

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: P572919

Luminaire Tested: **ARCH-S-PA2-130-740-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572919
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-PA2-130-740-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16211 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

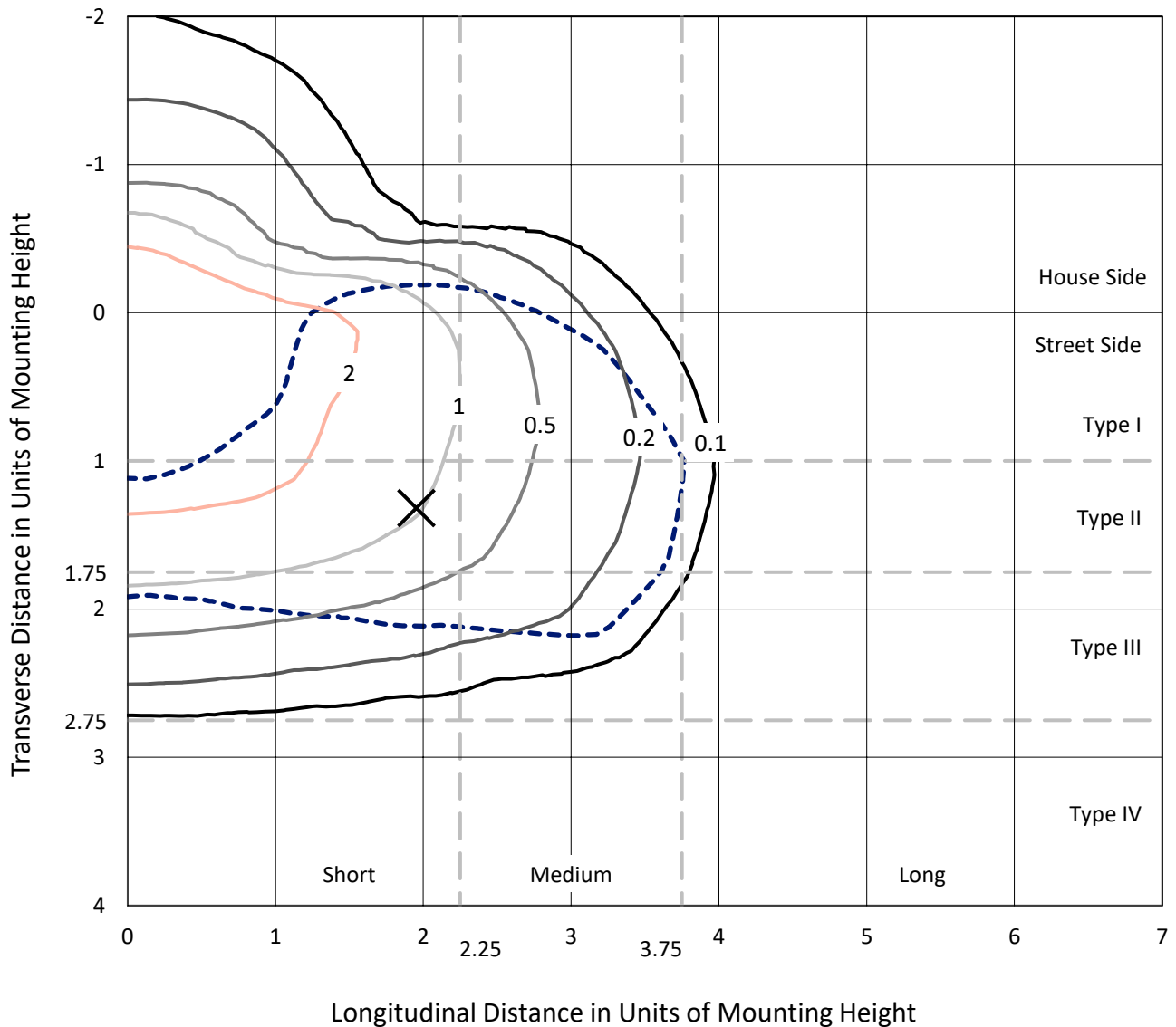
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

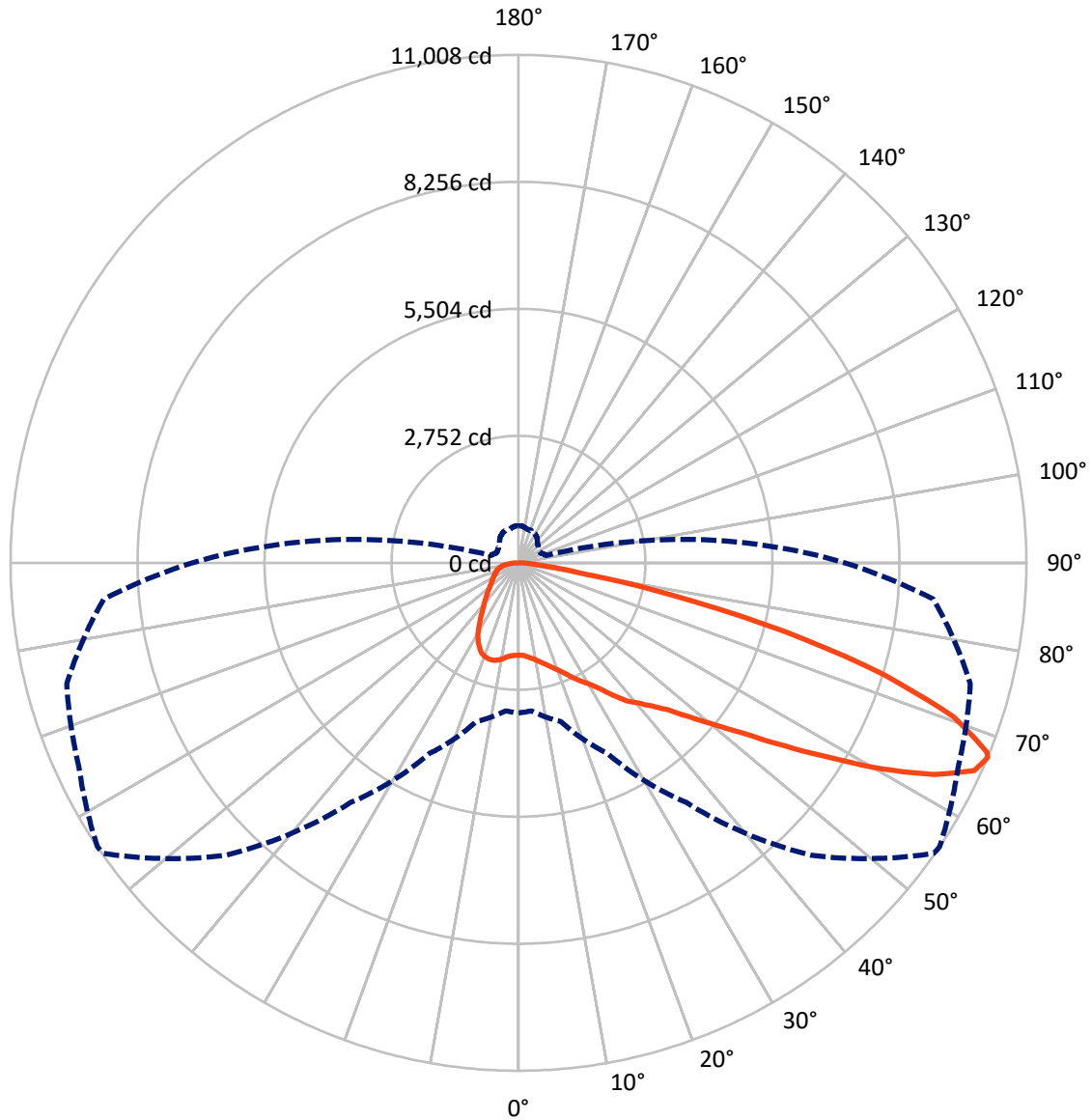
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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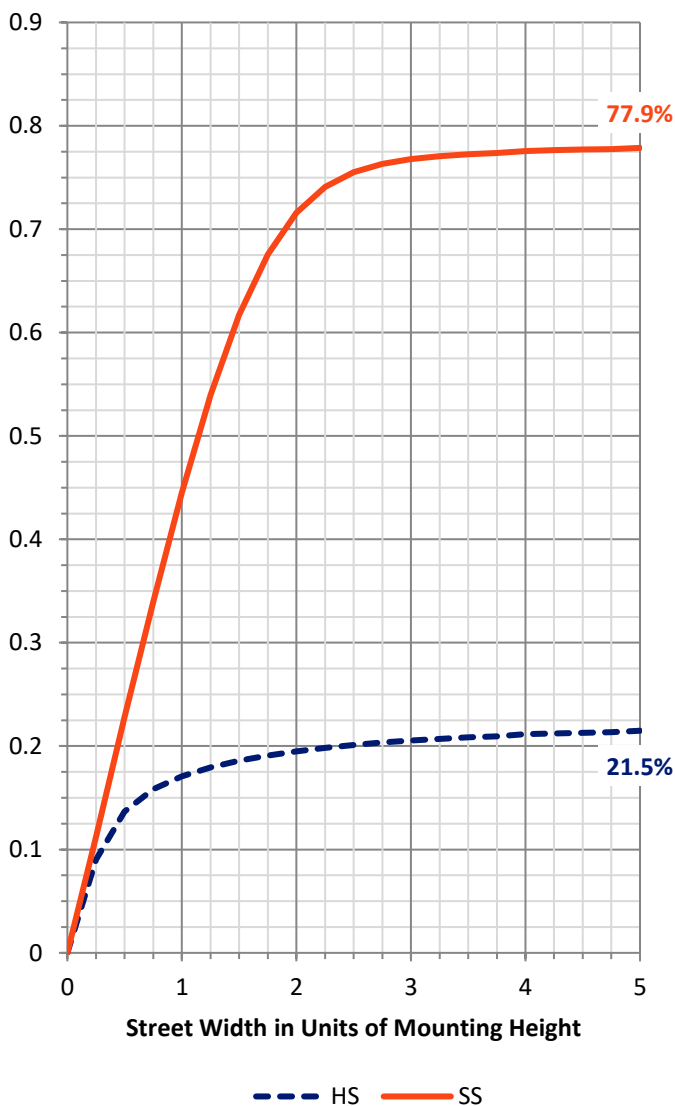
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3546.7	0.0	3546.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12664.4	0.0	12664.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	16211.0	0.0	16211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	1.2
10°-20°	631.5	3.9
20°-30°	1099.0	6.8
30°-40°	1611.4	9.9
40°-50°	2357.7	14.5
50°-60°	3684.7	22.7
60°-70°	4379.5	27.0
70°-80°	1994.6	12.3
80°-90°	255.8	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°	16211.0	100.0
0°-180°	16211.0	100.0

Coefficient of Utilization



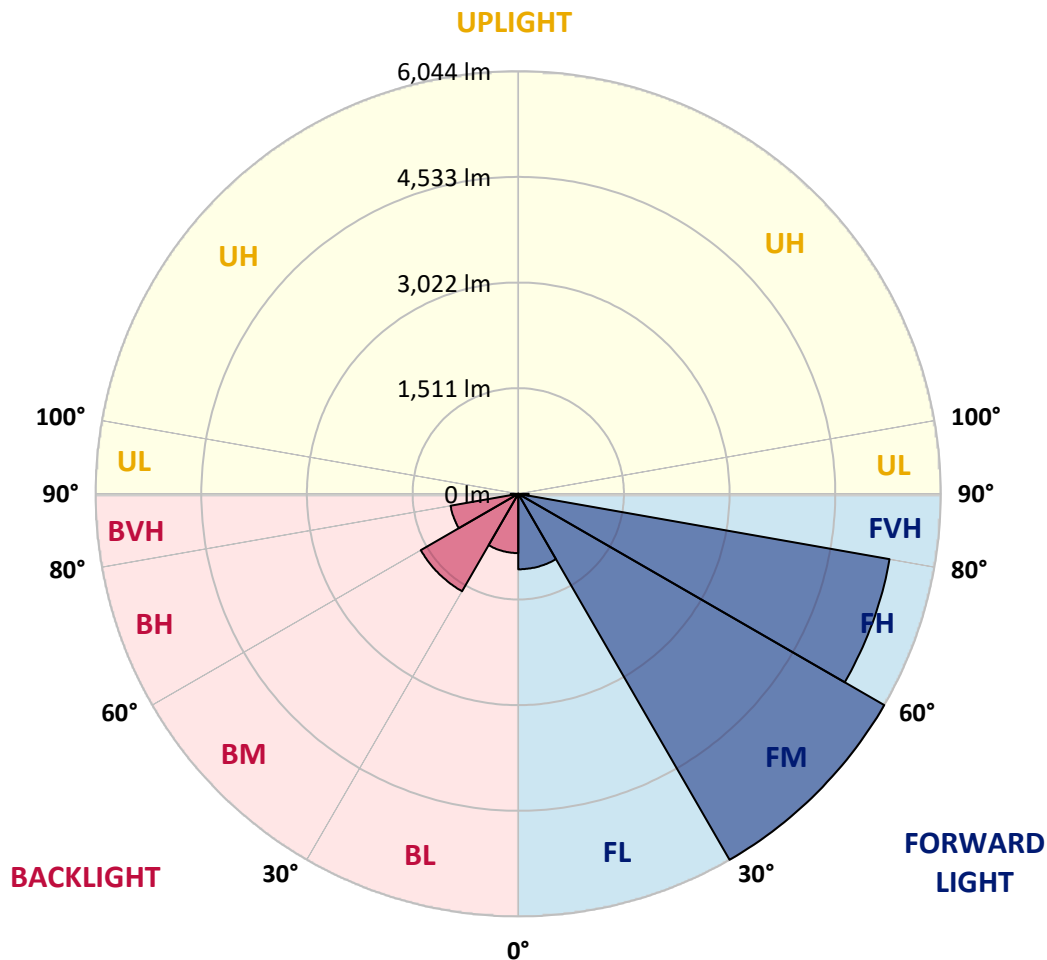
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.8	6.7			
FM (30°-60°)	6043.9	37.3			
FH (60°-80°)	5391.5	33.3			G3/7500
FVH (80°-90°)	149.2	0.9			G2/225
BL (0°-30°)	847.6	5.2	B2/1000		
BM (30°-60°)	1609.9	9.9	B2/2500		
BH (60°-80°)	982.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	106.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4
2.5°	2032.1	2023.4	2019.0	2023.4	2019.0	2010.2	2014.6	2010.2	2005.8	2001.4	2001.4
5°	2058.5	2049.7	2045.3	2049.7	2054.1	2045.3	2045.3	2045.3	2032.1	2027.8	2019.0
7.5°	2076.0	2062.9	2062.9	2071.6	2080.4	2084.8	2093.6	2089.2	2076.0	2067.3	2049.7
10°	2133.1	2115.5	2115.5	2115.5	2124.3	2133.1	2141.9	2146.3	2141.9	2137.5	2124.3
12.5°	2220.9	2203.3	2203.3	2203.3	2203.3	2198.9	2212.1	2216.5	2225.3	2225.3	2203.3
15°	2339.4	2317.4	2308.7	2291.1	2286.7	2277.9	2295.5	2295.5	2308.7	2313.0	2291.1
17.5°	2453.5	2427.2	2418.4	2400.8	2383.3	2361.3	2378.9	2383.3	2409.6	2414.0	2378.9
20°	2572.0	2563.2	2550.1	2523.7	2493.0	2471.1	2488.6	2484.2	2506.2	2514.9	2471.1
22.5°	2725.6	2703.7	2694.9	2659.8	2624.7	2602.7	2602.7	2611.5	2633.5	2633.5	2567.6
25°	2910.0	2879.2	2857.3	2817.8	2773.9	2747.6	2752.0	2760.7	2791.5	2769.5	2668.6
27.5°	3138.2	3107.5	3076.7	2997.7	2953.9	2901.2	2896.8	2905.6	2953.9	2896.8	2765.1
30°	3353.3	3340.1	3313.8	3252.3	3182.1	3094.3	3054.8	3059.2	3094.3	3015.3	2848.5
32.5°	3537.6	3520.0	3506.9	3463.0	3414.7	3309.4	3256.7	3261.1	3256.7	3160.1	2949.5
35°	3757.1	3730.7	3721.9	3682.4	3621.0	3550.8	3528.8	3520.0	3493.7	3362.0	3081.1
37.5°	3967.7	3941.4	3928.2	3906.3	3858.0	3796.6	3796.6	3792.2	3739.5	3555.2	3212.8
40°	4217.9	4187.2	4147.7	4134.5	4095.0	4051.1	4016.0	3994.1	3901.9	3735.1	3467.4
42.5°	4520.8	4503.2	4481.3	4424.2	4362.8	4354.0	4253.0	4244.2	4178.4	4081.9	3827.3
45°	4955.3	4920.2	4889.4	4871.9	4797.3	4718.3	4577.8	4542.7	4542.7	4520.8	4248.6
47.5°	5394.2	5332.7	5376.6	5363.5	5345.9	5258.1	4986.0	4990.4	4981.6	5038.7	4867.5
50°	5688.3	5653.1	5776.0	5833.1	5956.0	5956.0	5565.4	5517.1	5552.2	5719.0	5499.5
52.5°	5916.5	5894.5	6035.0	6258.8	6623.1	6658.2	6254.4	6153.5	6201.8	6438.8	6351.0
55°	6100.8	6078.9	6241.3	6631.9	7215.7	7430.7	7048.9	7005.0	6908.4	7163.0	7189.3
57.5°	6210.6	6162.3	6408.1	6930.4	7698.5	8194.4	7979.4	7966.2	7742.3	7979.4	8097.9
60°	6043.8	6013.0	6351.0	7053.3	8089.1	8914.2	9072.2	9072.2	8672.8	8800.1	8945.0
62.5°	5503.9	5464.4	5819.9	6768.0	8137.4	9502.4	10156.3	10103.7	9568.2	9563.8	9436.5
65°	4476.9	4428.6	4828.0	5828.7	7527.3	9572.6	10889.3	10858.6	10239.7	10064.2	9467.3
67°	3252.3	3221.6	3563.9	4555.9	6342.2	8962.5	10981.5	11007.8	10507.5	10134.4	9024.0
67.5°	2918.7	2914.4	3199.6	4182.8	5995.5	8738.7	10920.0	10946.4	10503.1	10077.3	8848.4
70°	1360.6	1422.1	1689.8	2396.4	4042.3	6882.1	9910.6	10011.5	9941.3	9419.0	7452.7
72.5°	632.0	658.4	776.9	1158.7	2172.6	4437.4	8032.0	8273.4	8580.7	8080.3	5903.3
75°	390.6	399.4	465.2	601.3	1022.7	2133.1	5719.0	5982.3	6447.6	6078.9	3774.6
77.5°	307.2	311.6	355.5	430.1	596.9	917.3	3138.2	3467.4	4073.1	3594.7	1900.5
80°	228.2	237.0	272.1	333.6	421.4	469.6	1334.3	1457.2	1966.3	1505.5	790.0
82.5°	166.8	175.6	210.7	241.4	294.1	298.5	544.2	575.0	842.7	610.1	342.3
85°	140.5	140.5	162.4	180.0	197.5	166.8	267.7	263.3	324.8	276.5	136.1
87.5°	65.8	70.2	153.6	114.1	96.6	70.2	79.0	83.4	100.9	109.7	52.7
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°	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4
2.5°	1997.0	1997.0	1997.0	2001.4	2005.8	2005.8	2010.2	2010.2	2014.6	2019.0	2027.8
5°	2014.6	2014.6	2010.2	2014.6	2023.4	2027.8	2036.5	2045.3	2054.1	2062.9	2067.3
7.5°	2049.7	2045.3	2045.3	2045.3	2054.1	2062.9	2076.0	2084.8	2098.0	2102.4	2111.2
10°	2115.5	2106.8	2106.8	2111.2	2115.5	2102.4	2098.0	2093.6	2106.8	2115.5	2124.3
12.5°	2194.5	2185.8	2181.4	2168.2	2150.7	2124.3	2102.4	2084.8	2089.2	2098.0	2111.2
15°	2277.9	2260.4	2251.6	2220.9	2177.0	2119.9	2084.8	2062.9	2062.9	2062.9	2076.0
17.5°	2365.7	2348.2	2313.0	2256.0	2172.6	2093.6	2049.7	2010.2	1992.6	1988.3	1997.0
20°	2449.1	2422.8	2365.7	2277.9	2146.3	2040.9	1983.9	1918.0	1891.7	1874.1	1882.9
22.5°	2528.1	2493.0	2414.0	2277.9	2102.4	1961.9	1861.0	1773.2	1729.3	1720.5	1724.9
25°	2611.5	2567.6	2462.3	2251.6	2005.8	1843.4	1703.0	1610.8	1553.7	1545.0	1558.1
27.5°	2694.9	2629.1	2501.8	2181.4	1896.1	1681.0	1531.8	1444.0	1413.3	1395.7	1400.1
30°	2765.1	2703.7	2541.3	2084.8	1746.9	1492.3	1356.2	1316.7	1294.8	1286.0	1286.0
32.5°	2857.3	2800.2	2567.6	1970.7	1571.3	1321.1	1233.3	1202.6	1185.1	1163.1	1167.5
35°	2971.4	2918.7	2554.4	1825.9	1404.5	1207.0	1136.8	1092.9	1053.4	1022.7	1018.3
37.5°	3125.0	3085.5	2488.6	1650.3	1250.9	1123.6	1053.4	996.3	939.3	891.0	882.2
40°	3379.6	3287.4	2392.1	1457.2	1145.6	1057.8	974.4	904.2	833.9	781.3	768.1
42.5°	3704.4	3511.3	2260.4	1259.7	1057.8	987.5	904.2	812.0	746.1	697.9	697.9
45°	4081.9	3752.7	2102.4	1110.4	965.6	917.3	816.4	737.4	697.9	667.1	662.8
47.5°	4529.5	3994.1	1900.5	991.9	891.0	855.9	754.9	706.6	680.3	654.0	649.6
50°	5130.8	4318.9	1751.2	891.0	816.4	785.6	737.4	697.9	671.5	654.0	649.6
52.5°	5819.9	4735.8	1645.9	812.0	754.9	741.8	733.0	702.3	675.9	662.8	658.4
55°	6566.1	5249.3	1545.0	746.1	706.6	724.2	741.8	711.0	693.5	675.9	667.1
57.5°	7268.3	5683.9	1382.6	689.1	671.5	702.3	737.4	715.4	693.5	680.3	675.9
60°	7746.7	5903.3	1158.7	636.4	636.4	671.5	724.2	693.5	671.5	675.9	675.9
62.5°	7900.4	5819.9	917.3	588.1	601.3	636.4	684.7	667.1	658.4	680.3	680.3
65°	7672.1	5482.0	733.0	548.6	566.2	592.5	662.8	680.3	706.6	754.9	759.3
67°	7075.2	4937.7	618.9	517.9	535.5	579.4	689.1	750.5	750.5	803.2	803.2
67.5°	6899.6	4753.4	601.3	509.1	531.1	579.4	702.3	768.1	750.5	812.0	812.0
70°	5609.3	3739.5	509.1	482.8	513.5	610.1	759.3	772.5	733.0	790.0	785.6
72.5°	4160.9	2703.7	465.2	456.5	478.4	575.0	754.9	741.8	684.7	702.3	689.1
75°	2572.0	1566.9	430.1	421.4	434.5	509.1	697.9	675.9	610.1	596.9	583.7
77.5°	1242.1	794.4	368.7	381.9	395.0	443.3	614.5	592.5	535.5	504.7	500.4
80°	539.9	408.2	316.0	338.0	342.3	377.5	509.1	482.8	430.1	381.9	381.9
82.5°	267.7	228.2	250.2	280.9	272.1	302.8	399.4	355.5	316.0	263.3	254.6
85°	122.9	131.7	184.3	210.7	184.3	188.7	272.1	250.2	197.5	149.2	153.6
87.5°	43.9	61.4	105.3	127.3	92.2	87.8	144.8	105.3	61.4	17.6	21.9
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)