

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: P572901

Luminaire Tested: **ARCH-S-PA2-130-730-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14764 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

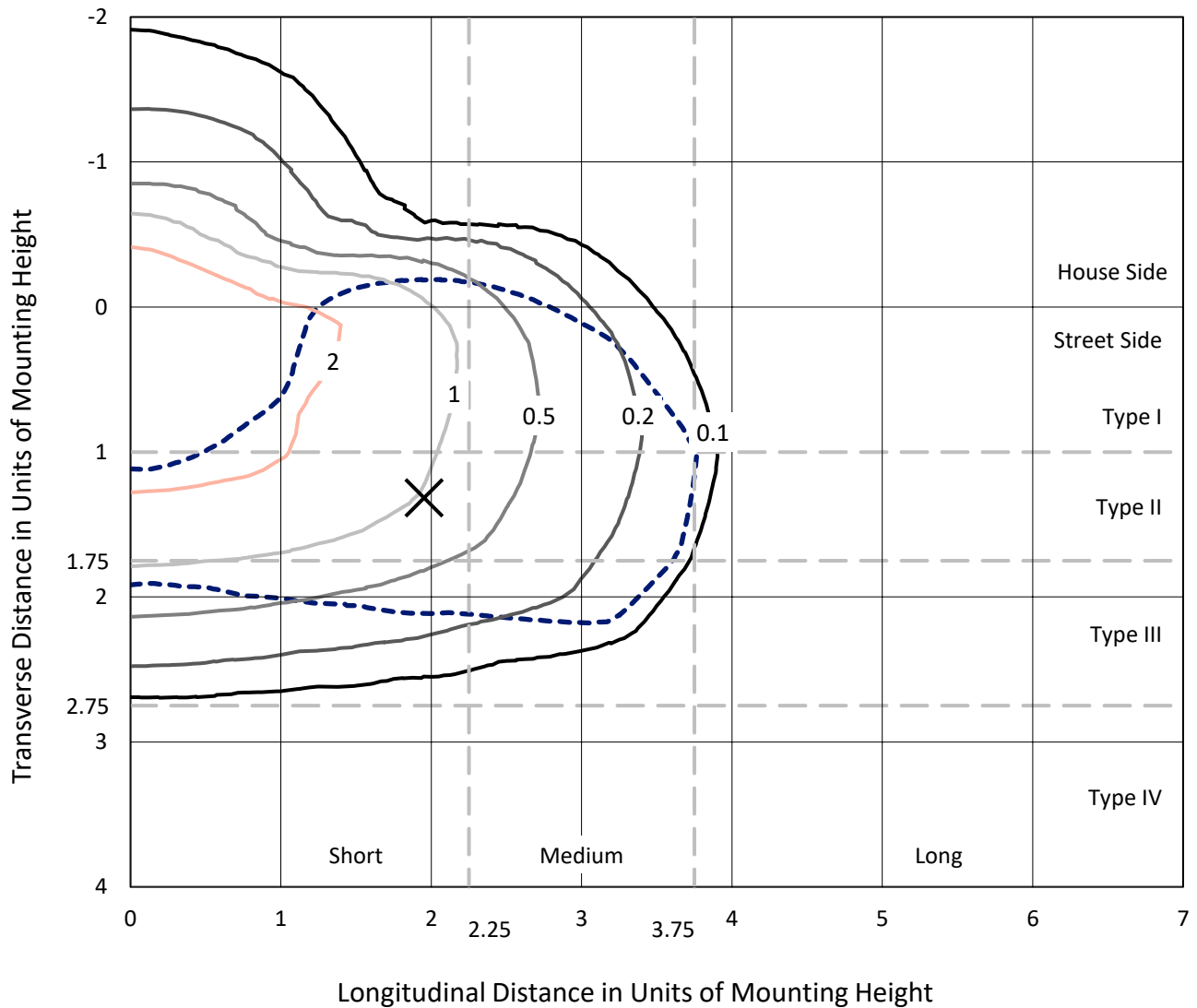
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

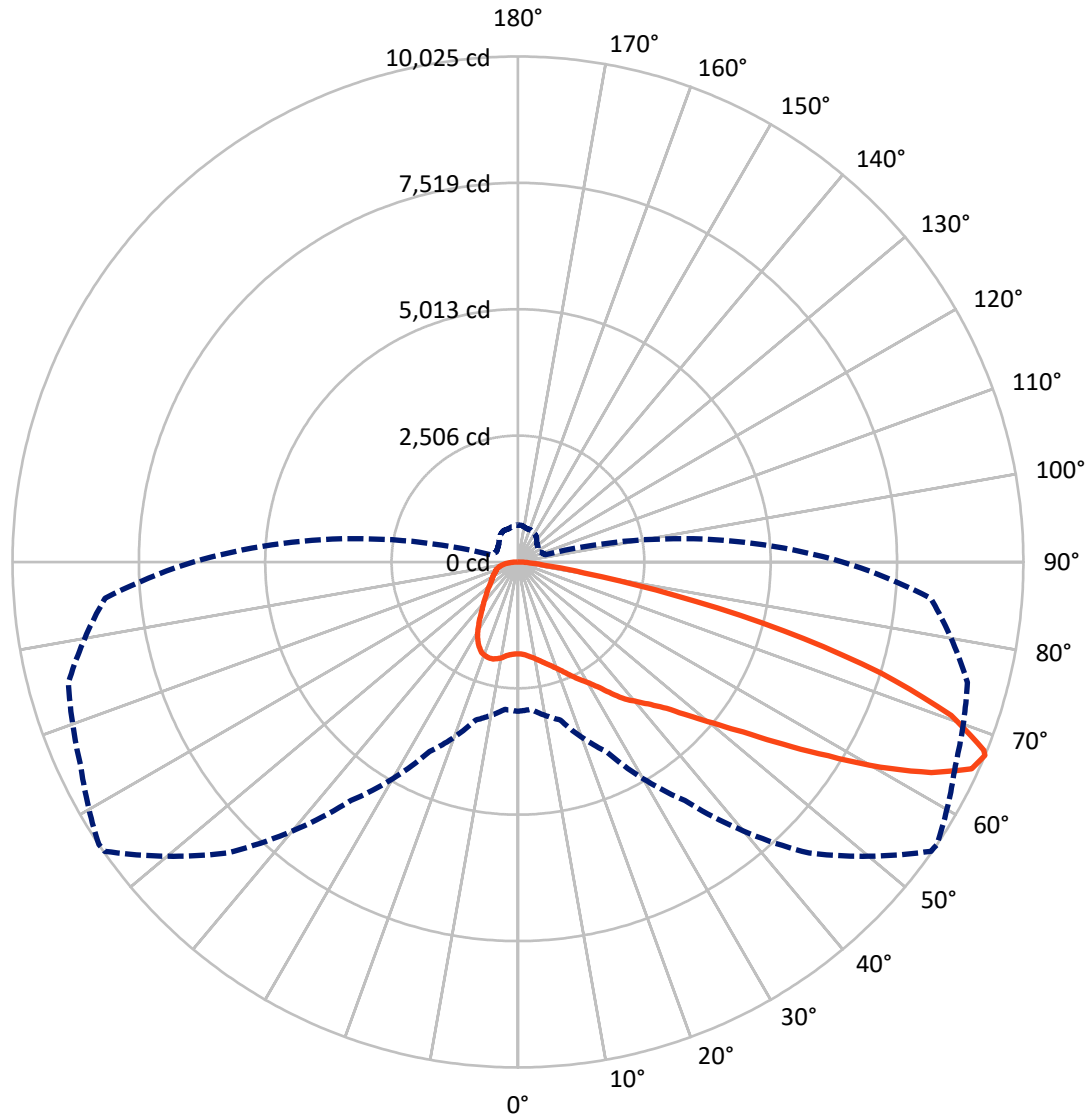
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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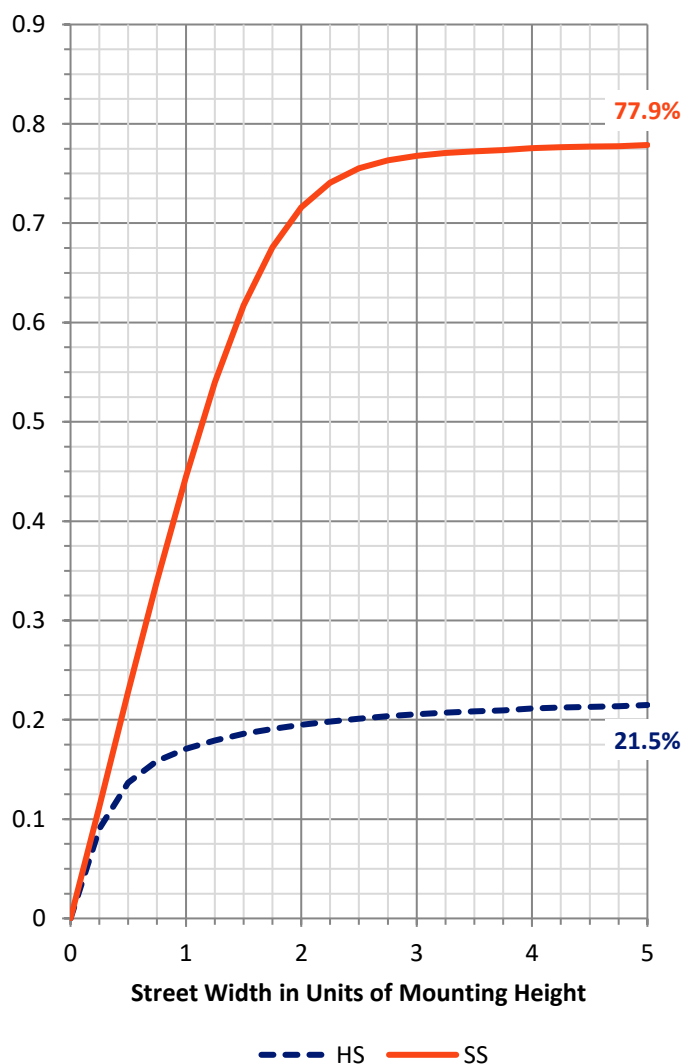
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3230.1	0.0	3230.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11533.9	0.0	11533.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	14764.0	0.0	14764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	1.2
10°-20°	575.1	3.9
20°-30°	1000.9	6.8
30°-40°	1467.6	9.9
40°-50°	2147.2	14.5
50°-60°	3355.8	22.7
60°-70°	3988.6	27.0
70°-80°	1816.5	12.3
80°-90°	232.9	1.6
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°	14764.0	100.0
0°-180°	14764.0	100.0

Coefficient of Utilization

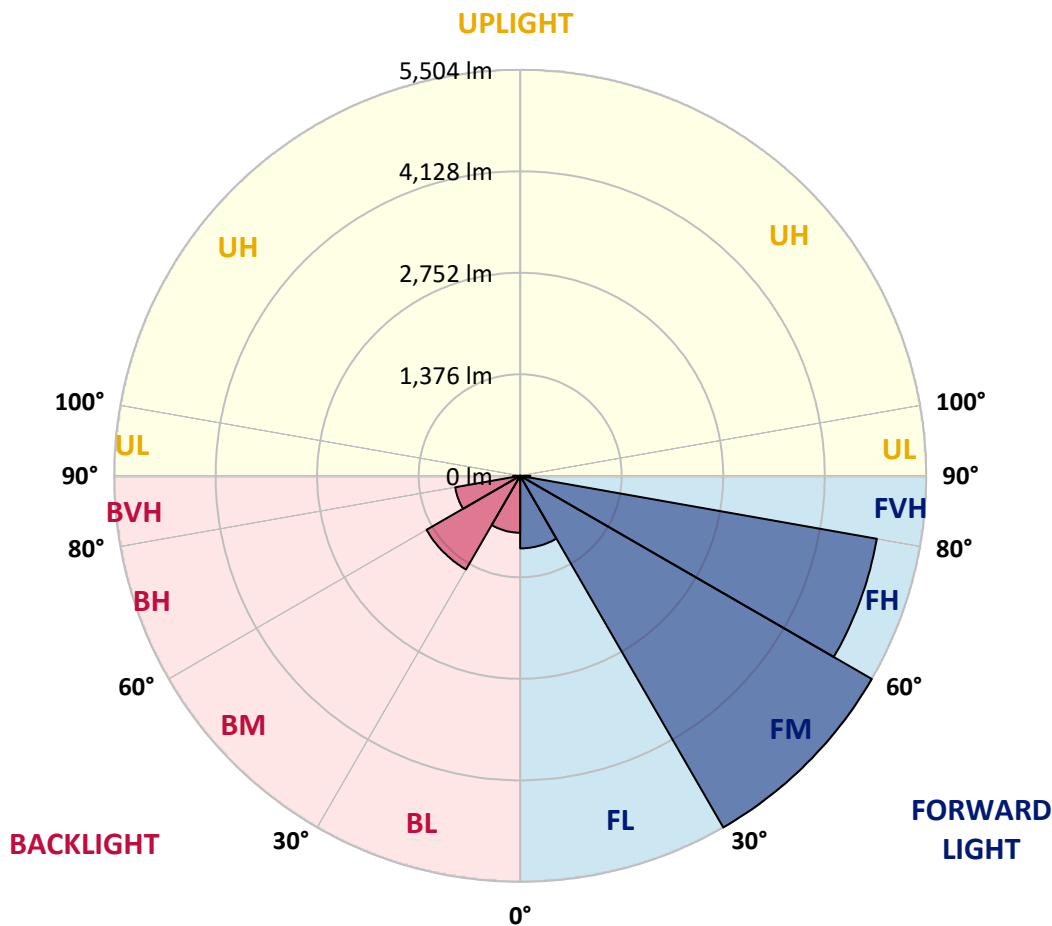


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	983.4	6.7			
FM (30°-60°)	5504.4	37.3			
FH (60°-80°)	4910.3	33.3			G2/5000
FVH (80°-90°)	135.8	0.9			G2/225
BL (0°-30°)	771.9	5.2	B2/1000		
BM (30°-60°)	1466.2	9.9	B2/2500		
BH (60°-80°)	894.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	97.1	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8
2.5°	1850.8	1842.8	1838.8	1842.8	1838.8	1830.8	1834.8	1830.8	1826.8	1822.8	1822.8
5°	1874.7	1866.7	1862.7	1866.7	1870.7	1862.7	1862.7	1862.7	1850.8	1846.8	1838.8
7.5°	1890.7	1878.7	1878.7	1886.7	1894.7	1898.7	1906.7	1902.7	1890.7	1882.7	1866.7
10°	1942.7	1926.7	1926.7	1926.7	1934.7	1942.7	1950.7	1954.7	1950.7	1946.7	1934.7
12.5°	2022.6	2006.7	2006.7	2006.7	2006.7	2002.7	2014.6	2018.6	2026.6	2026.6	2006.7
15°	2130.6	2110.6	2102.6	2086.6	2082.6	2074.6	2090.6	2090.6	2102.6	2106.6	2086.6
17.5°	2234.5	2210.5	2202.5	2186.5	2170.5	2150.6	2166.5	2170.5	2194.5	2198.5	2166.5
20°	2342.4	2334.4	2322.4	2298.5	2270.5	2250.5	2266.5	2262.5	2282.5	2290.5	2250.5
22.5°	2482.3	2462.3	2454.4	2422.4	2390.4	2370.4	2370.4	2378.4	2398.4	2398.4	2338.4
25°	2650.2	2622.2	2602.3	2566.3	2526.3	2502.3	2506.3	2514.3	2542.3	2522.3	2430.4
27.5°	2858.1	2830.1	2802.1	2730.2	2690.2	2642.2	2638.2	2646.2	2690.2	2638.2	2518.3
30°	3053.9	3042.0	3018.0	2962.0	2898.1	2818.1	2782.1	2786.1	2818.1	2746.2	2594.3
32.5°	3221.8	3205.8	3193.9	3153.9	3109.9	3014.0	2966.0	2970.0	2966.0	2878.1	2686.2
35°	3421.7	3397.7	3389.7	3353.7	3297.8	3233.8	3213.8	3205.8	3181.9	3061.9	2806.1
37.5°	3613.6	3589.6	3577.6	3557.6	3513.6	3457.7	3457.7	3453.7	3405.7	3237.8	2926.0
40°	3841.4	3813.4	3777.5	3765.5	3729.5	3689.5	3657.5	3637.6	3553.6	3401.7	3157.9
42.5°	4117.2	4101.2	4081.3	4029.3	3973.3	3965.3	3873.4	3865.4	3805.4	3717.5	3485.7
45°	4513.0	4481.0	4453.0	4437.0	4369.1	4297.1	4169.2	4137.2	4137.2	4117.2	3869.4
47.5°	4912.7	4856.7	4896.7	4884.7	4868.7	4788.8	4540.9	4544.9	4537.0	4588.9	4433.0
50°	5180.5	5148.5	5260.5	5312.4	5424.4	5424.4	5068.6	5024.6	5056.6	5208.5	5008.6
52.5°	5388.4	5368.4	5496.3	5700.2	6031.9	6063.9	5696.2	5604.2	5648.2	5864.1	5784.1
55°	5556.3	5536.3	5684.2	6039.9	6571.6	6767.5	6419.7	6379.7	6291.8	6523.6	6547.6
57.5°	5656.2	5612.2	5836.1	6311.8	7011.3	7463.0	7267.1	7255.1	7051.3	7267.1	7375.0
60°	5504.3	5476.3	5784.1	6423.7	7367.1	8118.5	8262.4	8262.4	7898.7	8014.6	8146.5
62.5°	5012.6	4976.7	5300.4	6163.9	7411.0	8654.2	9249.8	9201.8	8714.1	8710.1	8594.2
65°	4077.3	4033.3	4397.0	5308.4	6855.4	8718.1	9917.3	9889.4	9325.7	9165.8	8622.2
67°	2962.0	2934.0	3245.8	4149.2	5776.1	8162.5	10001.3	10025.3	9569.6	9229.8	8218.5
67.5°	2658.2	2654.2	2914.0	3809.4	5460.3	7958.7	9945.3	9969.3	9565.6	9177.8	8058.6
70°	1239.2	1295.1	1539.0	2182.5	3681.5	6267.8	9025.9	9117.9	9053.9	8578.2	6787.4
72.5°	575.6	599.6	707.5	1055.3	1978.7	4041.3	7315.1	7534.9	7814.8	7359.1	5376.4
75°	355.8	363.8	423.7	547.6	931.4	1942.7	5208.5	5448.3	5872.1	5536.3	3437.7
77.5°	279.8	283.8	323.8	391.7	543.6	835.4	2858.1	3157.9	3709.5	3273.8	1730.8
80°	207.9	215.9	247.8	303.8	383.7	427.7	1215.2	1327.1	1790.8	1371.1	719.5
82.5°	151.9	159.9	191.9	219.9	267.8	271.8	495.7	523.6	767.5	555.6	311.8
85°	127.9	127.9	147.9	163.9	179.9	151.9	243.8	239.8	295.8	251.8	123.9
87.5°	60.0	64.0	139.9	103.9	87.9	64.0	72.0	75.9	91.9	99.9	48.0
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°	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8
2.5°	1818.8	1818.8	1818.8	1822.8	1826.8	1826.8	1830.8	1830.8	1834.8	1838.8	1846.8
5°	1834.8	1834.8	1830.8	1834.8	1842.8	1846.8	1854.8	1862.7	1870.7	1878.7	1882.7
7.5°	1866.7	1862.7	1862.7	1862.7	1870.7	1878.7	1890.7	1898.7	1910.7	1914.7	1922.7
10°	1926.7	1918.7	1918.7	1922.7	1926.7	1914.7	1910.7	1906.7	1918.7	1926.7	1934.7
12.5°	1998.7	1990.7	1986.7	1974.7	1958.7	1934.7	1914.7	1898.7	1902.7	1910.7	1922.7
15°	2074.6	2058.6	2050.6	2022.6	1982.7	1930.7	1898.7	1878.7	1878.7	1878.7	1890.7
17.5°	2154.6	2138.6	2106.6	2054.6	1978.7	1906.7	1866.7	1830.8	1814.8	1810.8	1818.8
20°	2230.5	2206.5	2154.6	2074.6	1954.7	1858.8	1806.8	1746.8	1722.8	1706.9	1714.8
22.5°	2302.5	2270.5	2198.5	2074.6	1914.7	1786.8	1694.9	1614.9	1574.9	1566.9	1570.9
25°	2378.4	2338.4	2242.5	2050.6	1826.8	1678.9	1551.0	1467.0	1415.0	1407.1	1419.0
27.5°	2454.4	2394.4	2278.5	1986.7	1726.8	1531.0	1395.1	1315.1	1287.1	1271.1	1275.1
30°	2518.3	2462.3	2314.4	1898.7	1590.9	1359.1	1235.2	1199.2	1179.2	1171.2	1171.2
32.5°	2602.3	2550.3	2338.4	1794.8	1431.0	1203.2	1123.2	1095.3	1079.3	1059.3	1063.3
35°	2706.2	2658.2	2326.4	1662.9	1279.1	1099.3	1035.3	995.3	959.4	931.4	927.4
37.5°	2846.1	2810.1	2266.5	1503.0	1139.2	1023.3	959.4	907.4	855.4	811.5	803.5
40°	3077.9	2994.0	2178.5	1327.1	1043.3	963.4	887.4	823.4	759.5	711.5	699.5
42.5°	3373.7	3197.9	2058.6	1147.2	963.4	899.4	823.4	739.5	679.5	635.6	635.6
45°	3717.5	3417.7	1914.7	1011.3	879.4	835.4	743.5	671.5	635.6	607.6	603.6
47.5°	4125.2	3637.6	1730.8	903.4	811.5	779.5	687.5	643.6	619.6	595.6	591.6
50°	4672.9	3933.4	1594.9	811.5	743.5	715.5	671.5	635.6	611.6	595.6	591.6
52.5°	5300.4	4313.1	1499.0	739.5	687.5	675.5	667.6	639.6	615.6	603.6	599.6
55°	5980.0	4780.8	1407.1	679.5	643.6	659.6	675.5	647.6	631.6	615.6	607.6
57.5°	6619.6	5176.5	1259.2	627.6	611.6	639.6	671.5	651.6	631.6	619.6	615.6
60°	7055.3	5376.4	1055.3	579.6	579.6	611.6	659.6	631.6	611.6	615.6	615.6
62.5°	7195.2	5300.4	835.4	535.6	547.6	579.6	623.6	607.6	599.6	619.6	619.6
65°	6987.3	4992.6	667.6	499.7	515.7	539.6	603.6	619.6	643.6	687.5	691.5
67°	6443.7	4497.0	563.6	471.7	487.7	527.6	627.6	683.5	683.5	731.5	731.5
67.5°	6283.8	4329.1	547.6	463.7	483.7	527.6	639.6	699.5	683.5	739.5	739.5
70°	5108.6	3405.7	463.7	439.7	467.7	555.6	691.5	703.5	667.6	719.5	715.5
72.5°	3789.5	2462.3	423.7	415.7	435.7	523.6	687.5	675.5	623.6	639.6	627.6
75°	2342.4	1427.0	391.7	383.7	395.7	463.7	635.6	615.6	555.6	543.6	531.6
77.5°	1131.2	723.5	335.8	347.8	359.8	403.7	559.6	539.6	487.7	459.7	455.7
80°	491.7	371.8	287.8	307.8	311.8	343.8	463.7	439.7	391.7	347.8	347.8
82.5°	243.8	207.9	227.8	255.8	247.8	275.8	363.8	323.8	287.8	239.8	231.8
85°	111.9	119.9	167.9	191.9	167.9	171.9	247.8	227.8	179.9	135.9	139.9
87.5°	40.0	56.0	95.9	115.9	83.9	79.9	131.9	95.9	56.0	16.0	20.0
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)