

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: P509094

Luminaire Tested: **VERD-CA2-100-760-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-760-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1370mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13017 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

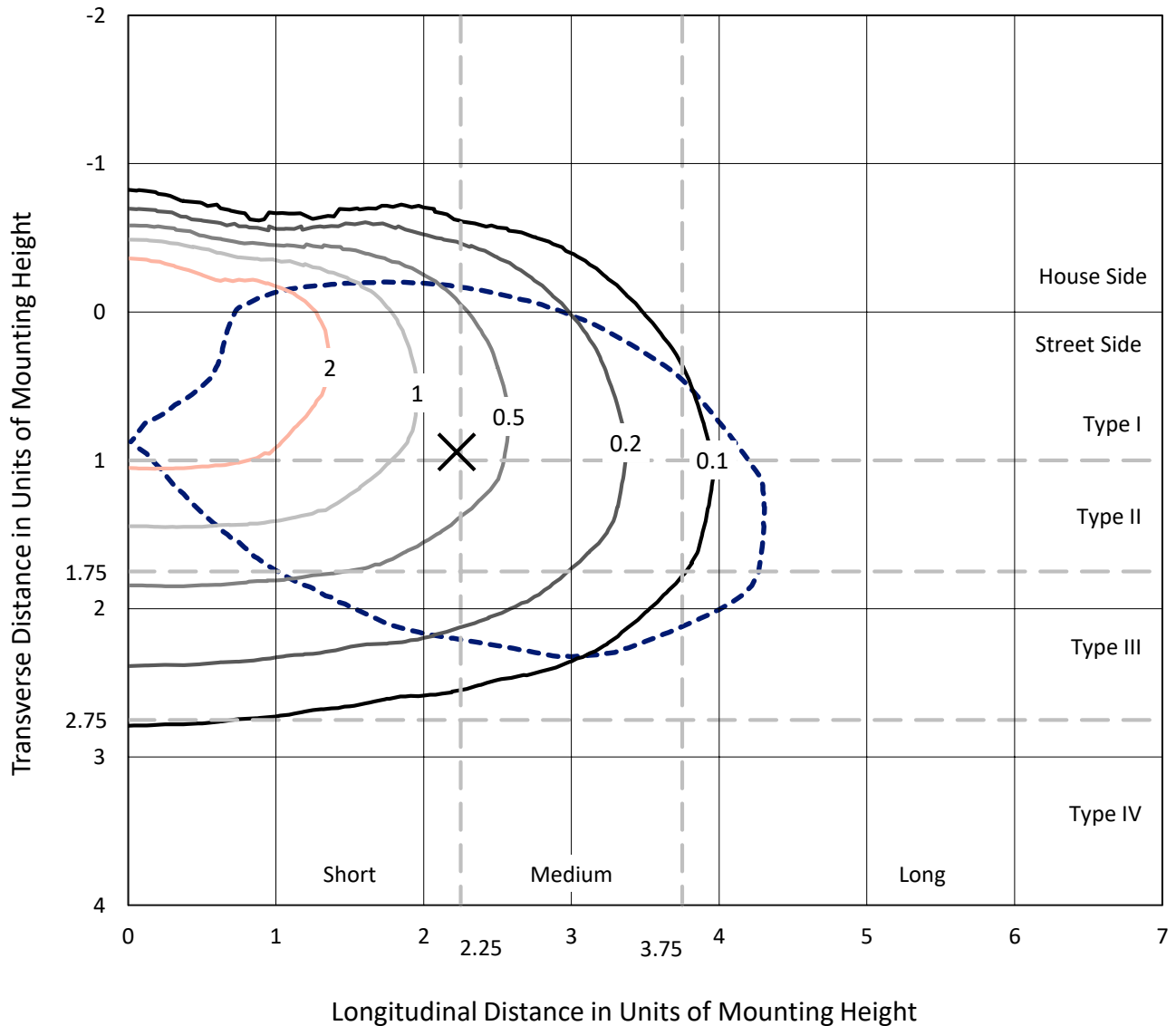
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

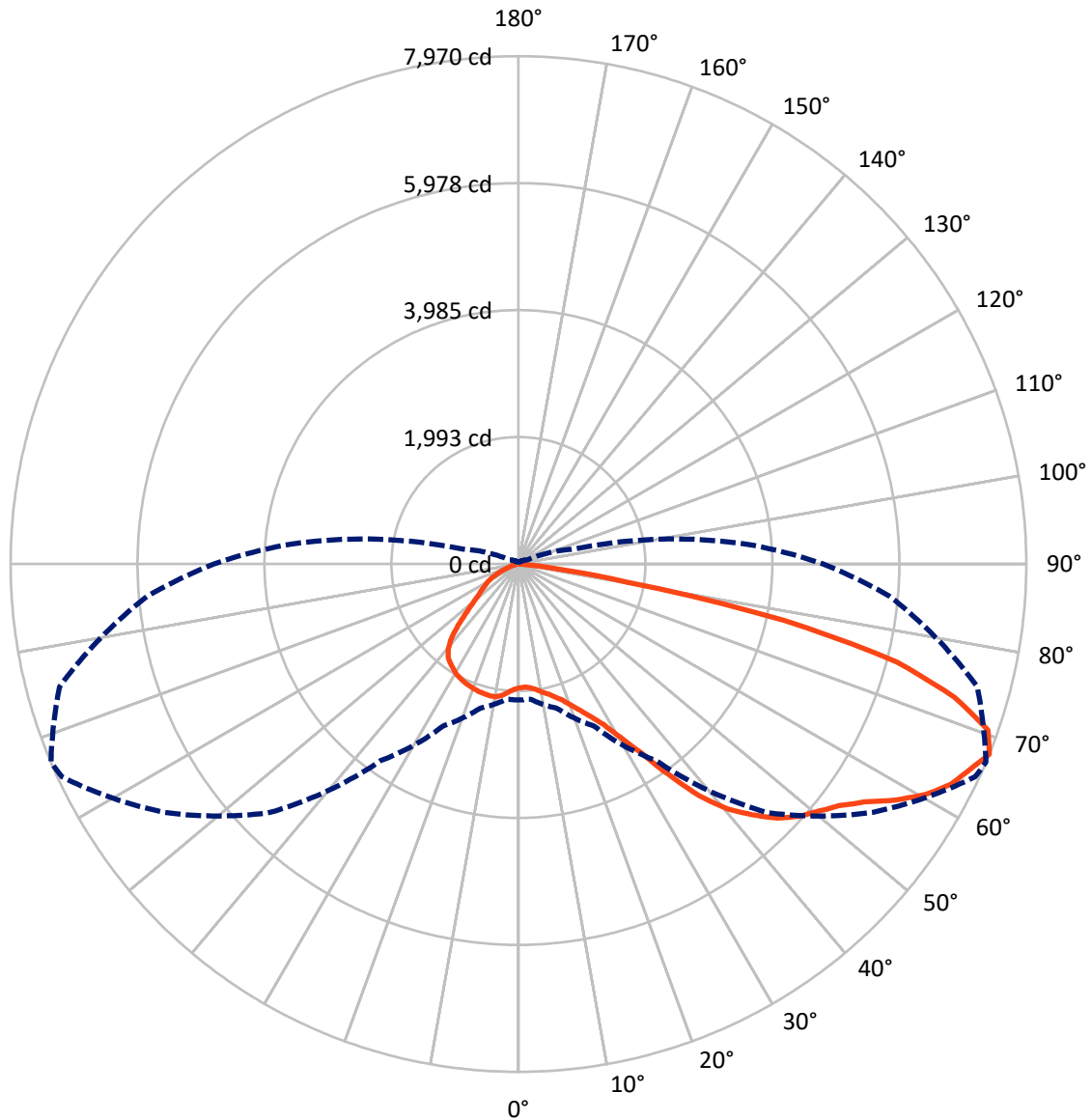
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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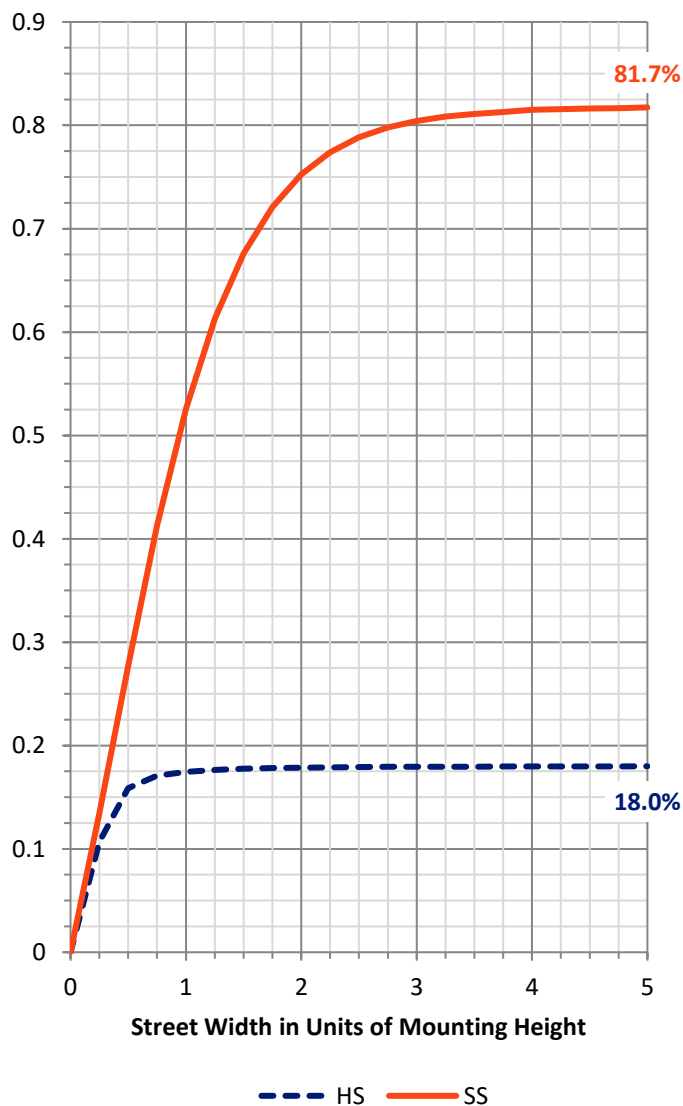
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2371.8	0.0	2371.8
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	10645.2	0.0	10645.2
	% Fixture	81.8	0.0	81.8
Total	Lumens	13017.0	0.0	13017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	1.5
10°-20°	609.9	4.7
20°-30°	1040.6	8.0
30°-40°	1619.8	12.4
40°-50°	2286.6	17.6
50°-60°	2753.9	21.2
60°-70°	2846.0	21.9
70°-80°	1567.8	12.0
80°-90°	97.7	0.8
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°	13017.0	100.0
0°-180°	13017.0	100.0

Coefficient of Utilization



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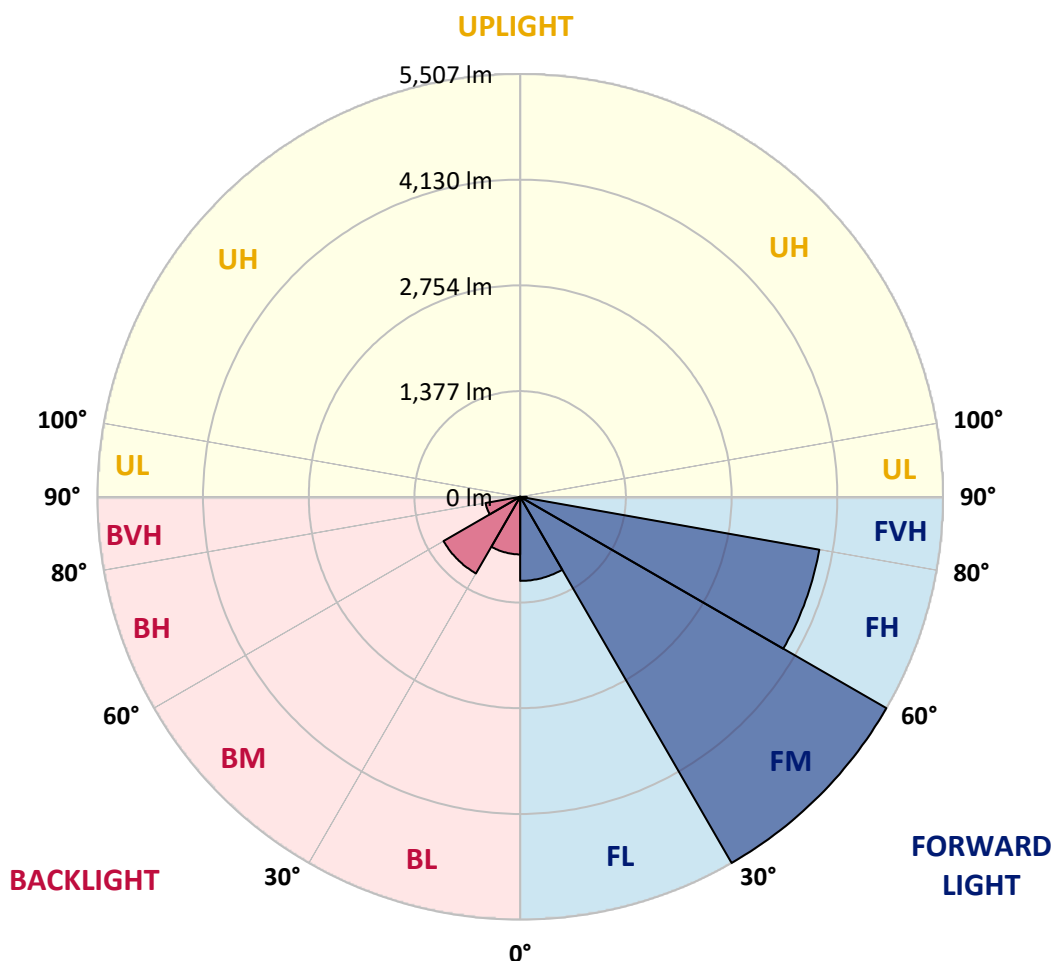
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1095.3	8.4			
FM	(30°-60°)	5507.3	42.3			
FH	(60°-80°)	3956.7	30.4			G2/5000
FVH	(80°-90°)	86.0	0.7			G1/100
BL	(0°-30°)	749.9	5.8	B2/1000		
BM	(30°-60°)	1153.0	8.9	B2/2500		
BH	(60°-80°)	457.2	3.5	B1/500		G1/500
BVH	(80°-90°)	11.8	0.1			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°	65°	67°	75°	85°
0°	1943.6	1943.6	1943.6	1943.6	1943.6	1943.6	1943.6	1943.6	1943.6	1943.6	1943.6
2.5°	1925.5	1945.1	1945.1	1939.1	1942.1	1928.5	1919.5	1930.0	1933.0	1942.1	1954.1
5°	1963.2	1985.8	1984.3	1973.7	1964.7	1952.6	1940.6	1949.6	1951.1	1954.1	1969.2
7.5°	2043.0	2064.1	2055.1	2044.5	2040.0	2012.9	1987.3	1985.8	1988.8	1997.8	2014.4
10°	2147.0	2163.6	2160.5	2144.0	2131.9	2091.2	2055.1	2041.5	2043.0	2046.0	2074.7
12.5°	2264.5	2287.1	2270.5	2247.9	2226.8	2168.1	2118.4	2098.8	2095.8	2103.3	2127.4
15°	2380.5	2404.6	2392.6	2379.0	2330.8	2266.0	2202.7	2171.1	2168.1	2168.1	2183.1
17.5°	2532.7	2541.7	2534.2	2514.6	2460.4	2379.0	2303.7	2257.0	2249.4	2254.0	2257.0
20°	2701.4	2718.0	2709.0	2687.9	2609.5	2522.1	2427.2	2371.5	2367.0	2371.5	2342.8
22.5°	2906.3	2912.4	2907.8	2873.2	2802.4	2686.4	2561.3	2498.0	2498.0	2502.6	2443.8
25°	3081.1	3117.3	3106.7	3064.5	2981.7	2880.7	2730.1	2651.7	2656.2	2659.2	2577.9
27.5°	3284.5	3314.6	3307.1	3275.5	3221.2	3093.2	2912.4	2861.1	2856.6	2852.1	2725.5
30°	3478.9	3501.5	3516.5	3509.0	3465.3	3344.8	3183.6	3145.9	3158.0	3148.9	2930.4
32.5°	3637.1	3676.2	3718.4	3727.5	3715.4	3608.4	3490.9	3510.5	3525.6	3632.5	3501.5
35°	3772.7	3814.9	3884.2	3956.5	3970.0	3927.9	3869.1	4012.2	4055.9	4274.4	4135.8
37.5°	3914.3	3950.5	4019.8	4134.3	4209.6	4232.2	4289.4	4515.4	4620.9	4809.2	4551.6
40°	3979.1	4015.2	4135.8	4280.4	4437.1	4563.7	4678.2	4940.3	5057.8	5115.1	4780.6
42.5°	3914.3	3948.9	4143.3	4416.0	4628.4	4908.7	5038.3	5300.4	5378.8	5372.7	5062.4
45°	3851.0	3884.2	4087.6	4450.7	4801.7	5226.6	5336.6	5630.4	5687.6	5615.3	5225.1
47.5°	3769.7	3814.9	4025.8	4429.6	4956.9	5514.4	5615.3	5865.4	5916.6	5809.7	5411.9
50°	3670.2	3709.4	3955.0	4396.4	5059.4	5729.8	5836.8	6085.4	6098.9	5999.5	5580.7
52.5°	3555.7	3576.8	3843.5	4330.1	5148.2	5888.0	6010.1	6270.7	6302.3	6275.2	5781.0
55°	3385.5	3423.1	3709.4	4226.2	5154.3	5970.9	6144.1	6532.9	6590.1	6526.8	5903.1
57.5°	3206.2	3246.8	3543.7	4081.5	5065.4	6023.6	6388.2	6873.4	6986.4	6783.0	6002.5
60°	3008.8	3045.0	3337.2	3867.6	4907.2	6098.9	6639.8	7272.6	7343.4	7001.4	6068.8
62.5°	2779.8	2808.4	3087.1	3608.4	4664.6	6079.4	6856.8	7593.5	7616.1	7197.3	6062.8
65°	2501.0	2499.5	2758.7	3246.8	4266.8	5922.7	6896.0	7754.8	7781.9	7323.9	6008.5
67.5°	2133.4	2128.9	2345.9	2805.4	3765.1	5514.4	6792.0	7905.4	7970.2	7456.4	5850.3
70°	1672.4	1678.4	1842.6	2252.5	3055.5	4892.1	6517.8	7804.5	7818.0	7201.8	5440.5
72.5°	1182.7	1179.7	1291.2	1568.4	2258.5	3819.4	5728.3	7115.9	7158.1	6572.0	4739.9
75°	542.4	565.0	843.7	958.2	1363.5	2600.5	4712.8	6046.2	6127.6	5657.5	3695.8
77.5°	100.9	104.0	180.8	364.6	533.4	938.6	2815.9	4095.1	4265.3	3855.5	2082.2
80°	79.9	81.4	107.0	174.8	223.0	421.9	926.6	1687.5	1725.1	1503.6	750.3
82.5°	58.8	60.3	79.9	113.0	104.0	182.3	385.7	491.2	521.3	485.1	298.3
85°	34.7	36.2	46.7	55.7	54.2	72.3	64.8	58.8	52.7	43.7	37.7
87.5°	9.0	12.1	19.6	19.6	15.1	13.6	12.1	10.5	12.1	10.5	10.5
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°	1943.6	1943.6	1943.6	1943.6	1943.6	1943.6	1943.6	1943.6	1943.6	1943.6	1943.6
2.5°	1957.1	1955.6	1960.2	1972.2	1982.8	1984.3	1999.3	2018.9	2009.9	2035.5	2026.5
5°	1978.2	1982.8	1999.3	2018.9	2037.0	2052.1	2074.7	2107.8	2097.3	2121.4	2112.3
7.5°	2026.5	2034.0	2059.6	2079.2	2100.3	2095.8	2115.3	2134.9	2110.8	2136.4	2124.4
10°	2083.7	2092.7	2107.8	2115.3	2109.3	2106.3	2101.8	2098.8	2067.1	2085.2	2077.7
12.5°	2134.9	2136.4	2131.9	2112.3	2098.8	2062.6	2046.0	2038.5	1990.3	2003.9	1994.8
15°	2184.7	2163.6	2141.0	2095.8	2058.1	2002.3	1966.2	1934.5	1889.3	1907.4	1889.3
17.5°	2238.9	2207.3	2148.5	2082.2	2005.4	1924.0	1865.2	1814.0	1746.2	1743.2	1737.2
20°	2308.2	2261.5	2166.6	2058.1	1948.1	1826.1	1732.7	1646.8	1544.3	1530.8	1503.6
22.5°	2395.6	2326.3	2193.7	2026.5	1877.3	1723.6	1565.4	1423.8	1294.2	1253.5	1238.5
25°	2496.5	2410.6	2208.8	1997.8	1809.5	1574.5	1359.0	1175.2	1023.0	979.3	967.3
27.5°	2623.1	2517.6	2231.4	1955.6	1701.0	1392.1	1111.9	908.5	772.9	702.1	691.6
30°	2797.9	2636.6	2263.0	1913.5	1569.9	1178.2	861.8	625.3	497.2	455.0	447.5
32.5°	3274.0	2919.9	2297.7	1838.1	1396.7	940.2	572.5	399.3	313.4	278.7	275.7
35°	3878.1	3438.2	2424.2	1752.2	1187.2	652.4	355.6	238.1	191.3	177.8	177.8
37.5°	4268.4	3840.5	2635.1	1631.7	911.5	399.3	213.9	155.2	146.1	144.6	144.6
40°	4473.3	4018.3	2787.3	1466.0	610.2	232.0	150.7	134.1	131.1	128.1	128.1
42.5°	4733.9	4170.4	2918.4	1241.5	354.1	162.7	132.6	122.0	117.5	114.5	114.5
45°	4878.6	4336.2	2835.5	974.8	201.9	146.1	122.0	110.0	105.5	105.5	105.5
47.5°	5020.2	4494.4	2730.1	700.6	171.8	134.1	114.5	102.5	97.9	100.9	100.9
50°	5181.4	4601.3	2562.8	524.3	162.7	125.1	104.0	93.4	90.4	94.9	94.9
52.5°	5332.1	4611.9	2294.6	418.9	150.7	116.0	96.4	85.9	82.9	85.9	85.9
55°	5375.7	4578.7	2217.8	333.0	143.1	107.0	90.4	79.9	72.3	72.3	70.8
57.5°	5365.2	4513.9	2031.0	281.7	134.1	97.9	82.9	70.8	61.8	58.8	58.8
60°	5329.0	4423.5	1833.6	245.6	125.1	90.4	73.8	60.3	51.2	48.2	48.2
62.5°	5283.8	4253.3	1554.9	213.9	116.0	87.4	61.8	49.7	43.7	40.7	40.7
65°	5094.0	3988.1	1244.5	182.3	107.0	76.8	54.2	43.7	37.7	34.7	34.7
67.5°	4779.1	3584.3	899.5	155.2	99.4	64.8	48.2	37.7	31.6	30.1	28.6
70°	4309.0	3026.9	557.5	134.1	85.9	58.8	42.2	33.1	28.6	24.1	24.1
72.5°	3591.9	2370.0	292.3	105.5	67.8	49.7	37.7	30.1	24.1	21.1	19.6
75°	2525.2	1461.5	210.9	81.4	46.7	40.7	31.6	25.6	21.1	18.1	16.6
77.5°	1218.9	503.2	147.7	60.3	33.1	30.1	24.1	21.1	16.6	15.1	15.1
80°	446.0	286.3	105.5	43.7	27.1	24.1	18.1	16.6	13.6	12.1	12.1
82.5°	200.4	135.6	60.3	28.6	19.6	18.1	13.6	10.5	10.5	10.5	10.5
85°	33.1	28.6	19.6	13.6	10.5	9.0	9.0	7.5	7.5	7.5	7.5
87.5°	9.0	9.0	7.5	7.5	6.0	4.5	3.0	3.0	3.0	4.5	4.5
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)