5°	1837.3	1833.3	1831.3	1841.3	1847.3	1857.3	1861.3	1875.3	1873.3	1883.3	1899.3
7.5°	1783.3	1783.3	1781.3	1793.3	1801.3	1819.3	1833.3	1857.3	1859.3	1877.3	1895.3
10°	1741.3	1743.3	1741.3	1751.3	1763.3	1785.3	1809.3	1843.3	1845.3	1871.3	1889.3
12.5°	1725.3	1725.3	1725.3	1739.3	1755.3	1785.3	1813.3	1849.3	1853.3	1881.3	1897.3
15°	1747.3	1749.3	1745.3	1759.3	1777.3	1813.3	1839.3	1877.3	1881.3	1907.3	1917.3
17.5°	1825.3	1833.3	1823.3	1831.3	1827.3	1855.3	1879.3	1917.3	1919.3	1941.3	1945.3
20°	1979.3	1987.3	1971.3	1961.3	1925.3	1923.3	1933.3	1963.3	1963.3	1977.3	1967.3
22.5°	2217.2	2225.2	2197.2	2159.2	2073.2	2031.2	2009.2	2023.2	2021.2	2027.2	2001.2
25°	2533.0	2531.0	2497.1	2427.1	2289.1	2187.2	2133.2	2111.2	2111.2	2099.2	2067.2
27.5°	2924.9	2894.9	2834.9	2751.0	2559.0	2417.1	2301.1	2245.2	2235.2	2199.2	2139.2
30°	3342.7	3320.7	3234.8	3112.8	2890.9	2709.0	2517.1	2405.1	2399.1	2321.1	2231.2
32.5°	3834.6	3798.6	3702.6	3556.7	3290.8	3034.9	2794.9	2625.0	2615.0	2491.1	2367.1
35°	4466.3	4436.3	4250.4	4104.5	3762.6	3426.7	3142.8	2916.9	2908.9	2757.0	2599.0
37.5°	5224.0	5146.1	4966.1	4692.2	4332.4	3934.5	3574.7	3290.8	3280.8	3112.8	2912.9
40°	5899.8	5829.8	5669.9	5418.0	5032.1	4590.3	4102.5	3758.6	3748.6	3544.7	3292.8
42.5°	6399.6	6351.6	6247.6	6101.7	5825.8	5557.9	4776.2	4324.4	4306.4	4042.5	3728.6
45°	6689.5	6651.5	6591.5	6627.5	6623.5	6573.5	5579.9	4998.1	4940.1	4598.3	4214.4
47.5°	6619.5	6585.5	6609.5	6889.4	7275.3	7565.1	6515.5	5687.9	5609.9	5164.1	4732.2
50°	6113.7	6127.7	6253.6	6789.4	7655.1	8298.9	7553.2	6473.6	6369.6	5733.8	5224.0
52.5°	5192.0	5226.0	5531.9	6281.6	7613.1	8774.7	8490.8	7285.3	7147.3	6289.6	5671.9
55°	4124.4	4210.4	4606.3	5394.0	7065.3	8808.7	9198.5	8100.9	7949.0	6811.4	6061.7
57.5°	3050.8	3178.8	3636.6	4360.4	6015.7	8270.9	9552.4	8880.7	8696.7	7329.2	6473.6
60°	1935.3	2013.2	2541.0	3394.7	4604.3	6955.4	9506.4	9544.4	9384.5	7845.0	6903.4
62.5°	1235.5	1273.5	1539.4	2421.1	3218.8	5150.1	9004.6	10046.2	9938.3	8314.9	7311.2
65°	793.7	809.7	945.6	1489.4	2191.2	3108.8	7755.1	10100.2	10114.2	8608.8	7563.1
67.5°	645.8	653.8	703.7	919.7	1549.4	1717.4	5402.0	9332.5	9502.4	8532.8	7477.2
70°	587.8	597.8	649.8	733.7	1199.5	1185.6	2615.0	7809.1	8087.0	8094.9	7095.3
72.5°	495.8	509.8	579.8	693.7	927.7	935.6	1107.6	5561.9	5971.7	7235.3	6521.5
75°	413.8	421.8	481.8	611.8	785.7	747.7	777.7	2948.9	3540.7	5801.8	5911.8
77.5°	335.9	343.9	387.9	487.8	697.7	581.8	611.8	1221.5	1509.4	3938.5	4832.2
80°	239.9	247.9	297.9	379.9	527.8	523.8	453.8	673.7	731.7	2129.2	3138.8
82.5°	171.9	177.9	225.9	271.9	365.9	525.8	341.9	457.8	479.8	943.6	1265.5
85°	116.0	116.0	155.9	179.9	235.9	331.9	275.9	309.9	323.9	447.8	341.9
87.5°	50.0	50.0	84.0	92.0	124.0	153.9	205.9	155.9	159.9	241.9	139.9
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°	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3
2.5°	1911.3	1913.3	1917.3	1929.3	1937.3	1949.3	1955.3	1963.3	1963.3	1959.3	1961.3
5°	1907.3	1913.3	1927.3	1949.3	1963.3	1985.3	2001.2	2013.2	2017.2	2013.2	2015.2
7.5°	1905.3	1915.3	1939.3	1971.3	1991.2	2019.2	2041.2	2055.2	2065.2	2061.2	2063.2
10°	1899.3	1915.3	1945.3	1985.3	2015.2	2043.2	2063.2	2069.2	2075.2	2071.2	2069.2
12.5°	1907.3	1925.3	1957.3	2005.2	2039.2	2061.2	2067.2	2057.2	2043.2	2035.2	2033.2
15°	1923.3	1941.3	1973.3	2023.2	2053.2	2061.2	2047.2	2015.2	1983.3	1965.3	1963.3
17.5°	1945.3	1957.3	1983.3	2027.2	2051.2	2041.2	2013.2	1975.3	1951.3	1937.3	1939.3
20°	1959.3	1959.3	1979.3	2013.2	2033.2	2025.2	1991.2	1949.3	1911.3	1893.3	1887.3
22.5°	1979.3	1969.3	1971.3	2001.2	2029.2	2017.2	1945.3	1871.3	1817.3	1797.3	1795.3
25°	2033.2	2005.2	1987.3	2005.2	2071.2	1973.3	1829.3	1743.3	1693.4	1675.4	1677.4
27.5°	2099.2	2061.2	2023.2	2053.2	2105.2	1873.3	1681.4	1583.4	1553.4	1539.4	1545.4
30°	2165.2	2115.2	2065.2	2173.2	2081.2	1717.4	1491.4	1395.5	1369.5	1359.5	1367.5
32.5°	2287.1	2205.2	2145.2	2333.1	2007.2	1539.4	1285.5	1197.5	1173.6	1161.6	1157.6
35°	2491.1	2387.1	2327.1	2473.1	1903.3	1341.5	1097.6	1035.6	1009.6	983.6	979.6
37.5°	2785.0	2659.0	2605.0	2553.0	1757.3	1145.6	953.6	911.7	873.7	833.7	831.7
40°	3136.8	2972.9	2932.9	2589.0	1555.4	961.6	853.7	813.7	765.7	727.7	729.7
42.5°	3542.7	3332.7	3246.8	2579.0	1305.5	863.7	781.7	737.7	695.7	661.8	659.8
45°	3976.5	3738.6	3540.7	2509.1	1057.6	795.7	737.7	685.7	643.8	605.8	601.8
47.5°	4456.3	4190.4	3812.6	2373.1	873.7	747.7	711.7	637.8	599.8	575.8	575.8
50°	4940.1	4622.3	4062.5	2167.2	765.7	711.7	673.7	611.8	581.8	561.8	561.8
52.5°	5354.0	5072.1	4268.4	1921.3	697.7	681.7	647.8	599.8	567.8	549.8	547.8
55°	5755.8	5489.9	4452.3	1677.4	641.8	641.8	641.8	589.8	553.8	537.8	535.8
57.5°	6155.7	5929.8	4644.2	1517.4	591.8	607.8	629.8	577.8	541.8	527.8	525.8
60°	6607.5	6457.6	4866.2	1405.5	547.8	571.8	613.8	563.8	521.8	509.8	507.8
62.5°	7087.3	7087.3	5068.1	1247.5	507.8	541.8	589.8	545.8	503.8	493.8	491.8
65°	7463.2	7625.1	5198.0	1011.6	467.8	511.8	561.8	521.8	479.8	477.8	473.8
67.5°	7507.2	7761.1	5116.1	763.7	431.8	479.8	533.8	495.8	455.8	455.8	449.8
70°	7191.3	7449.2	4860.2	571.8	405.8	447.8	497.8	463.8	425.8	429.8	419.8
72.5°	6663.5	6727.5	4224.4	451.8	375.9	413.8	453.8	427.8	393.9	393.9	379.9
75°	5967.8	5611.9	3068.8	377.9	339.9	373.9	409.8	387.9	357.9	347.9	339.9
77.5°	4750.2	4066.5	1783.3	325.9	309.9	335.9	359.9	343.9	317.9	295.9	295.9
80°	2894.9	2383.1	787.7	281.9	273.9	293.9	309.9	291.9	269.9	247.9	241.9
82.5°	1101.6	919.7	381.9	241.9	239.9	251.9	263.9	245.9	229.9	219.9	189.9
85°	301.9	277.9	261.9	201.9	197.9	195.9	209.9	201.9	179.9	147.9	132.0
87.5°	114.0	130.0	141.9	124.0	132.0	122.0	139.9	128.0	114.0	74.0	66.0
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)