

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: P509454

Luminaire Tested: **VERD-G-CA2-100-730-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-730-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 930mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13726 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

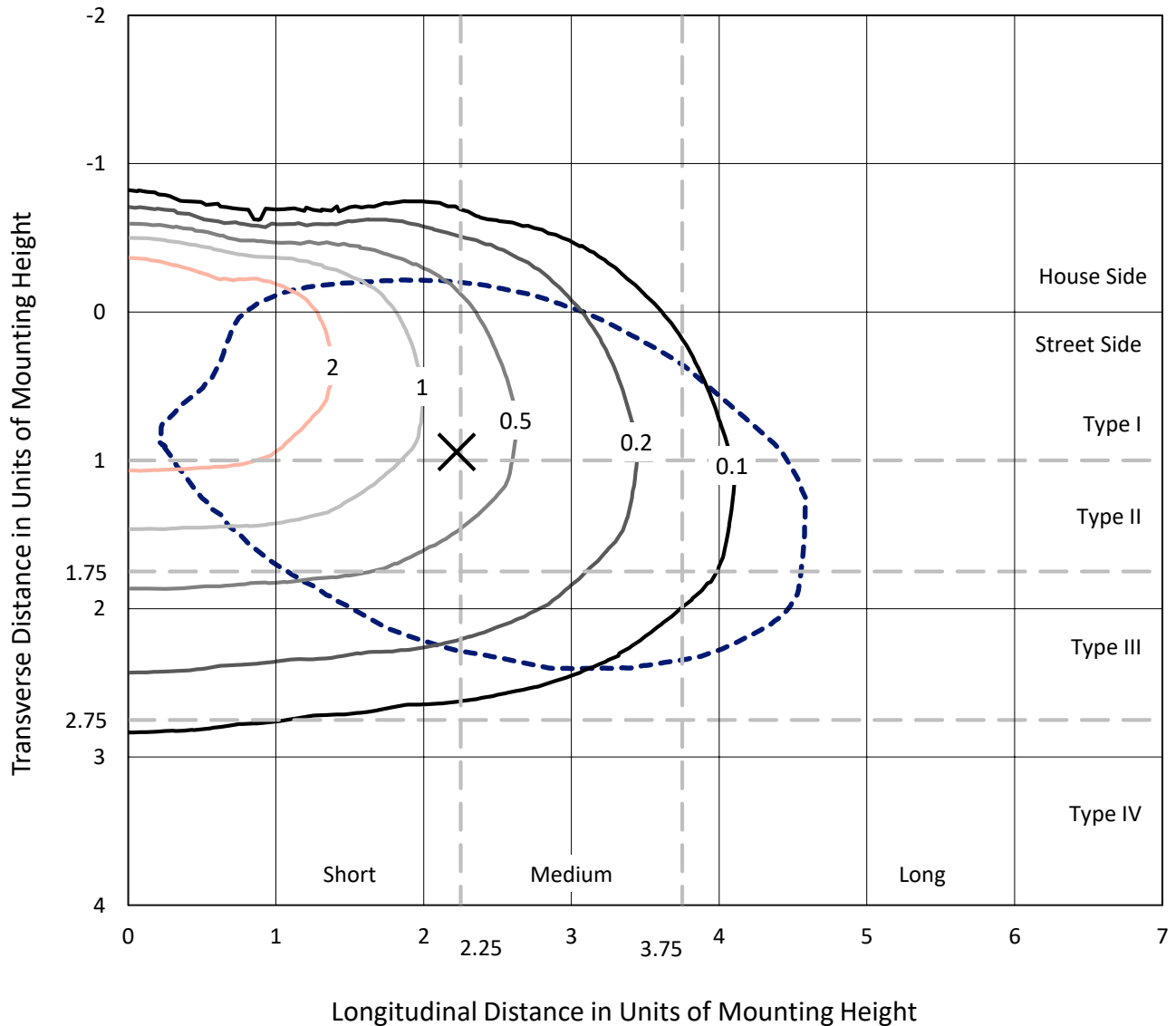
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

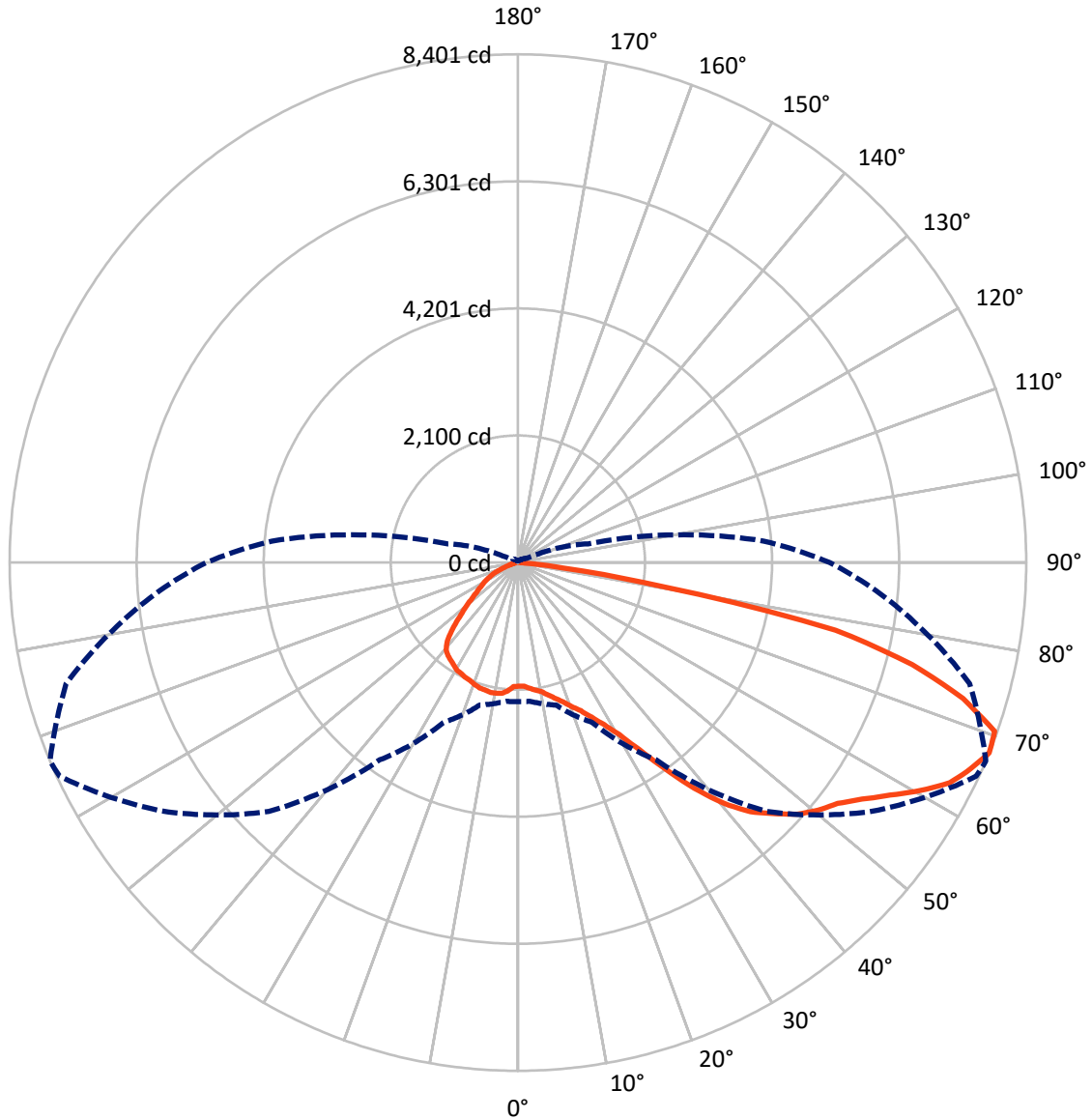
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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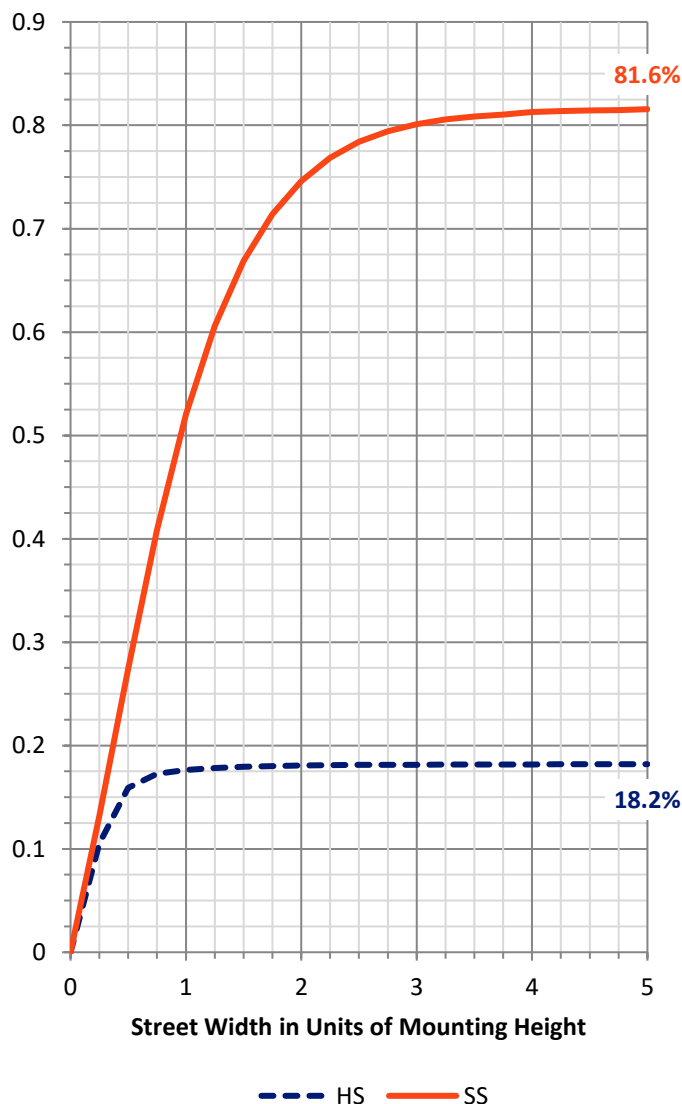
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2526.4	0.0	2526.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	11199.6	0.0	11199.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	13726.0	0.0	13726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	1.5
10°-20°	642.5	4.7
20°-30°	1095.4	8.0
30°-40°	1670.7	12.2
40°-50°	2355.2	17.2
50°-60°	2846.8	20.7
60°-70°	2998.2	21.8
70°-80°	1783.5	13.0
80°-90°	128.2	0.9
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°	13726.0	100.0
0°-180°	13726.0	100.0

Coefficient of Utilization



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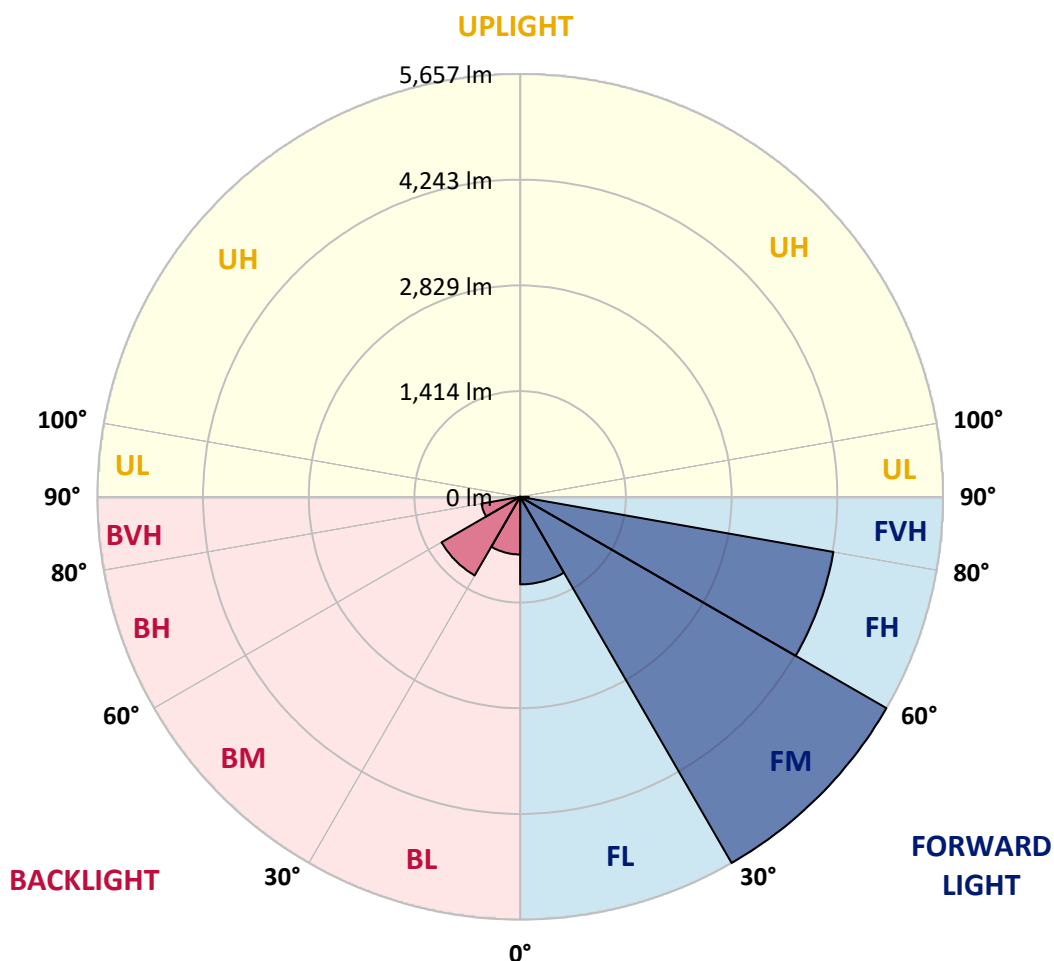
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1171.8	8.5			
FM	(30°-60°)	5657.2	41.2			
FH	(60°-80°)	4255.8	31.0			G2/5000
FVH	(80°-90°)	114.7	0.8			G2/225
BL	(0°-30°)	771.5	5.6	B2/1000		
BM	(30°-60°)	1215.5	8.9	B2/2500		
BH	(60°-80°)	525.9	3.8	B2/1000		G2/1000
BVH	(80°-90°)	13.5	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°	2043.4	2043.4	2043.4	2043.4	2043.4	2043.4	2043.4	2043.4	2043.4	2043.4	2043.4
2.5°	2086.6	2094.4	2078.7	2074.8	2054.2	2057.1	2053.2	2043.4	2047.3	2039.4	2044.3
5°	2167.1	2146.5	2140.6	2128.8	2110.1	2099.3	2083.6	2078.7	2089.5	2080.7	2082.6
7.5°	2252.5	2256.4	2229.9	2207.3	2174.0	2166.1	2138.6	2121.9	2132.7	2120.9	2127.8
10°	2359.5	2365.4	2337.0	2306.5	2278.0	2236.8	2202.4	2175.9	2173.0	2167.1	2176.9
12.5°	2500.0	2499.0	2467.6	2430.2	2374.3	2345.8	2280.0	2242.7	2247.6	2226.0	2224.0
15°	2663.0	2649.2	2612.9	2574.6	2504.9	2448.9	2369.4	2323.2	2331.1	2306.5	2300.6
17.5°	2822.0	2808.3	2779.8	2737.6	2673.8	2587.3	2490.1	2423.4	2421.4	2409.6	2374.3
20°	2985.0	2990.9	2952.6	2914.3	2850.5	2734.6	2624.7	2538.3	2540.2	2519.6	2450.9
22.5°	3175.5	3164.7	3118.6	3100.9	3028.2	2901.6	2778.8	2679.6	2660.0	2656.1	2537.3
25°	3357.2	3350.3	3308.1	3287.5	3226.6	3110.7	2951.6	2832.8	2829.9	2817.1	2649.2
27.5°	3501.5	3509.4	3505.4	3490.7	3423.9	3310.0	3170.6	3028.2	3030.2	3011.5	2794.5
30°	3706.7	3683.2	3674.3	3686.1	3680.2	3557.5	3409.2	3306.1	3299.2	3251.1	2978.2
32.5°	3826.5	3838.3	3850.1	3891.3	3892.3	3801.0	3704.8	3655.7	3683.2	3691.0	3434.7
35°	3936.5	3936.5	4004.3	4108.3	4144.7	4113.2	4072.0	4133.9	4187.9	4296.9	3996.4
37.5°	4034.7	4063.2	4127.0	4257.6	4376.4	4406.8	4497.2	4667.0	4732.8	4832.0	4469.7
40°	4117.2	4137.8	4219.3	4379.3	4583.6	4723.0	4891.9	5161.9	5230.7	5212.0	4732.8
42.5°	4025.9	4059.2	4189.8	4518.8	4776.0	5038.2	5259.1	5550.8	5634.2	5461.4	5009.7
45°	3976.8	3989.5	4126.0	4499.1	4917.4	5357.3	5607.7	5920.0	5920.0	5726.5	5205.1
47.5°	3878.6	3901.2	4063.2	4473.6	5067.7	5623.4	5876.8	6194.9	6215.5	5976.9	5399.6
50°	3779.4	3807.9	3991.5	4428.4	5152.1	5890.5	6105.6	6424.7	6432.5	6148.8	5571.4
52.5°	3681.2	3695.9	3901.2	4399.0	5245.4	6028.0	6302.9	6611.2	6615.2	6406.0	5760.9
55°	3505.4	3541.8	3753.9	4291.0	5240.5	6090.8	6406.0	6860.6	6898.9	6685.9	5947.5
57.5°	3340.5	3351.3	3583.0	4134.8	5161.0	6163.5	6627.9	7218.1	7255.4	6940.2	6085.9
60°	3120.5	3132.3	3381.7	3949.3	5043.1	6236.2	6909.7	7635.4	7652.1	7207.3	6190.0
62.5°	2890.8	2931.0	3136.2	3664.5	4798.6	6248.9	7148.4	8020.3	8013.4	7439.0	6258.7
65°	2620.7	2635.5	2832.8	3331.6	4424.5	6151.7	7246.5	8206.9	8223.5	7602.0	6213.6
67.5°	2296.7	2302.6	2438.1	2917.3	3981.7	5816.9	7165.0	8359.1	8401.3	7729.6	6025.0
70°	1814.6	1823.4	1948.1	2403.7	3353.2	5304.3	7027.6	8376.7	8359.1	7614.8	5738.3
72.5°	1264.7	1251.9	1373.7	1686.0	2539.2	4362.7	6363.8	7663.9	7695.3	7045.2	5138.4
75°	605.8	609.8	851.3	1036.9	1425.7	3116.6	5296.5	6599.5	6731.0	6139.9	4185.9
77.5°	103.1	105.1	224.9	408.5	574.4	1307.9	3512.3	5256.2	5368.1	4819.2	2833.8
80°	82.5	82.5	110.0	219.9	304.4	542.0	1330.5	2330.1	2451.8	2182.8	1044.8
82.5°	56.0	58.9	78.6	128.6	108.0	212.1	483.1	737.4	757.1	686.4	429.1
85°	31.4	32.4	40.3	52.0	45.2	78.6	99.2	101.1	107.0	83.5	63.8
87.5°	3.9	8.8	8.8	8.8	3.9	3.9	2.9	2.9	3.9	2.9	2.9
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°	2043.4	2043.4	2043.4	2043.4	2043.4	2043.4	2043.4	2043.4	2043.4	2043.4	2043.4
2.5°	2041.4	2029.6	2055.2	2050.2	2067.9	2065.0	2079.7	2087.6	2104.2	2125.8	2123.9
5°	2084.6	2083.6	2114.1	2128.8	2144.5	2159.2	2160.2	2174.9	2189.7	2222.1	2221.1
7.5°	2125.8	2134.7	2177.9	2178.9	2184.8	2195.6	2180.8	2185.7	2189.7	2201.5	2205.4
10°	2174.0	2190.7	2191.6	2187.7	2169.1	2168.1	2134.7	2138.6	2120.9	2134.7	2127.8
12.5°	2235.8	2222.1	2214.2	2187.7	2159.2	2120.9	2089.5	2046.3	2036.5	2036.5	2039.4
15°	2296.7	2276.1	2208.3	2166.1	2114.1	2053.2	2002.1	1953.0	1928.5	1917.7	1915.7
17.5°	2349.7	2306.5	2210.3	2155.3	2057.1	1967.8	1891.2	1812.6	1774.3	1749.8	1745.8
20°	2392.9	2346.8	2216.2	2120.0	1995.3	1863.7	1747.8	1648.6	1573.0	1517.1	1523.0
22.5°	2465.6	2391.9	2212.3	2077.7	1923.6	1752.7	1577.9	1441.5	1314.8	1283.4	1292.2
25°	2553.0	2456.8	2234.8	2052.2	1840.1	1613.3	1383.5	1225.4	1089.9	1046.7	1049.7
27.5°	2654.1	2535.3	2260.4	2010.0	1753.7	1441.5	1164.6	969.2	861.1	775.7	768.8
30°	2815.2	2642.3	2287.9	1982.5	1632.9	1250.0	925.9	722.7	587.2	541.0	541.0
32.5°	3193.2	2859.3	2332.1	1916.7	1473.9	1035.9	675.6	473.3	353.5	312.2	313.2
35°	3673.3	3297.3	2432.2	1836.2	1286.3	785.5	417.3	263.2	207.2	186.6	184.6
37.5°	4131.9	3699.9	2646.3	1741.9	1049.7	497.8	234.7	162.0	141.4	140.4	141.4
40°	4414.7	4018.0	2861.3	1616.2	766.9	274.0	152.2	132.6	129.6	126.7	126.7
42.5°	4675.9	4237.0	3024.3	1423.8	457.6	165.9	133.5	120.8	118.8	113.9	113.9
45°	4888.0	4394.1	3037.1	1167.5	242.5	147.3	122.7	110.0	106.0	103.1	102.1
47.5°	5089.3	4547.3	2990.9	894.5	172.8	136.5	114.9	101.1	96.2	98.2	97.2
50°	5224.8	4700.4	2865.2	703.1	165.0	126.7	106.0	92.3	90.3	94.3	93.3
52.5°	5371.1	4826.1	2620.7	546.9	153.2	116.8	97.2	86.4	82.5	85.4	86.4
55°	5486.9	4824.2	2441.0	427.1	145.3	109.0	91.3	81.5	74.6	74.6	73.6
57.5°	5543.9	4778.0	2296.7	335.8	136.5	101.1	85.4	71.7	63.8	61.9	60.9
60°	5541.0	4732.8	2128.8	275.9	127.6	92.3	76.6	60.9	53.0	49.1	49.1
62.5°	5509.5	4626.8	1862.7	237.6	118.8	85.4	63.8	50.1	44.2	40.3	41.2
65°	5429.0	4422.6	1535.7	202.3	110.0	82.5	54.0	44.2	38.3	34.4	34.4
67.5°	5150.2	4079.9	1197.9	169.9	101.1	68.7	47.1	37.3	32.4	28.5	28.5
70°	4755.4	3557.5	788.5	143.4	90.3	59.9	42.2	32.4	27.5	23.6	22.6
72.5°	4053.4	2842.6	400.6	122.7	77.6	53.0	37.3	28.5	23.6	19.6	18.7
75°	3108.7	1914.7	249.4	98.2	60.9	47.1	33.4	25.5	19.6	14.7	13.7
77.5°	1853.9	770.8	176.7	68.7	41.2	37.3	27.5	20.6	15.7	10.8	10.8
80°	585.2	340.7	119.8	47.1	26.5	25.5	20.6	14.7	10.8	7.9	7.9
82.5°	330.9	216.0	80.5	31.4	18.7	16.7	11.8	8.8	6.9	5.9	5.9
85°	55.0	43.2	24.5	11.8	8.8	7.9	4.9	2.9	2.0	1.0	2.0
87.5°	2.9	2.9	3.9	3.9	3.9	2.9	2.0	0.0	0.0	0.0	0.0
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)