

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: P509478

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509478
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-CA2-100-760-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 930mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13934 lumens
Efficiency: N/A
Efficacy: 135.8 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

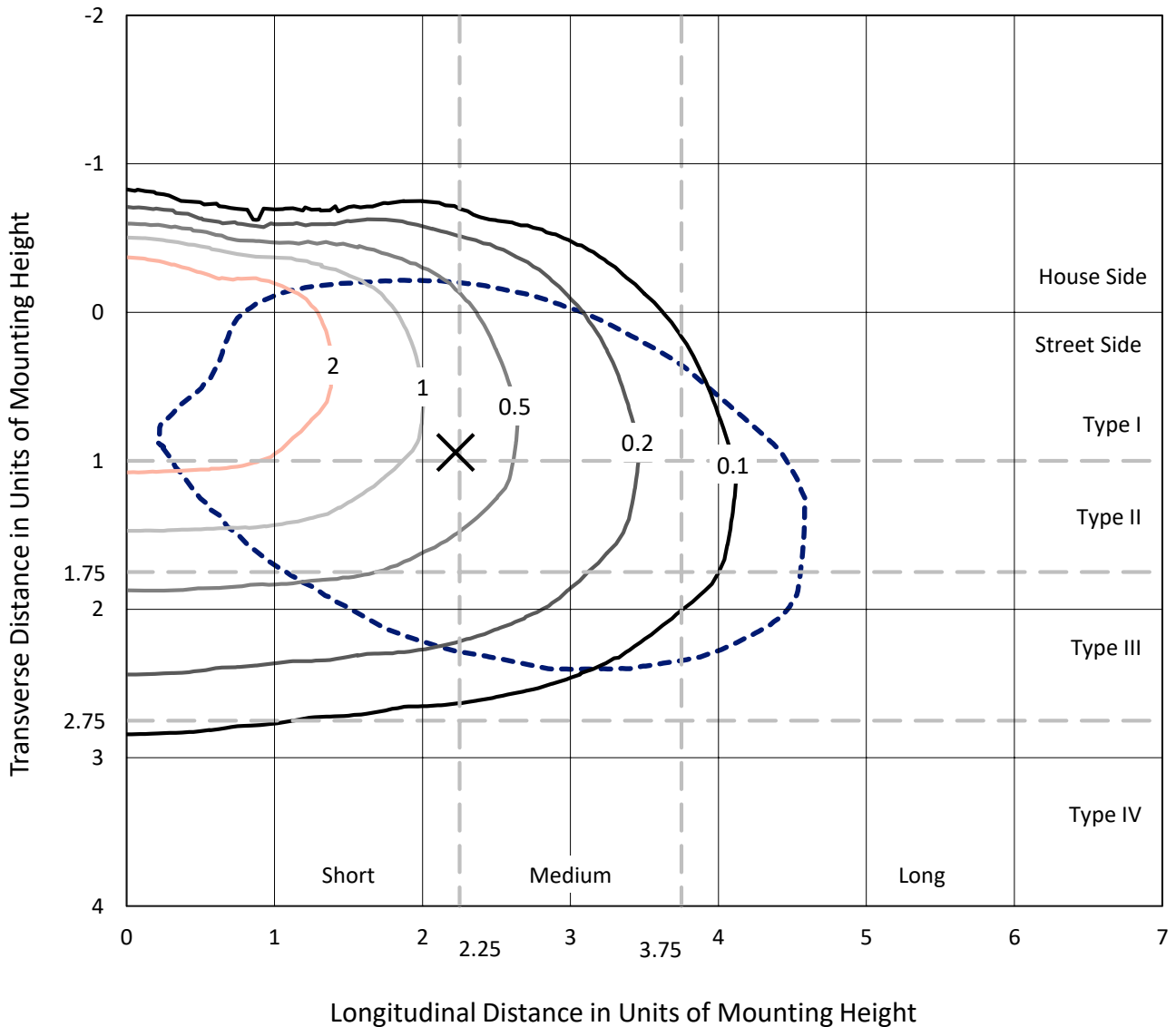
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

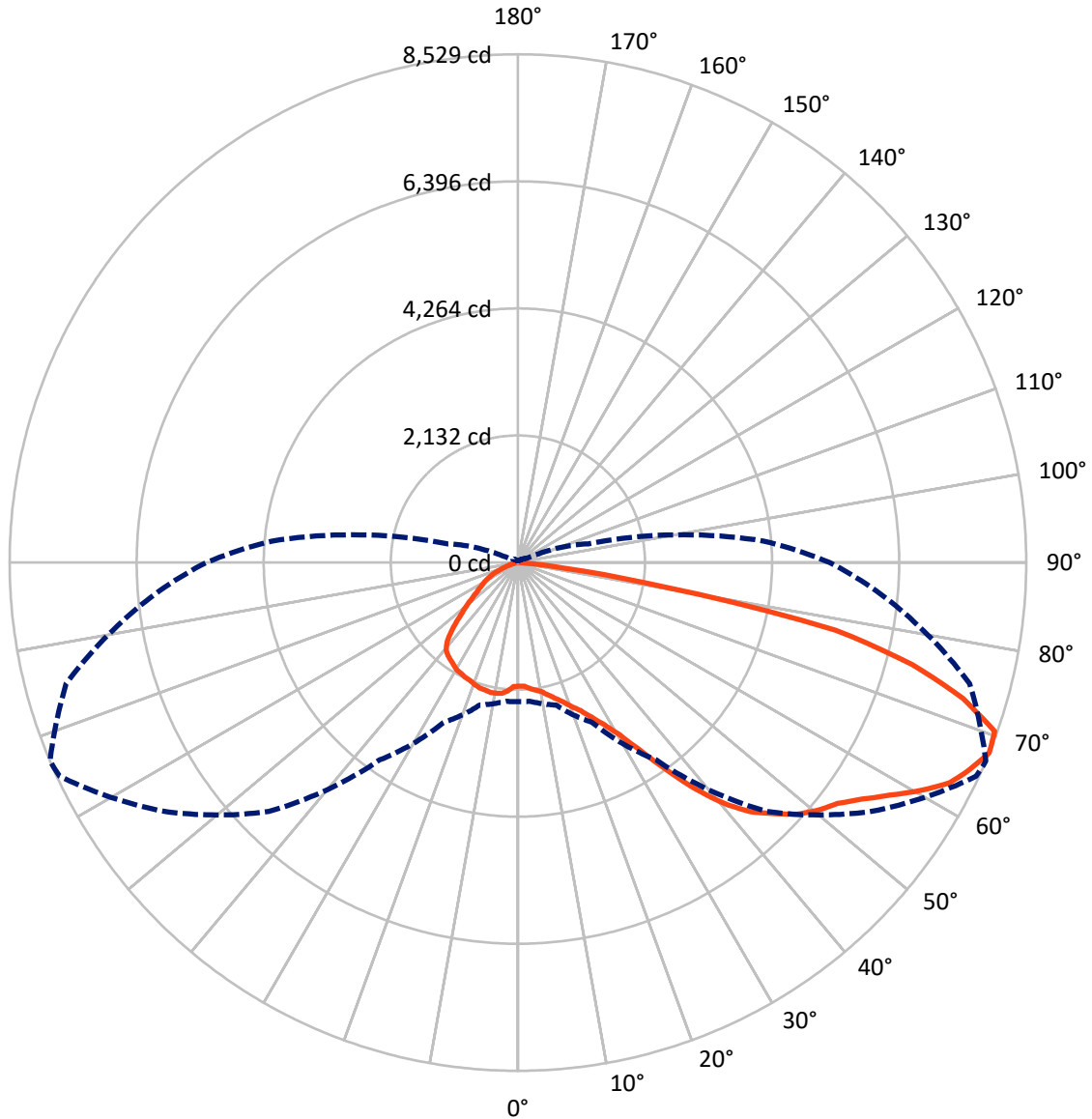
✕ Max cd
 - - - 1/2 Max cd



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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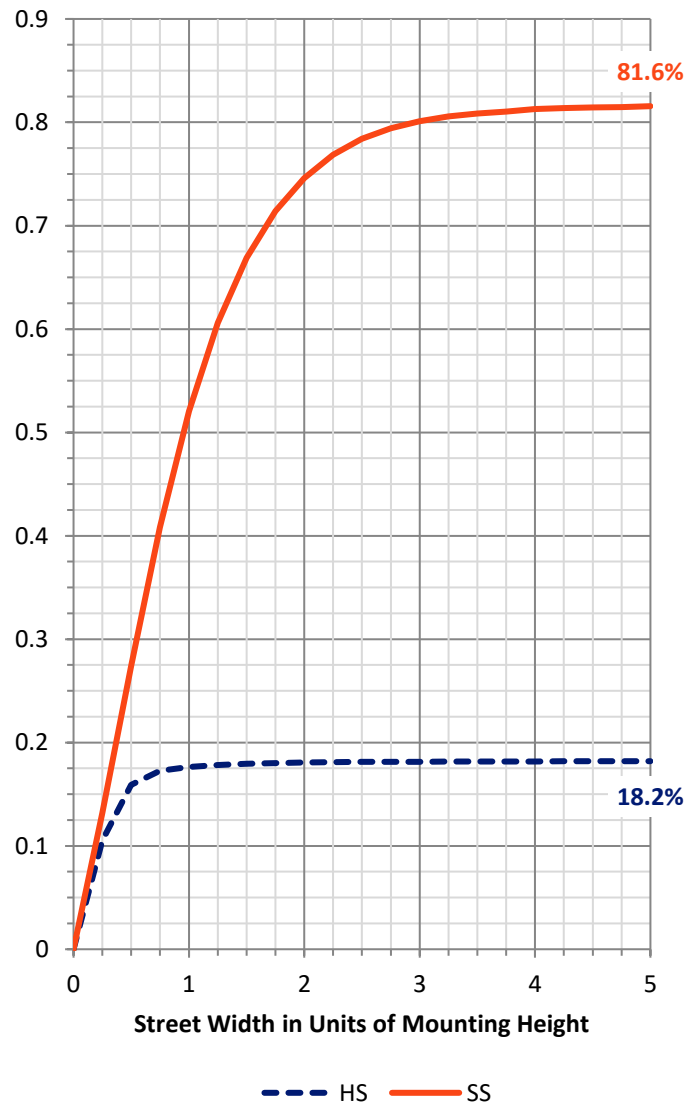
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2564.7	0.0	2564.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	11369.3	0.0	11369.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	13934.0	0.0	13934.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	1.5
10°-20°	652.2	4.7
20°-30°	1112.0	8.0
30°-40°	1696.0	12.2
40°-50°	2390.9	17.2
50°-60°	2889.9	20.7
60°-70°	3043.6	21.8
70°-80°	1810.6	13.0
80°-90°	130.2	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°	13934.0	100.0
0°-180°	13934.0	100.0



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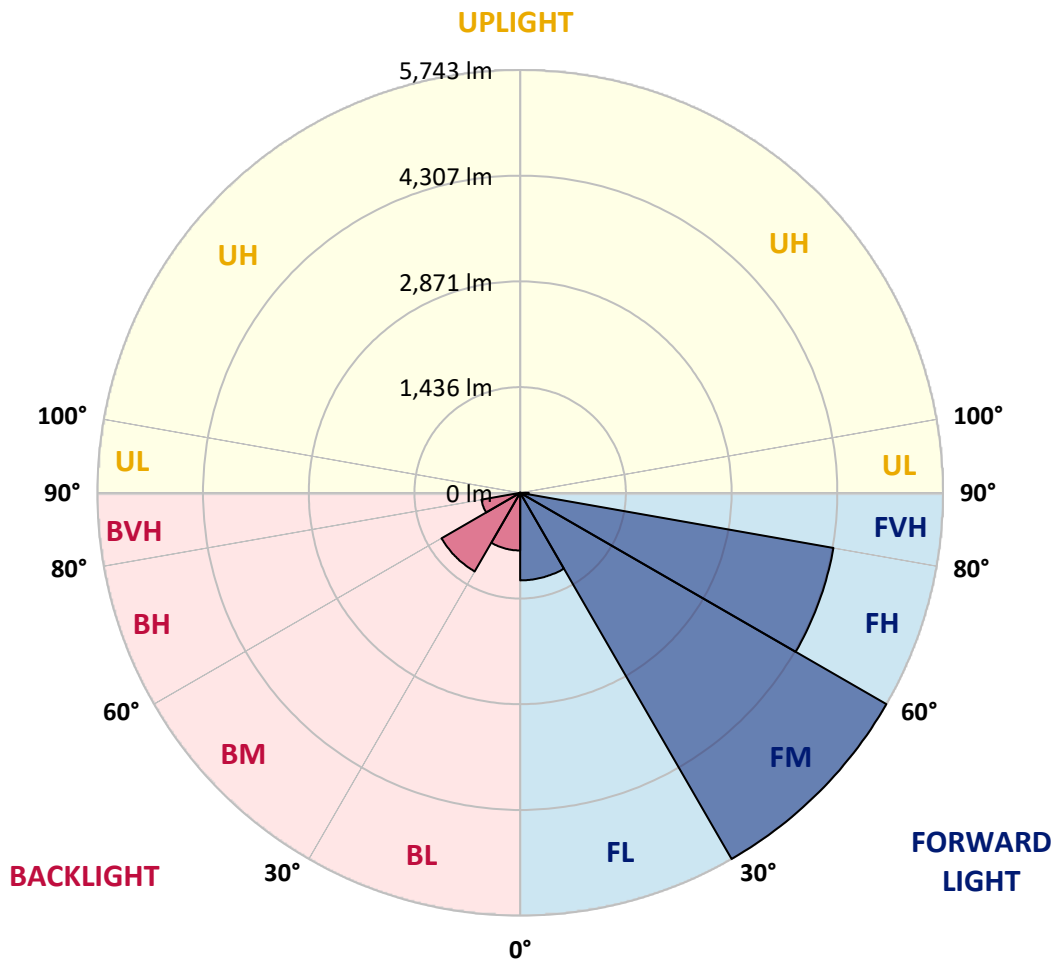
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1189.6	8.5			
FM	(30°-60°)	5743.0	41.2			
FH	(60°-80°)	4320.3	31.0			G2/5000
FVH	(80°-90°)	116.5	0.8			G2/225
BL	(0°-30°)	783.2	5.6	B2/1000		
BM	(30°-60°)	1233.9	8.9	B2/2500		
BH	(60°-80°)	533.9	3.8	B2/1000		G2/1000
BVH	(80°-90°)	13.7	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°	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3
2.5°	2118.2	2126.2	2110.2	2106.2	2085.3	2088.3	2084.3	2074.3	2078.3	2070.3	2075.3
5°	2199.9	2179.0	2173.0	2161.1	2142.1	2131.1	2115.2	2110.2	2121.2	2112.2	2114.2
7.5°	2286.7	2290.6	2263.7	2240.8	2206.9	2198.9	2171.0	2154.1	2165.0	2153.1	2160.1
10°	2395.3	2401.3	2372.4	2341.5	2312.6	2270.7	2235.8	2208.9	2205.9	2199.9	2209.9
12.5°	2537.8	2536.8	2504.9	2467.1	2410.3	2381.3	2314.6	2276.7	2281.7	2259.7	2257.7
15°	2703.3	2689.4	2652.5	2613.6	2542.8	2486.0	2405.3	2358.4	2366.4	2341.5	2335.5
17.5°	2864.8	2850.8	2821.9	2779.1	2714.3	2626.6	2527.9	2460.1	2458.1	2446.1	2410.3
20°	3030.3	3036.2	2997.4	2958.5	2893.7	2776.1	2664.4	2576.7	2578.7	2557.8	2488.0
22.5°	3223.6	3212.7	3165.8	3147.9	3074.1	2945.5	2820.9	2720.3	2700.3	2696.3	2575.7
25°	3408.0	3401.1	3358.2	3337.3	3275.5	3157.8	2996.4	2875.8	2872.8	2859.8	2689.4
27.5°	3554.6	3562.5	3558.6	3543.6	3475.8	3360.2	3218.7	3074.1	3076.1	3057.2	2836.9
30°	3762.9	3739.0	3730.0	3742.0	3736.0	3611.4	3460.9	3356.2	3349.2	3300.4	3023.3
32.5°	3884.5	3896.5	3908.4	3950.3	3951.3	3858.6	3760.9	3711.1	3739.0	3747.0	3486.8
35°	3996.2	3996.2	4064.9	4170.6	4207.5	4175.6	4133.7	4196.5	4251.3	4362.0	4057.0
37.5°	4095.8	4124.7	4189.5	4322.1	4442.7	4473.6	4565.3	4737.8	4804.6	4905.2	4537.4
40°	4179.6	4200.5	4283.2	4445.7	4653.0	4794.6	4966.0	5240.2	5309.9	5291.0	4804.6
42.5°	4086.9	4120.8	4253.3	4587.3	4848.4	5114.6	5338.8	5634.9	5719.6	5544.2	5085.7
45°	4037.0	4050.0	4188.5	4567.3	4992.0	5438.5	5692.7	6009.7	6009.7	5813.3	5284.0
47.5°	3937.3	3960.3	4124.7	4541.4	5144.5	5708.7	5965.8	6288.8	6309.7	6067.5	5481.4
50°	3836.7	3865.6	4052.0	4495.6	5230.2	5979.8	6198.1	6522.0	6530.0	6241.9	5655.8
52.5°	3737.0	3751.9	3960.3	4465.6	5324.9	6119.3	6398.4	6711.4	6715.4	6503.1	5848.2
55°	3558.6	3595.4	3810.8	4356.0	5319.9	6183.1	6503.1	6964.6	7003.5	6787.2	6037.6
57.5°	3391.1	3402.1	3637.3	4197.5	5239.2	6256.9	6728.4	7327.4	7365.3	7045.4	6178.1
60°	3167.8	3179.8	3433.0	4009.1	5119.5	6330.7	7014.5	7751.1	7768.0	7316.5	6283.8
62.5°	2934.6	2975.4	3183.8	3720.0	4871.3	6343.6	7256.7	8141.8	8134.9	7551.7	6353.6
65°	2660.4	2675.4	2875.8	3382.1	4491.6	6244.9	7356.4	8331.2	8348.2	7717.2	6307.7
67.5°	2331.5	2337.5	2475.0	2961.5	4042.0	5905.0	7273.6	8485.7	8528.6	7846.8	6116.3
70°	1842.1	1851.1	1977.6	2440.2	3404.1	5384.7	7134.1	8503.7	8485.7	7730.2	5825.3
72.5°	1283.9	1270.9	1394.5	1711.5	2577.7	4428.8	6460.2	7780.0	7811.9	7152.0	5216.2
75°	615.0	619.0	864.2	1052.6	1447.3	3163.8	5376.7	6699.5	6833.0	6233.0	4249.3
77.5°	104.7	106.7	228.3	414.7	583.1	1327.7	3565.5	5335.8	5449.5	4892.3	2876.8
80°	83.7	83.7	111.6	223.3	309.0	550.2	1350.7	2365.4	2489.0	2215.9	1060.6
82.5°	56.8	59.8	79.7	130.6	109.6	215.3	490.4	748.6	768.5	696.8	435.6
85°	31.9	32.9	40.9	52.8	45.9	79.7	100.7	102.7	108.7	84.7	64.8
87.5°	4.0	9.0	9.0	9.0	4.0	4.0	3.0	3.0	4.0	3.0	3.0
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°	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3
2.5°	2072.3	2060.4	2086.3	2081.3	2099.3	2096.3	2111.2	2119.2	2136.1	2158.1	2156.1
5°	2116.2	2115.2	2146.1	2161.1	2177.0	2192.0	2193.0	2207.9	2222.9	2255.7	2254.8
7.5°	2158.1	2167.0	2210.9	2211.9	2217.9	2228.8	2213.9	2218.9	2222.9	2234.8	2238.8
10°	2206.9	2223.9	2224.8	2220.9	2201.9	2200.9	2167.0	2171.0	2153.1	2167.0	2160.1
12.5°	2269.7	2255.7	2247.8	2220.9	2192.0	2153.1	2121.2	2077.3	2067.4	2067.4	2070.3
15°	2331.5	2310.6	2241.8	2198.9	2146.1	2084.3	2032.5	1982.6	1957.7	1946.7	1944.7
17.5°	2385.3	2341.5	2243.8	2188.0	2088.3	1997.6	1919.8	1840.1	1801.2	1776.3	1772.3
20°	2429.2	2382.3	2249.8	2152.1	2025.5	1891.9	1774.3	1673.6	1596.9	1540.0	1546.0
22.5°	2503.0	2428.2	2245.8	2109.2	1952.7	1779.3	1601.9	1463.3	1334.7	1302.8	1311.8
25°	2591.7	2494.0	2268.7	2083.3	1868.0	1637.7	1404.5	1244.0	1106.4	1062.6	1065.6
27.5°	2694.3	2573.7	2294.6	2040.4	1780.3	1463.3	1182.2	983.8	874.2	787.5	780.5
30°	2857.8	2682.4	2322.5	2012.5	1657.7	1268.9	940.0	733.6	596.1	549.2	549.2
32.5°	3241.6	2902.7	2367.4	1945.7	1496.2	1051.6	685.8	480.5	358.8	317.0	318.0
35°	3729.0	3347.2	2469.1	1864.0	1305.8	797.4	423.6	267.1	210.3	189.4	187.4
37.5°	4194.5	3755.9	2686.4	1768.3	1065.6	505.4	238.2	164.5	143.5	142.5	143.5
40°	4481.6	4078.9	2904.7	1640.7	778.5	278.1	154.5	134.6	131.6	128.6	128.6
42.5°	4746.7	4301.2	3070.1	1445.4	464.5	168.5	135.6	122.6	120.6	115.6	115.6
45°	4962.1	4460.7	3083.1	1185.2	246.2	149.5	124.6	111.6	107.7	104.7	103.7
47.5°	5166.4	4616.2	3036.2	908.1	175.4	138.6	116.6	102.7	97.7	99.7	98.7
50°	5304.0	4771.7	2908.7	713.7	167.5	128.6	107.7	93.7	91.7	95.7	94.7
52.5°	5452.5	4899.3	2660.4	555.2	155.5	118.6	98.7	87.7	83.7	86.7	87.7
55°	5570.1	4897.3	2478.0	433.6	147.5	110.6	92.7	82.7	75.8	75.8	74.8
57.5°	5627.9	4850.4	2331.5	340.9	138.6	102.7	86.7	72.8	64.8	62.8	61.8
60°	5624.9	4804.6	2161.1	280.1	129.6	93.7	77.8	61.8	53.8	49.8	49.8
62.5°	5593.0	4696.9	1890.9	241.2	120.6	86.7	64.8	50.8	44.9	40.9	41.9
65°	5511.3	4489.6	1559.0	205.3	111.6	83.7	54.8	44.9	38.9	34.9	34.9
67.5°	5228.2	4141.7	1216.1	172.4	102.7	69.8	47.8	37.9	32.9	28.9	28.9
70°	4827.5	3611.4	800.4	145.5	91.7	60.8	42.9	32.9	27.9	23.9	22.9
72.5°	4114.8	2885.7	406.7	124.6	78.7	53.8	37.9	28.9	23.9	19.9	18.9
75°	3155.9	1943.8	253.2	99.7	61.8	47.8	33.9	25.9	19.9	15.0	14.0
77.5°	1882.0	782.5	179.4	69.8	41.9	37.9	27.9	20.9	15.9	11.0	11.0
80°	594.1	345.9	121.6	47.8	26.9	25.9	20.9	15.0	11.0	8.0	8.0
82.5°	335.9	219.3	81.7	31.9	18.9	16.9	12.0	9.0	7.0	6.0	6.0
85°	55.8	43.9	24.9	12.0	9.0	8.0	5.0	3.0	2.0	1.0	2.0
87.5°	3.0	3.0	4.0	4.0	4.0	3.0	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)