

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: P509470

Luminaire Tested: **VERD-G-CA2-100-750-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509470
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-CA2-100-750-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 930mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14235 lumens
Efficiency: N/A
Efficacy: 138.7 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

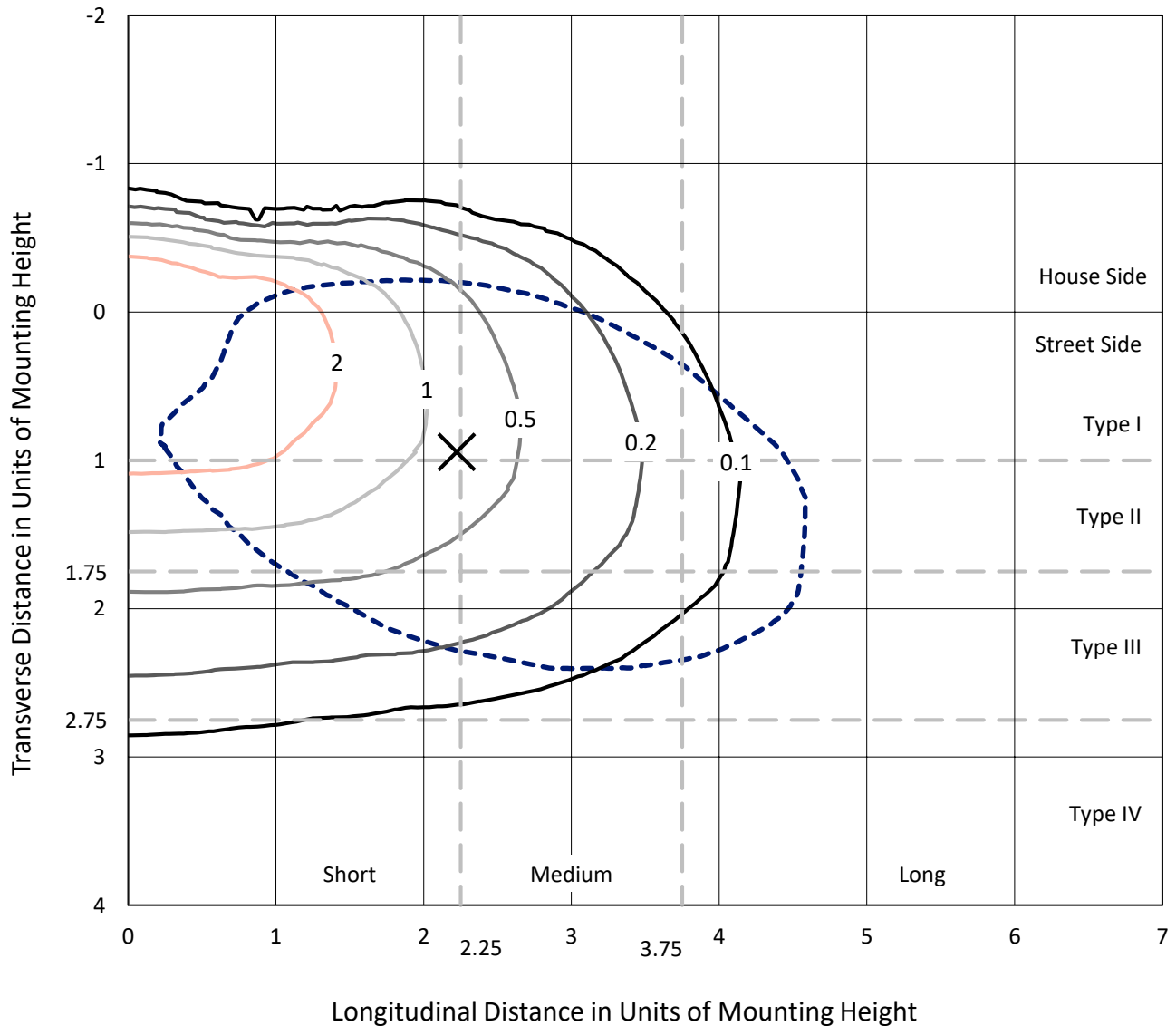
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

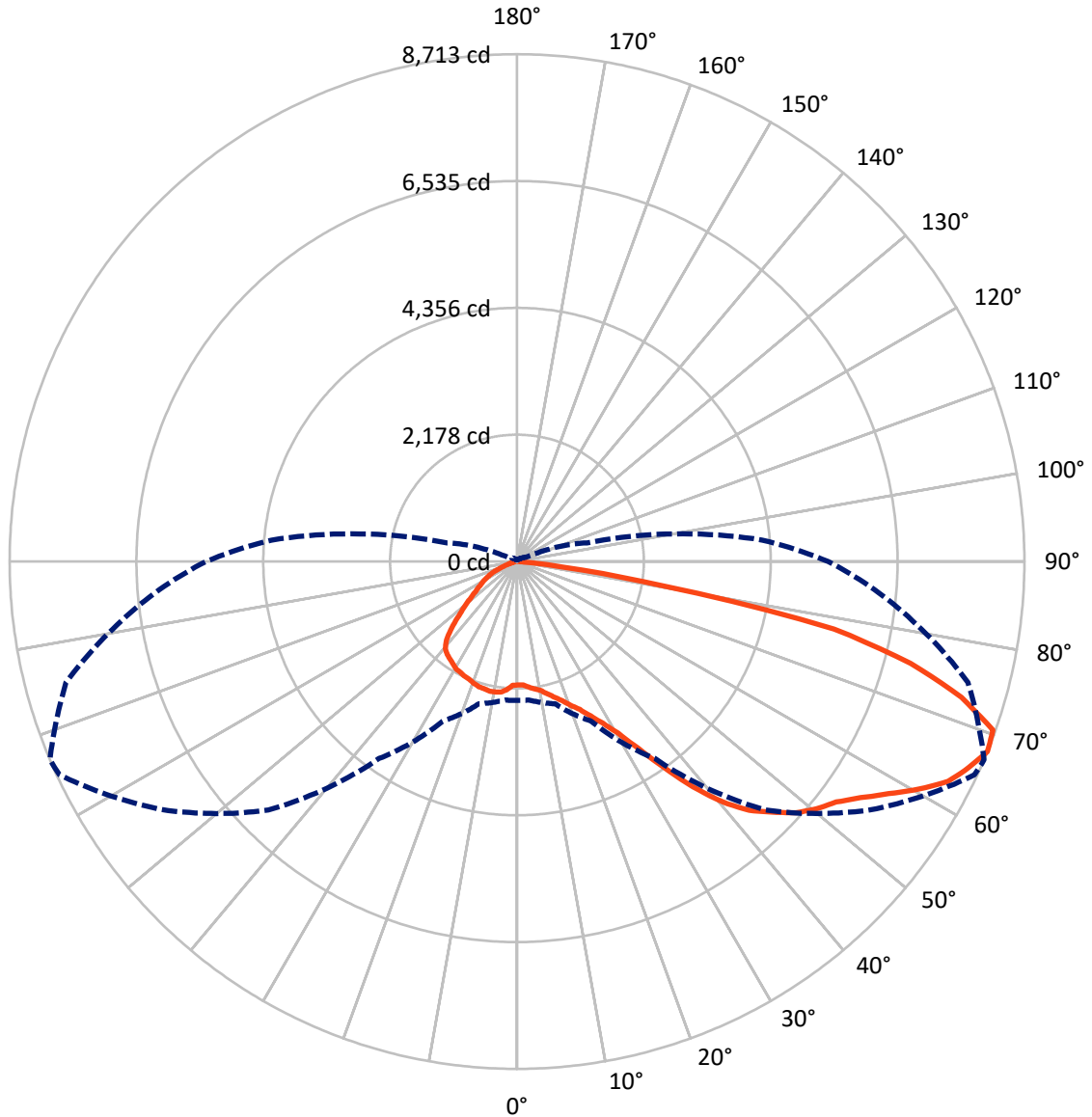
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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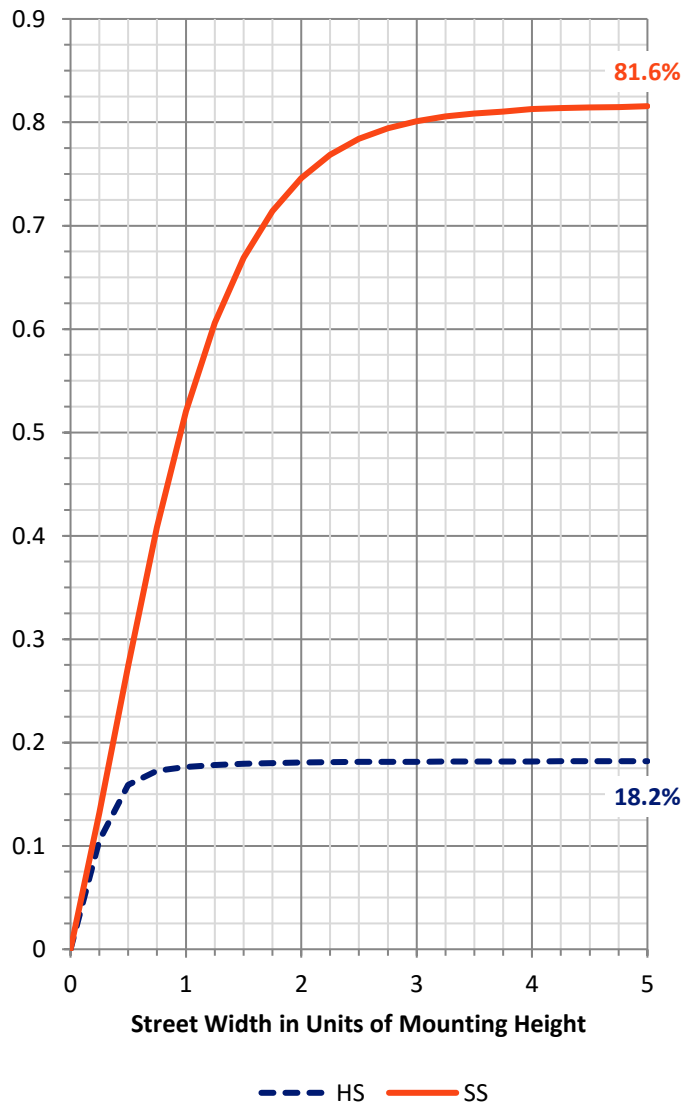
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2620.1	0.0	2620.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	11614.9	0.0	11614.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	14235.0	0.0	14235.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	1.5
10°-20°	666.3	4.7
20°-30°	1136.0	8.0
30°-40°	1732.7	12.2
40°-50°	2442.5	17.2
50°-60°	2952.4	20.7
60°-70°	3109.4	21.8
70°-80°	1849.7	13.0
80°-90°	133.0	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°	14235.0	100.0
0°-180°	14235.0	100.0



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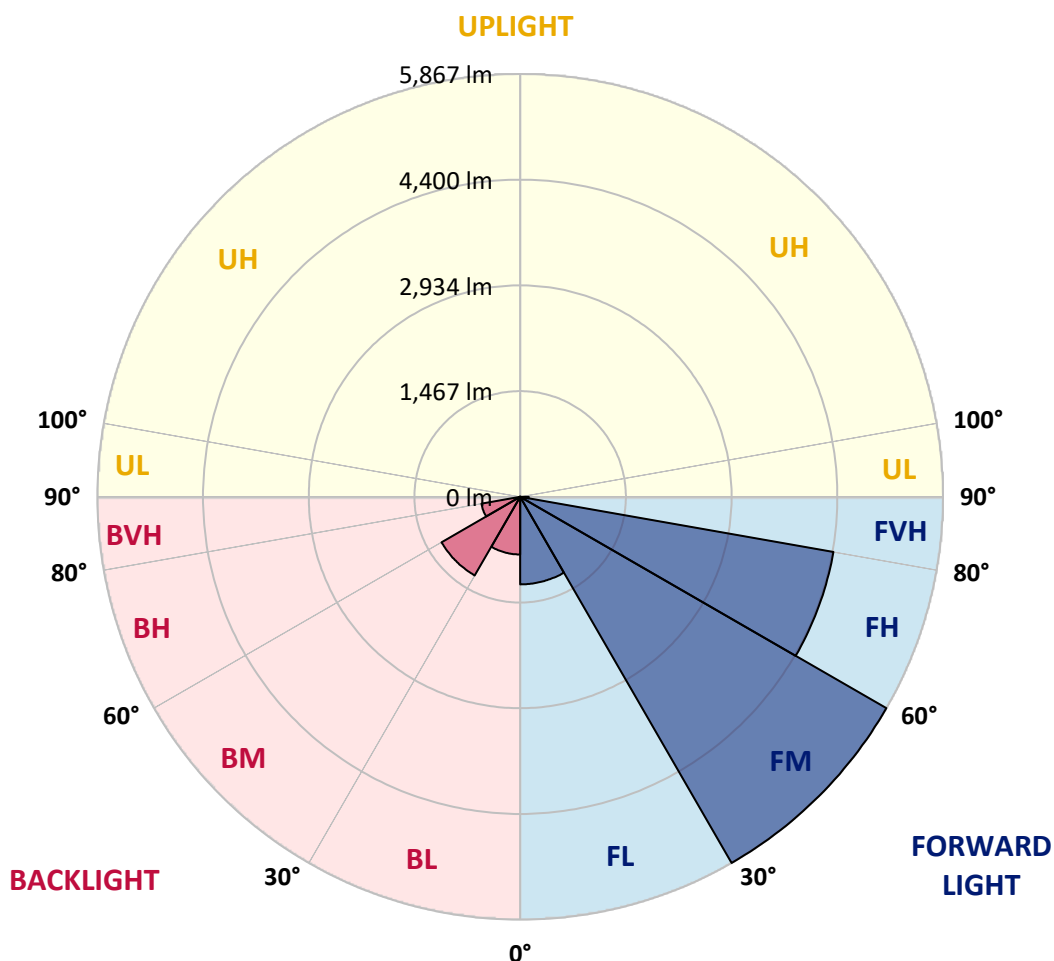
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1215.3	8.5			
FM	(30°-60°)	5867.0	41.2			
FH	(60°-80°)	4413.6	31.0			G2/5000
FVH	(80°-90°)	119.0	0.8			G2/225
BL	(0°-30°)	800.2	5.6	B2/1000		
BM	(30°-60°)	1260.5	8.9	B2/2500		
BH	(60°-80°)	545.5	3.8	B2/1000		G2/1000
BVH	(80°-90°)	14.0	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°	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1
2.5°	2163.9	2172.1	2155.8	2151.7	2130.3	2133.4	2129.3	2119.1	2123.2	2115.1	2120.2
5°	2247.5	2226.1	2220.0	2207.7	2188.4	2177.2	2160.9	2155.8	2167.0	2157.8	2159.9
7.5°	2336.0	2340.1	2312.6	2289.2	2254.6	2246.4	2217.9	2200.6	2211.8	2199.6	2206.7
10°	2447.0	2453.2	2423.6	2392.1	2362.5	2319.8	2284.1	2256.6	2253.6	2247.5	2257.6
12.5°	2592.7	2591.6	2559.1	2520.4	2462.3	2432.8	2364.6	2325.9	2331.0	2308.6	2306.5
15°	2761.7	2747.5	2709.8	2670.1	2597.8	2539.7	2457.2	2409.4	2417.5	2392.1	2385.9
17.5°	2926.7	2912.4	2882.9	2839.1	2772.9	2683.3	2582.5	2513.2	2511.2	2499.0	2462.3
20°	3095.7	3101.8	3062.1	3022.4	2956.2	2836.0	2722.0	2632.4	2634.4	2613.0	2541.7
22.5°	3293.3	3282.1	3234.2	3215.9	3140.5	3009.2	2881.9	2779.0	2758.7	2754.6	2631.4
25°	3481.7	3474.5	3430.7	3409.4	3346.2	3226.1	3061.1	2937.9	2934.8	2921.6	2747.5
27.5°	3631.4	3639.5	3635.4	3620.2	3550.9	3432.8	3288.2	3140.5	3142.6	3123.2	2898.2
30°	3844.2	3819.8	3810.6	3822.8	3816.7	3689.4	3535.6	3428.7	3421.6	3371.7	3088.6
32.5°	3968.4	3980.6	3992.9	4035.6	4036.7	3942.0	3842.2	3791.2	3819.8	3827.9	3562.1
35°	4082.5	4082.5	4152.7	4260.7	4298.4	4265.8	4223.0	4287.2	4343.2	4456.2	4144.6
37.5°	4184.3	4213.8	4280.0	4415.5	4538.7	4570.3	4663.9	4840.1	4908.3	5011.2	4635.4
40°	4269.9	4291.2	4375.8	4541.7	4753.6	4898.2	5073.3	5353.4	5424.6	5405.3	4908.3
42.5°	4175.1	4209.8	4345.2	4686.3	4953.2	5225.0	5454.2	5756.6	5843.2	5663.9	5195.5
45°	4124.2	4137.5	4279.0	4666.0	5099.8	5556.0	5815.7	6139.5	6139.5	5938.9	5398.2
47.5°	4022.4	4045.8	4213.8	4639.5	5255.6	5832.0	6094.7	6424.6	6446.0	6198.6	5599.8
50°	3919.5	3949.1	4139.5	4592.7	5343.2	6109.0	6332.0	6662.9	6671.1	6376.8	5778.0
52.5°	3817.7	3833.0	4045.8	4562.1	5439.9	6251.5	6536.7	6856.4	6860.5	6643.6	5974.5
55°	3635.4	3673.1	3893.1	4450.1	5434.8	6316.7	6643.6	7115.1	7154.8	6933.8	6168.0
57.5°	3464.4	3475.6	3715.9	4288.2	5352.3	6392.0	6873.7	7485.7	7524.4	7197.5	6311.6
60°	3236.2	3248.5	3507.1	4095.7	5230.1	6467.4	7166.0	7918.5	7935.8	7474.5	6419.5
62.5°	2998.0	3039.7	3252.5	3800.4	4976.6	6480.6	7413.4	8317.7	8310.6	7714.9	6490.8
65°	2717.9	2733.2	2937.9	3455.2	4588.6	6379.8	7515.3	8511.2	8528.5	7883.9	6444.0
67.5°	2381.9	2388.0	2528.5	3025.5	4129.3	6032.6	7430.7	8669.0	8712.8	8016.3	6248.5
70°	1881.9	1891.0	2020.4	2492.9	3477.6	5501.0	7288.2	8687.4	8669.0	7897.1	5951.1
72.5°	1311.6	1298.4	1424.6	1748.5	2633.4	4524.4	6599.8	7948.1	7980.6	7306.5	5328.9
75°	628.3	632.4	882.9	1075.4	1478.6	3232.2	5492.9	6844.2	6980.6	6367.6	4341.1
77.5°	106.9	109.0	233.2	423.6	595.7	1356.4	3642.6	5451.1	5567.2	4998.0	2938.9
80°	85.5	85.5	114.1	228.1	315.7	562.1	1379.8	2416.5	2542.8	2263.7	1083.5
82.5°	58.0	61.1	81.5	133.4	112.0	220.0	501.0	764.8	785.1	711.8	445.0
85°	32.6	33.6	41.8	54.0	46.8	81.5	102.9	104.9	111.0	86.6	66.2
87.5°	4.1	9.2	9.2	9.2	4.1	4.1	3.1	3.1	4.1	3.1	3.1
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°	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1
2.5°	2117.1	2104.9	2131.4	2126.3	2144.6	2141.5	2156.8	2165.0	2182.3	2204.7	2202.6
5°	2161.9	2160.9	2192.5	2207.7	2224.0	2239.3	2240.3	2255.6	2270.9	2304.5	2303.5
7.5°	2204.7	2213.8	2258.7	2259.7	2265.8	2277.0	2261.7	2266.8	2270.9	2283.1	2287.2
10°	2254.6	2271.9	2272.9	2268.8	2249.5	2248.5	2213.8	2217.9	2199.6	2213.8	2206.7
12.5°	2318.7	2304.5	2296.3	2268.8	2239.3	2199.6	2167.0	2122.2	2112.0	2112.0	2115.1
15°	2381.9	2360.5	2290.2	2246.4	2192.5	2129.3	2076.4	2025.5	2000.0	1988.8	1986.8
17.5°	2436.9	2392.1	2292.3	2235.2	2133.4	2040.7	1961.3	1879.8	1840.1	1814.7	1810.6
20°	2481.7	2433.8	2298.4	2198.6	2069.2	1932.8	1812.6	1709.8	1631.4	1573.3	1579.4
22.5°	2557.0	2480.6	2294.3	2154.8	1994.9	1817.7	1636.5	1494.9	1363.5	1331.0	1340.1
25°	2647.7	2547.9	2317.7	2128.3	1908.3	1673.1	1434.8	1270.9	1130.3	1085.5	1088.6
27.5°	2752.5	2629.3	2344.2	2084.5	1818.7	1494.9	1207.7	1005.1	893.1	804.5	797.4
30°	2919.5	2740.3	2372.7	2056.0	1693.5	1296.3	960.3	749.5	609.0	561.1	561.1
32.5°	3311.6	2965.4	2418.5	1987.8	1528.5	1074.3	700.6	490.8	366.6	323.8	324.8
35°	3809.6	3419.5	2522.4	1904.3	1334.0	814.7	432.8	272.9	214.9	193.5	191.4
37.5°	4285.1	3837.1	2744.4	1806.5	1088.6	516.3	243.4	168.0	146.6	145.6	146.6
40°	4578.4	4167.0	2967.4	1676.2	795.3	284.1	157.8	137.5	134.4	131.4	131.4
42.5°	4849.3	4394.1	3136.5	1476.6	474.5	172.1	138.5	125.3	123.2	118.1	118.1
45°	5069.2	4557.0	3149.7	1210.8	251.5	152.7	127.3	114.1	110.0	106.9	105.9
47.5°	5278.0	4715.9	3101.8	927.7	179.2	141.5	119.1	104.9	99.8	101.8	100.8
50°	5418.5	4874.7	2971.5	729.1	171.1	131.4	110.0	95.7	93.7	97.8	96.7
52.5°	5570.3	5005.1	2717.9	567.2	158.9	121.2	100.8	89.6	85.5	88.6	89.6
55°	5690.4	5003.0	2531.6	443.0	150.7	113.0	94.7	84.5	77.4	77.4	76.4
57.5°	5749.5	4955.2	2381.9	348.3	141.5	104.9	88.6	74.3	66.2	64.2	63.1
60°	5746.4	4908.3	2207.7	286.2	132.4	95.7	79.4	63.1	55.0	50.9	50.9
62.5°	5713.8	4798.4	1931.8	246.4	123.2	88.6	66.2	51.9	45.8	41.8	42.8
65°	5630.3	4586.6	1592.7	209.8	114.1	85.5	56.0	45.8	39.7	35.6	35.6
67.5°	5341.1	4231.2	1242.4	176.2	104.9	71.3	48.9	38.7	33.6	29.5	29.5
70°	4931.8	3689.4	817.7	148.7	93.7	62.1	43.8	33.6	28.5	24.4	23.4
72.5°	4203.7	2948.1	415.5	127.3	80.4	55.0	38.7	29.5	24.4	20.4	19.3
75°	3224.0	1985.7	258.7	101.8	63.1	48.9	34.6	26.5	20.4	15.3	14.3
77.5°	1922.6	799.4	183.3	71.3	42.8	38.7	28.5	21.4	16.3	11.2	11.2
80°	606.9	353.4	124.2	48.9	27.5	26.5	21.4	15.3	11.2	8.1	8.1
82.5°	343.2	224.0	83.5	32.6	19.3	17.3	12.2	9.2	7.1	6.1	6.1
85°	57.0	44.8	25.5	12.2	9.2	8.1	5.1	3.1	2.0	1.0	2.0
87.5°	3.1	3.1	4.1	4.1	4.1	3.1	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)