

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: P572820

Luminaire Tested: **ARCH-S-PA2-120-730-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572820
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-PA2-120-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14237 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

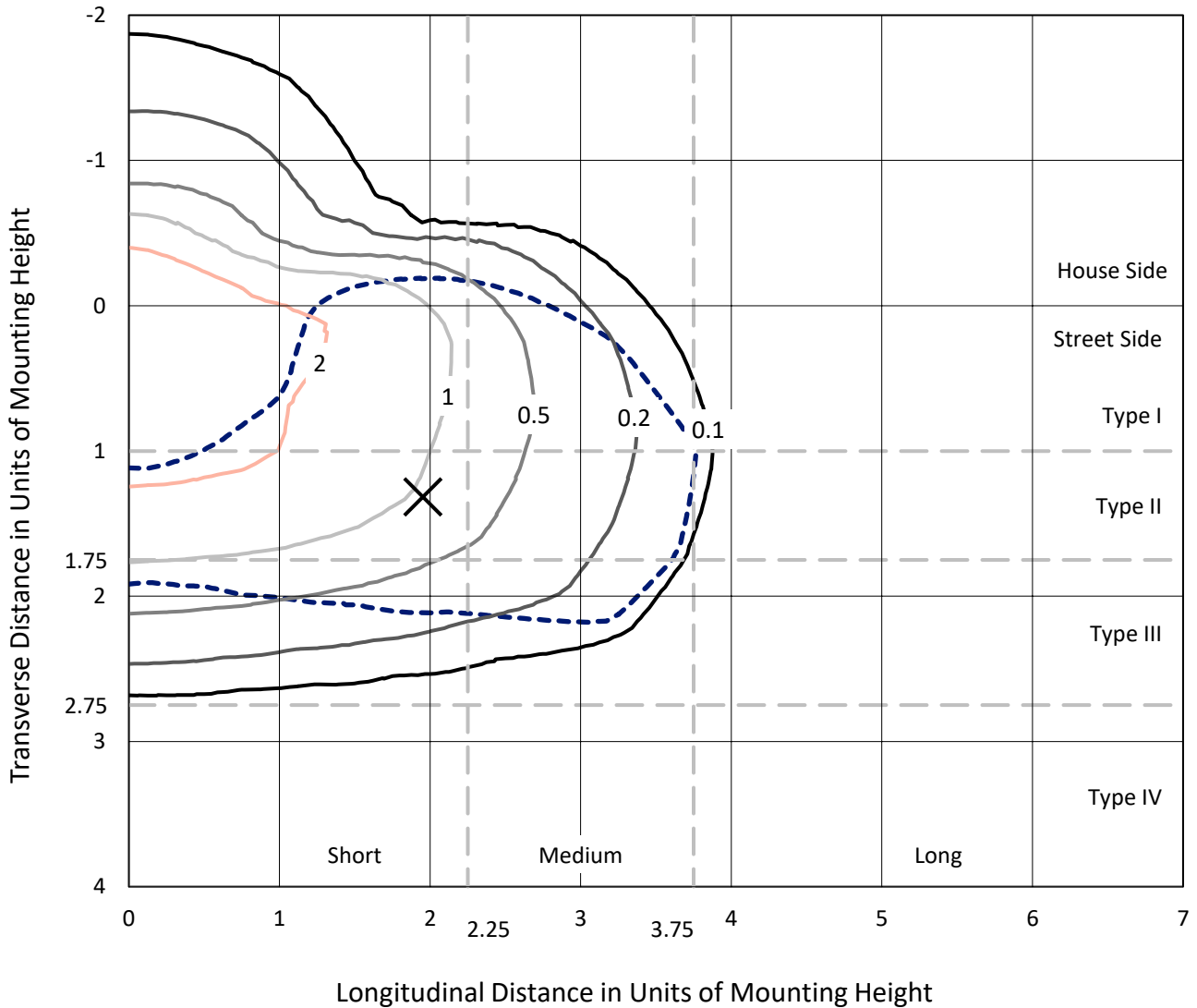
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

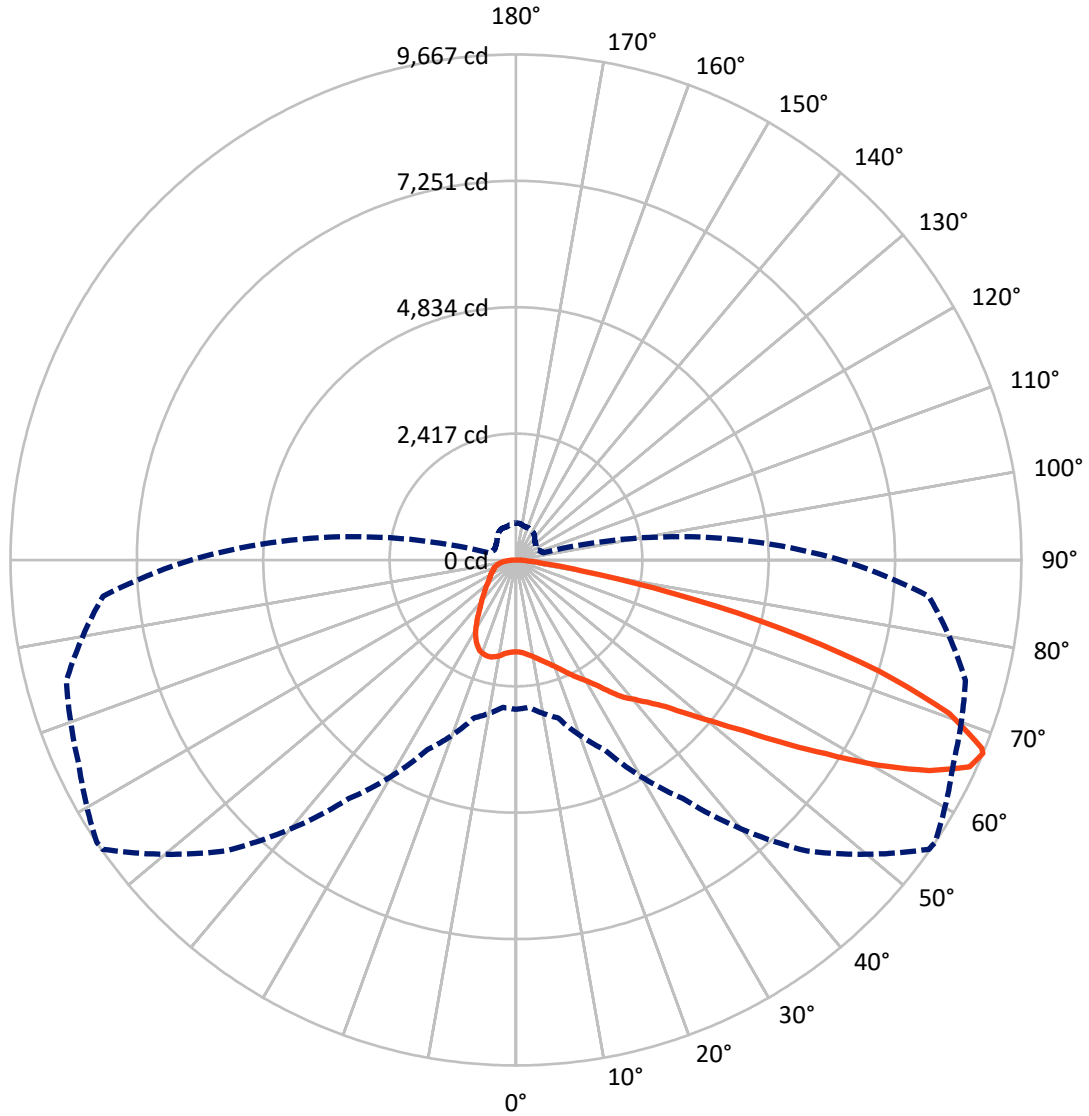
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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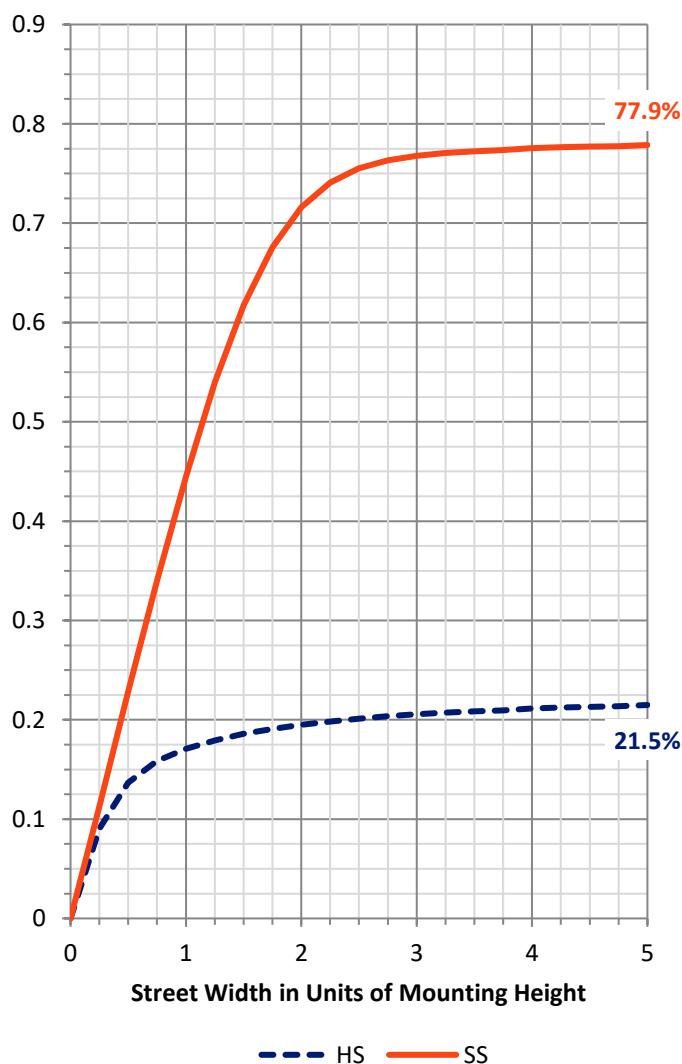
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3114.8	0.0	3114.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11122.2	0.0	11122.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	14237.0	0.0	14237.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	1.2
10°-20°	554.6	3.9
20°-30°	965.2	6.8
30°-40°	1415.2	9.9
40°-50°	2070.6	14.5
50°-60°	3236.0	22.7
60°-70°	3846.2	27.0
70°-80°	1751.7	12.3
80°-90°	224.6	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°	14237.0	100.0
0°-180°	14237.0	100.0

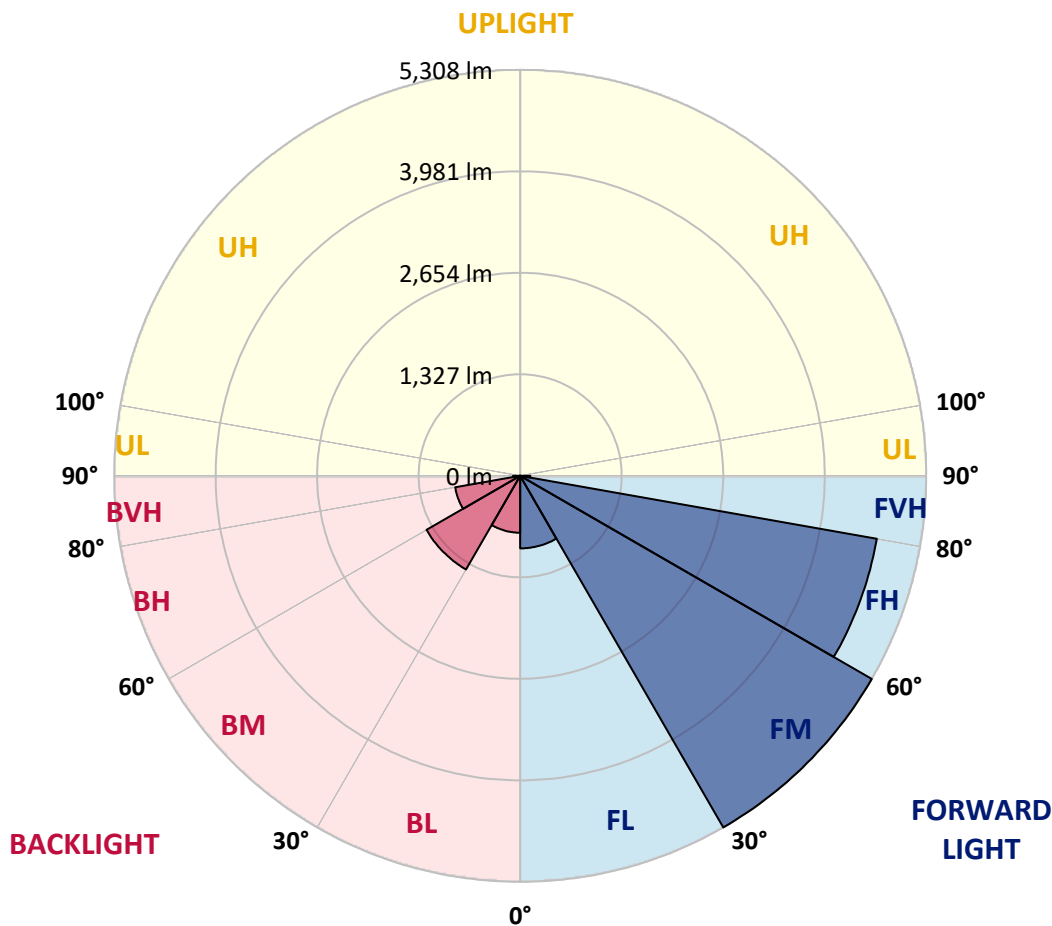


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.3	6.7			
FM (30°-60°)	5307.9	37.3			
FH (60°-80°)	4735.0	33.3			G2/5000
FVH (80°-90°)	131.0	0.9			G2/225
BL (0°-30°)	744.4	5.2	B2/1000		
BM (30°-60°)	1413.9	9.9	B2/2500		
BH (60°-80°)	862.9	6.1	B2/1000		G2/1000
BVH (80°-90°)	93.6	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°	1757.7	1757.7	1757.7	1757.7	1757.7	1757.7	1757.7	1757.7	1757.7	1757.7	1757.7
2.5°	1784.7	1777.0	1773.1	1777.0	1773.1	1765.4	1769.3	1765.4	1761.6	1757.7	1757.7
5°	1807.8	1800.1	1796.3	1800.1	1804.0	1796.3	1796.3	1796.3	1784.7	1780.8	1773.1
7.5°	1823.2	1811.7	1811.7	1819.4	1827.1	1830.9	1838.7	1834.8	1823.2	1815.5	1800.1
10°	1873.4	1857.9	1857.9	1857.9	1865.6	1873.4	1881.1	1884.9	1881.1	1877.2	1865.6
12.5°	1950.4	1935.0	1935.0	1935.0	1935.0	1931.2	1942.7	1946.6	1954.3	1954.3	1935.0
15°	2054.5	2035.2	2027.5	2012.1	2008.3	2000.6	2016.0	2016.0	2027.5	2031.4	2012.1
17.5°	2154.7	2131.6	2123.9	2108.5	2093.1	2073.8	2089.2	2093.1	2116.2	2120.0	2089.2
20°	2258.8	2251.1	2239.5	2216.4	2189.4	2170.2	2185.6	2181.7	2201.0	2208.7	2170.2
22.5°	2393.7	2374.5	2366.7	2335.9	2305.1	2285.8	2285.8	2293.5	2312.8	2312.8	2255.0
25°	2555.6	2528.6	2509.4	2474.7	2436.1	2413.0	2416.9	2424.6	2451.5	2432.3	2343.6
27.5°	2756.1	2729.1	2702.1	2632.7	2594.2	2547.9	2544.1	2551.8	2594.2	2544.1	2428.4
30°	2944.9	2933.4	2910.2	2856.3	2794.6	2717.5	2682.8	2686.7	2717.5	2648.1	2501.7
32.5°	3106.8	3091.4	3079.9	3041.3	2998.9	2906.4	2860.1	2864.0	2860.1	2775.3	2590.3
35°	3299.6	3276.4	3268.7	3234.0	3180.1	3118.4	3099.1	3091.4	3068.3	2952.6	2706.0
37.5°	3484.6	3461.5	3449.9	3430.6	3388.2	3334.3	3334.3	3330.4	3284.1	3122.3	2821.6
40°	3704.3	3677.3	3642.6	3631.1	3596.4	3557.8	3527.0	3507.7	3426.8	3280.3	3045.2
42.5°	3970.3	3954.9	3935.6	3885.5	3831.5	3823.8	3735.1	3727.4	3669.6	3584.8	3361.2
45°	4351.9	4321.0	4294.1	4278.6	4213.1	4143.7	4020.4	3989.5	3989.5	3970.3	3731.3
47.5°	4737.3	4683.4	4721.9	4710.4	4694.9	4617.8	4378.9	4382.7	4375.0	4425.1	4274.8
50°	4995.6	4964.8	5072.7	5122.8	5230.7	5230.7	4887.7	4845.3	4876.1	5022.6	4829.9
52.5°	5196.0	5176.8	5300.1	5496.7	5816.6	5847.5	5492.8	5404.2	5446.6	5654.7	5577.7
55°	5357.9	5338.7	5481.3	5824.3	6337.0	6525.9	6190.5	6152.0	6067.2	6290.8	6313.9
57.5°	5454.3	5411.9	5627.8	6086.5	6761.0	7196.6	7007.7	6996.2	6799.6	7007.7	7111.8
60°	5307.8	5280.8	5577.7	6194.4	7104.1	7828.8	7967.5	7967.5	7616.8	7728.5	7855.7
62.5°	4833.7	4799.0	5111.2	5943.8	7146.5	8345.3	8919.6	8873.4	8403.1	8399.2	8287.5
65°	3931.7	3889.3	4240.1	5118.9	6610.7	8406.9	9563.3	9536.4	8992.9	8838.7	8314.4
67°	2856.3	2829.3	3130.0	4001.1	5569.9	7871.2	9644.3	9667.4	9228.0	8900.3	7925.1
67.5°	2563.3	2559.5	2810.0	3673.5	5265.4	7674.6	9590.3	9613.4	9224.1	8850.2	7770.9
70°	1194.9	1248.9	1484.0	2104.6	3550.1	6044.1	8703.8	8792.4	8730.7	8272.0	6545.2
72.5°	555.1	578.2	682.3	1017.6	1908.0	3897.0	7054.0	7266.0	7535.8	7096.4	5184.5
75°	343.1	350.8	408.6	528.1	898.1	1873.4	5022.6	5253.9	5662.5	5338.7	3315.0
77.5°	269.8	273.7	312.2	377.8	524.2	805.6	2756.1	3045.2	3577.1	3156.9	1669.1
80°	200.4	208.2	239.0	293.0	370.0	412.4	1171.8	1279.7	1726.9	1322.1	693.8
82.5°	146.5	154.2	185.0	212.0	258.3	262.1	478.0	505.0	740.1	535.8	300.7
85°	123.3	123.3	142.6	158.0	173.5	146.5	235.1	231.3	285.2	242.8	119.5
87.5°	57.8	61.7	134.9	100.2	84.8	61.7	69.4	73.2	88.7	96.4	46.3
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°	1757.7	1757.7	1757.7	1757.7	1757.7	1757.7	1757.7	1757.7	1757.7	1757.7	1757.7
2.5°	1753.9	1753.9	1753.9	1757.7	1761.6	1761.6	1765.4	1765.4	1769.3	1773.1	1780.8
5°	1769.3	1769.3	1765.4	1769.3	1777.0	1780.8	1788.5	1796.3	1804.0	1811.7	1815.5
7.5°	1800.1	1796.3	1796.3	1796.3	1804.0	1811.7	1823.2	1830.9	1842.5	1846.4	1854.1
10°	1857.9	1850.2	1850.2	1854.1	1857.9	1846.4	1842.5	1838.7	1850.2	1857.9	1865.6
12.5°	1927.3	1919.6	1915.8	1904.2	1888.8	1865.6	1846.4	1830.9	1834.8	1842.5	1854.1
15°	2000.6	1985.1	1977.4	1950.4	1911.9	1861.8	1830.9	1811.7	1811.7	1811.7	1823.2
17.5°	2077.6	2062.2	2031.4	1981.3	1908.0	1838.7	1800.1	1765.4	1750.0	1746.1	1753.9
20°	2150.9	2127.8	2077.6	2000.6	1884.9	1792.4	1742.3	1684.5	1661.3	1645.9	1653.6
22.5°	2220.3	2189.4	2120.0	2000.6	1846.4	1723.0	1634.4	1557.3	1518.7	1511.0	1514.9
25°	2293.5	2255.0	2162.4	1977.4	1761.6	1618.9	1495.6	1414.6	1364.5	1356.8	1368.4
27.5°	2366.7	2308.9	2197.1	1915.8	1665.2	1476.3	1345.3	1268.2	1241.2	1225.8	1229.6
30°	2428.4	2374.5	2231.8	1830.9	1534.1	1310.6	1191.1	1156.4	1137.1	1129.4	1129.4
32.5°	2509.4	2459.3	2255.0	1730.7	1380.0	1160.2	1083.2	1056.2	1040.8	1021.5	1025.3
35°	2609.6	2563.3	2243.4	1603.5	1233.5	1060.0	998.3	959.8	925.1	898.1	894.3
37.5°	2744.5	2709.8	2185.6	1449.3	1098.6	986.8	925.1	875.0	824.9	782.5	774.8
40°	2968.1	2887.1	2100.8	1279.7	1006.1	929.0	855.7	794.1	732.4	686.1	674.6
42.5°	3253.3	3083.7	1985.1	1106.3	929.0	867.3	794.1	713.1	655.3	612.9	612.9
45°	3584.8	3295.7	1846.4	975.2	848.0	805.6	717.0	647.6	612.9	585.9	582.0
47.5°	3978.0	3507.7	1669.1	871.1	782.5	751.7	663.0	620.6	597.5	574.3	570.5
50°	4506.1	3793.0	1538.0	782.5	717.0	690.0	647.6	612.9	589.8	574.3	570.5
52.5°	5111.2	4159.1	1445.5	713.1	663.0	651.4	643.7	616.7	593.6	582.0	578.2
55°	5766.5	4610.1	1356.8	655.3	620.6	636.0	651.4	624.5	609.0	593.6	585.9
57.5°	6383.3	4991.7	1214.2	605.2	589.8	616.7	647.6	628.3	609.0	597.5	593.6
60°	6803.4	5184.5	1017.6	558.9	558.9	589.8	636.0	609.0	589.8	593.6	593.6
62.5°	6938.3	5111.2	805.6	516.5	528.1	558.9	601.3	585.9	578.2	597.5	597.5
65°	6737.9	4814.4	643.7	481.8	497.2	520.4	582.0	597.5	620.6	663.0	666.9
67°	6213.7	4336.5	543.5	454.8	470.3	508.8	605.2	659.1	659.1	705.4	705.4
67.5°	6059.5	4174.6	528.1	447.1	466.4	508.8	616.7	674.6	659.1	713.1	713.1
70°	4926.2	3284.1	447.1	424.0	451.0	535.8	666.9	678.4	643.7	693.8	690.0
72.5°	3654.2	2374.5	408.6	400.9	420.2	505.0	663.0	651.4	601.3	616.7	605.2
75°	2258.8	1376.1	377.8	370.0	381.6	447.1	612.9	593.6	535.8	524.2	512.7
77.5°	1090.9	697.7	323.8	335.4	346.9	389.3	539.6	520.4	470.3	443.3	439.4
80°	474.1	358.5	277.5	296.8	300.7	331.5	447.1	424.0	377.8	335.4	335.4
82.5°	235.1	200.4	219.7	246.7	239.0	266.0	350.8	312.2	277.5	231.3	223.6
85°	107.9	115.6	161.9	185.0	161.9	165.7	239.0	219.7	173.5	131.1	134.9
87.5°	38.5	54.0	92.5	111.8	80.9	77.1	127.2	92.5	54.0	15.4	19.3
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)