

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: P572685

Luminaire Tested: **ARCH-S-PA2-100-750-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572685
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-PA2-100-750-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13907 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

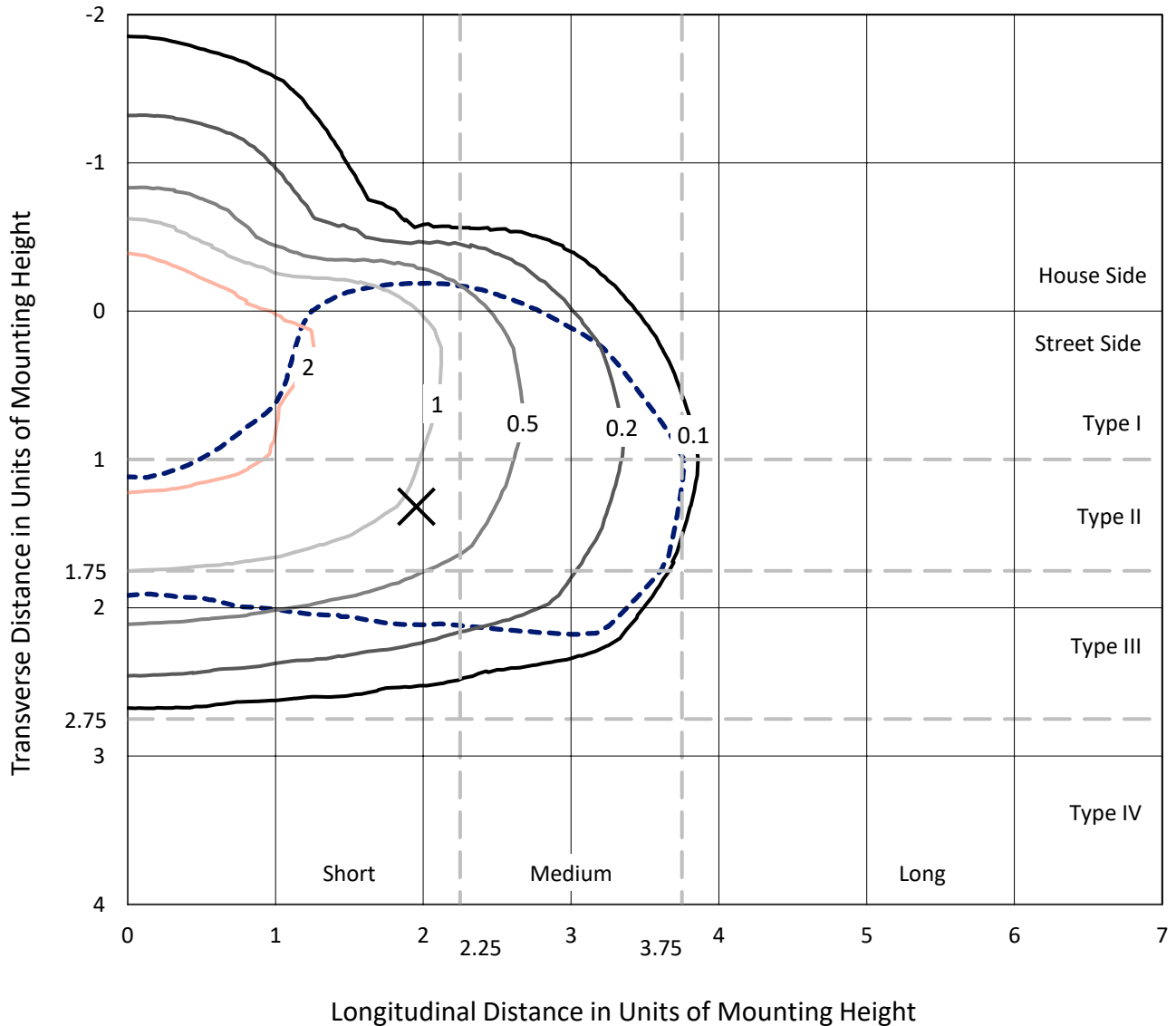
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

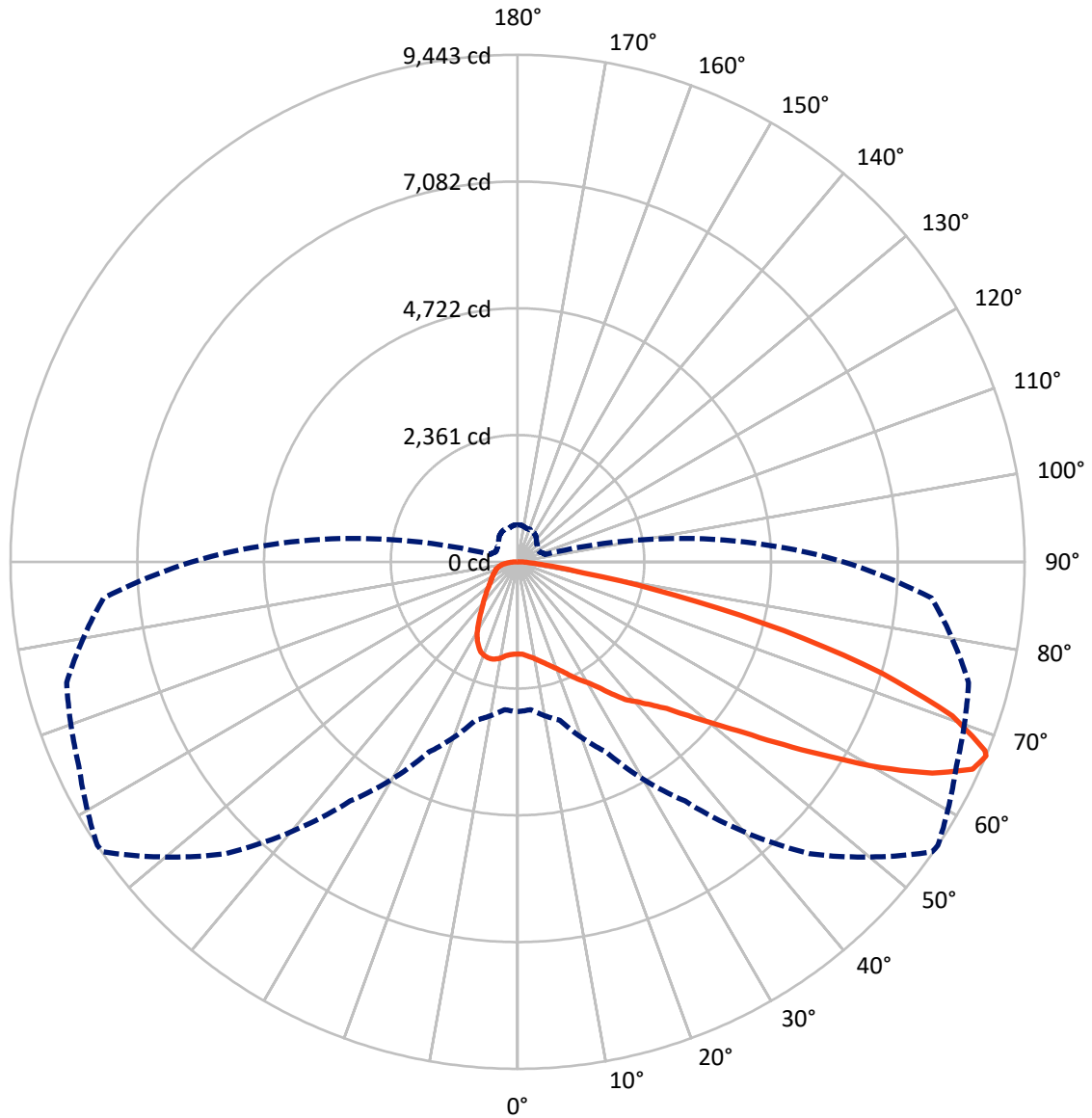
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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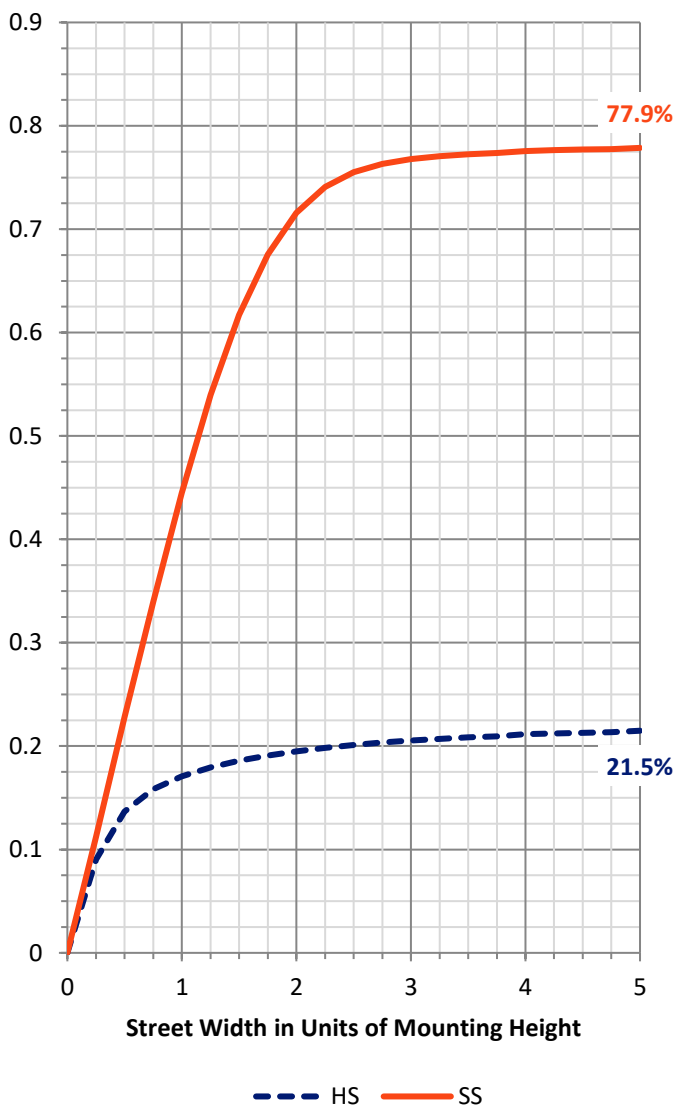
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3042.6	0.0	3042.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10864.4	0.0	10864.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	13907.0	0.0	13907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	1.2
10°-20°	541.7	3.9
20°-30°	942.8	6.8
30°-40°	1382.4	9.9
40°-50°	2022.6	14.5
50°-60°	3161.0	22.7
60°-70°	3757.1	27.0
70°-80°	1711.1	12.3
80°-90°	219.4	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°	13907.0	100.0
0°-180°	13907.0	100.0

Coefficient of Utilization



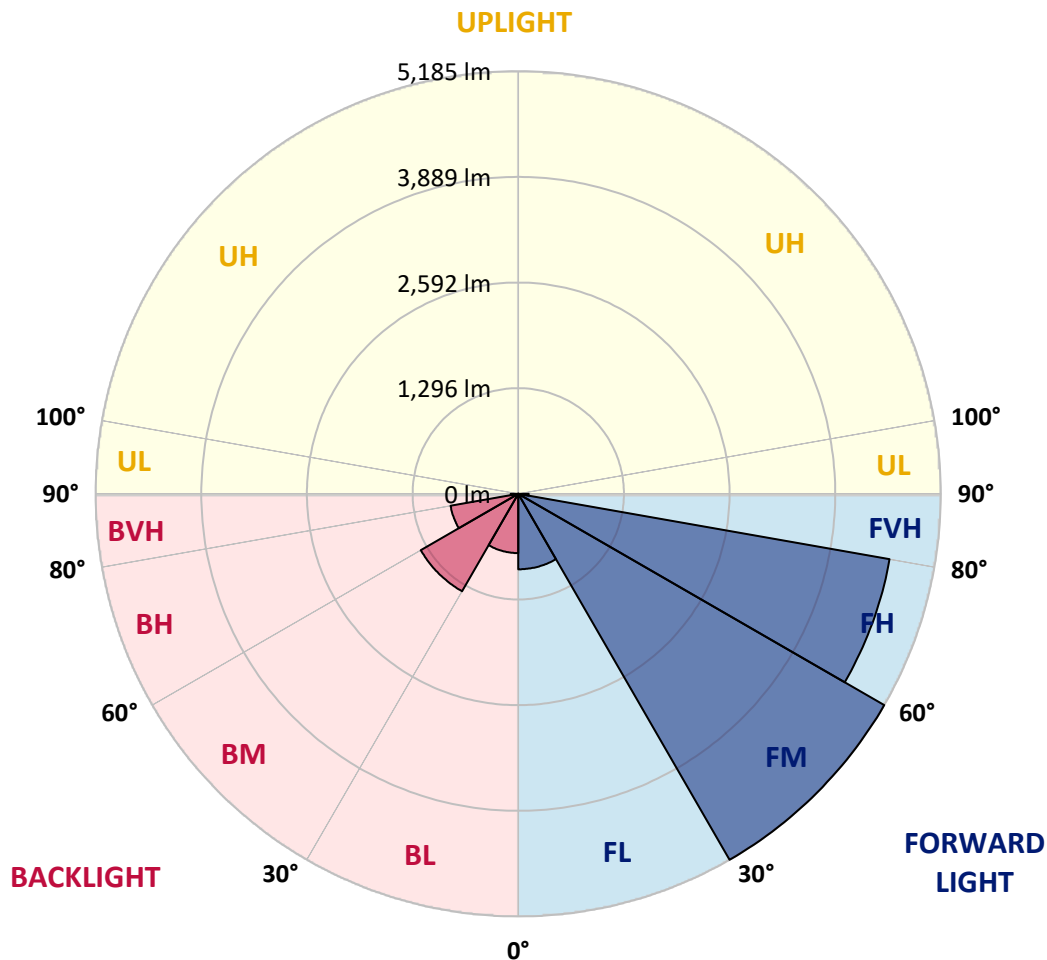
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.3	6.7			
FM (30°-60°)	5184.9	37.3			
FH (60°-80°)	4625.3	33.3			G2/5000
FVH (80°-90°)	127.9	0.9			G2/225
BL (0°-30°)	727.1	5.2	B2/1000		
BM (30°-60°)	1381.1	9.9	B2/2500		
BH (60°-80°)	842.9	6.1	B2/1000		G2/1000
BVH (80°-90°)	91.5	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°	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0
2.5°	1743.3	1735.8	1732.0	1735.8	1732.0	1724.5	1728.3	1724.5	1720.7	1717.0	1717.0
5°	1765.9	1758.4	1754.6	1758.4	1762.2	1754.6	1754.6	1754.6	1743.3	1739.6	1732.0
7.5°	1781.0	1769.7	1769.7	1777.2	1784.7	1788.5	1796.0	1792.3	1781.0	1773.4	1758.4
10°	1829.9	1814.9	1814.9	1814.9	1822.4	1829.9	1837.5	1841.2	1837.5	1833.7	1822.4
12.5°	1905.2	1890.2	1890.2	1890.2	1890.2	1886.4	1897.7	1901.5	1909.0	1909.0	1890.2
15°	2006.9	1988.1	1980.5	1965.5	1961.7	1954.2	1969.2	1969.2	1980.5	1984.3	1965.5
17.5°	2104.8	2082.2	2074.7	2059.6	2044.5	2025.7	2040.8	2044.5	2067.1	2070.9	2040.8
20°	2206.5	2198.9	2187.6	2165.0	2138.7	2119.9	2134.9	2131.2	2150.0	2157.5	2119.9
22.5°	2338.2	2319.4	2311.9	2281.8	2251.6	2232.8	2232.8	2240.3	2259.2	2259.2	2202.7
25°	2496.4	2470.0	2451.2	2417.3	2379.7	2357.1	2360.8	2368.4	2394.7	2375.9	2289.3
27.5°	2692.2	2665.8	2639.5	2571.7	2534.0	2488.9	2485.1	2492.6	2534.0	2485.1	2372.1
30°	2876.7	2865.4	2842.8	2790.1	2729.8	2654.5	2620.6	2624.4	2654.5	2586.8	2443.7
32.5°	3034.8	3019.8	3008.5	2970.8	2929.4	2839.0	2793.8	2797.6	2793.8	2711.0	2530.3
35°	3223.1	3200.5	3193.0	3159.1	3106.4	3046.1	3027.3	3019.8	2997.2	2884.2	2643.2
37.5°	3403.8	3381.2	3369.9	3351.1	3309.7	3257.0	3257.0	3253.2	3208.0	3049.9	2756.2
40°	3618.4	3592.1	3558.2	3546.9	3513.0	3475.4	3445.2	3426.4	3347.3	3204.3	2974.6
42.5°	3878.2	3863.2	3844.4	3795.4	3742.7	3735.2	3648.6	3641.0	3584.6	3501.7	3283.3
45°	4251.0	4220.9	4194.5	4179.5	4115.5	4047.7	3927.2	3897.1	3897.1	3878.2	3644.8
47.5°	4627.5	4574.8	4612.5	4601.2	4586.1	4510.8	4277.4	4281.1	4273.6	4322.5	4175.7
50°	4879.8	4849.7	4955.1	5004.1	5109.5	5109.5	4774.4	4733.0	4763.1	4906.2	4717.9
52.5°	5075.6	5056.8	5177.3	5369.3	5681.8	5711.9	5365.5	5278.9	5320.3	5523.7	5448.4
55°	5233.7	5214.9	5354.2	5689.3	6190.1	6374.6	6047.0	6009.4	5926.6	6144.9	6167.5
57.5°	5327.9	5286.5	5497.3	5945.4	6604.3	7029.8	6845.3	6834.0	6642.0	6845.3	6946.9
60°	5184.8	5158.4	5448.4	6050.8	6939.4	7647.3	7782.8	7782.8	7440.2	7549.4	7673.6
62.5°	4721.7	4687.8	4992.8	5806.1	6980.8	8151.8	8712.9	8667.7	8208.3	8204.6	8095.4
65°	3840.6	3799.2	4141.8	5000.3	6457.5	8212.1	9341.7	9315.3	8784.4	8633.8	8121.7
67°	2790.1	2763.7	3057.4	3908.4	5440.8	7688.7	9420.7	9443.3	9014.1	8694.0	7741.4
67.5°	2503.9	2500.1	2744.9	3588.3	5143.4	7496.7	9368.0	9390.6	9010.3	8645.1	7590.8
70°	1167.2	1220.0	1449.6	2055.8	3467.8	5904.0	8502.0	8588.6	8528.4	8080.3	6393.5
72.5°	542.2	564.8	666.5	994.0	1863.8	3806.7	6890.5	7097.6	7361.1	6931.9	5064.3
75°	335.1	342.6	399.1	515.8	877.3	1829.9	4906.2	5132.1	5531.2	5214.9	3238.1
77.5°	263.6	267.3	305.0	369.0	512.1	786.9	2692.2	2974.6	3494.2	3083.8	1630.4
80°	195.8	203.3	233.4	286.2	361.5	402.9	1144.6	1250.1	1686.8	1291.5	677.8
82.5°	143.1	150.6	180.7	207.1	252.3	256.0	466.9	493.3	722.9	523.4	293.7
85°	120.5	120.5	139.3	154.4	169.4	143.1	229.7	225.9	278.6	237.2	116.7
87.5°	56.5	60.2	131.8	97.9	82.8	60.2	67.8	71.5	86.6	94.1	45.2
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°	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0
2.5°	1713.2	1713.2	1713.2	1717.0	1720.7	1720.7	1724.5	1724.5	1728.3	1732.0	1739.6
5°	1728.3	1728.3	1724.5	1728.3	1735.8	1739.6	1747.1	1754.6	1762.2	1769.7	1773.4
7.5°	1758.4	1754.6	1754.6	1754.6	1762.2	1769.7	1781.0	1788.5	1799.8	1803.6	1811.1
10°	1814.9	1807.3	1807.3	1811.1	1814.9	1803.6	1799.8	1796.0	1807.3	1814.9	1822.4
12.5°	1882.6	1875.1	1871.3	1860.1	1845.0	1822.4	1803.6	1788.5	1792.3	1799.8	1811.1
15°	1954.2	1939.1	1931.6	1905.2	1867.6	1818.6	1788.5	1769.7	1769.7	1769.7	1781.0
17.5°	2029.5	2014.4	1984.3	1935.4	1863.8	1796.0	1758.4	1724.5	1709.4	1705.7	1713.2
20°	2101.0	2078.4	2029.5	1954.2	1841.2	1750.9	1701.9	1645.4	1622.8	1607.8	1615.3
22.5°	2168.8	2138.7	2070.9	1954.2	1803.6	1683.1	1596.5	1521.2	1483.5	1476.0	1479.8
25°	2240.3	2202.7	2112.3	1931.6	1720.7	1581.4	1460.9	1381.9	1332.9	1325.4	1336.7
27.5°	2311.9	2255.4	2146.2	1871.3	1626.6	1442.1	1314.1	1238.8	1212.4	1197.4	1201.1
30°	2372.1	2319.4	2180.1	1788.5	1498.6	1280.2	1163.5	1129.6	1110.8	1103.2	1103.2
32.5°	2451.2	2402.3	2202.7	1690.6	1348.0	1133.4	1058.0	1031.7	1016.6	997.8	1001.6
35°	2549.1	2503.9	2191.4	1566.4	1204.9	1035.5	975.2	937.6	903.7	877.3	873.5
37.5°	2680.9	2647.0	2134.9	1415.7	1073.1	963.9	903.7	854.7	805.8	764.4	756.8
40°	2899.3	2820.2	2052.1	1250.1	982.7	907.4	835.9	775.6	715.4	670.2	658.9
42.5°	3177.9	3012.2	1939.1	1080.6	907.4	847.2	775.6	696.6	640.1	598.7	598.7
45°	3501.7	3219.3	1803.6	952.6	828.4	786.9	700.3	632.6	598.7	572.3	568.6
47.5°	3885.8	3426.4	1630.4	851.0	764.4	734.2	647.6	606.2	583.6	561.0	557.3
50°	4401.6	3705.0	1502.3	764.4	700.3	674.0	632.6	598.7	576.1	561.0	557.3
52.5°	4992.8	4062.7	1412.0	696.6	647.6	636.3	628.8	602.4	579.9	568.6	564.8
55°	5632.9	4503.3	1325.4	640.1	606.2	621.3	636.3	610.0	594.9	579.9	572.3
57.5°	6235.3	4876.0	1186.1	591.1	576.1	602.4	632.6	613.7	594.9	583.6	579.9
60°	6645.7	5064.3	994.0	546.0	546.0	576.1	621.3	594.9	576.1	579.9	579.9
62.5°	6777.5	4992.8	786.9	504.5	515.8	546.0	587.4	572.3	564.8	583.6	583.6
65°	6581.7	4702.8	628.8	470.7	485.7	508.3	568.6	583.6	606.2	647.6	651.4
67°	6069.6	4235.9	530.9	444.3	459.4	497.0	591.1	643.9	643.9	689.0	689.0
67.5°	5919.0	4077.8	515.8	436.8	455.6	497.0	602.4	658.9	643.9	696.6	696.6
70°	4812.0	3208.0	436.8	414.2	440.5	523.4	651.4	662.7	628.8	677.8	674.0
72.5°	3569.5	2319.4	399.1	391.6	410.4	493.3	647.6	636.3	587.4	602.4	591.1
75°	2206.5	1344.2	369.0	361.5	372.8	436.8	598.7	579.9	523.4	512.1	500.8
77.5°	1065.6	681.5	316.3	327.6	338.9	380.3	527.1	508.3	459.4	433.0	429.2
80°	463.1	350.2	271.1	289.9	293.7	323.8	436.8	414.2	369.0	327.6	327.6
82.5°	229.7	195.8	214.6	241.0	233.4	259.8	342.6	305.0	271.1	225.9	218.4
85°	105.4	113.0	158.1	180.7	158.1	161.9	233.4	214.6	169.4	128.0	131.8
87.5°	37.7	52.7	90.4	109.2	79.1	75.3	124.3	90.4	52.7	15.1	18.8
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)