

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: P509590

Luminaire Tested: **VERD-G-CA2-130-727-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509590
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-CA2-130-727-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14674 lumens
Efficiency: N/A
Efficacy: 109.6 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

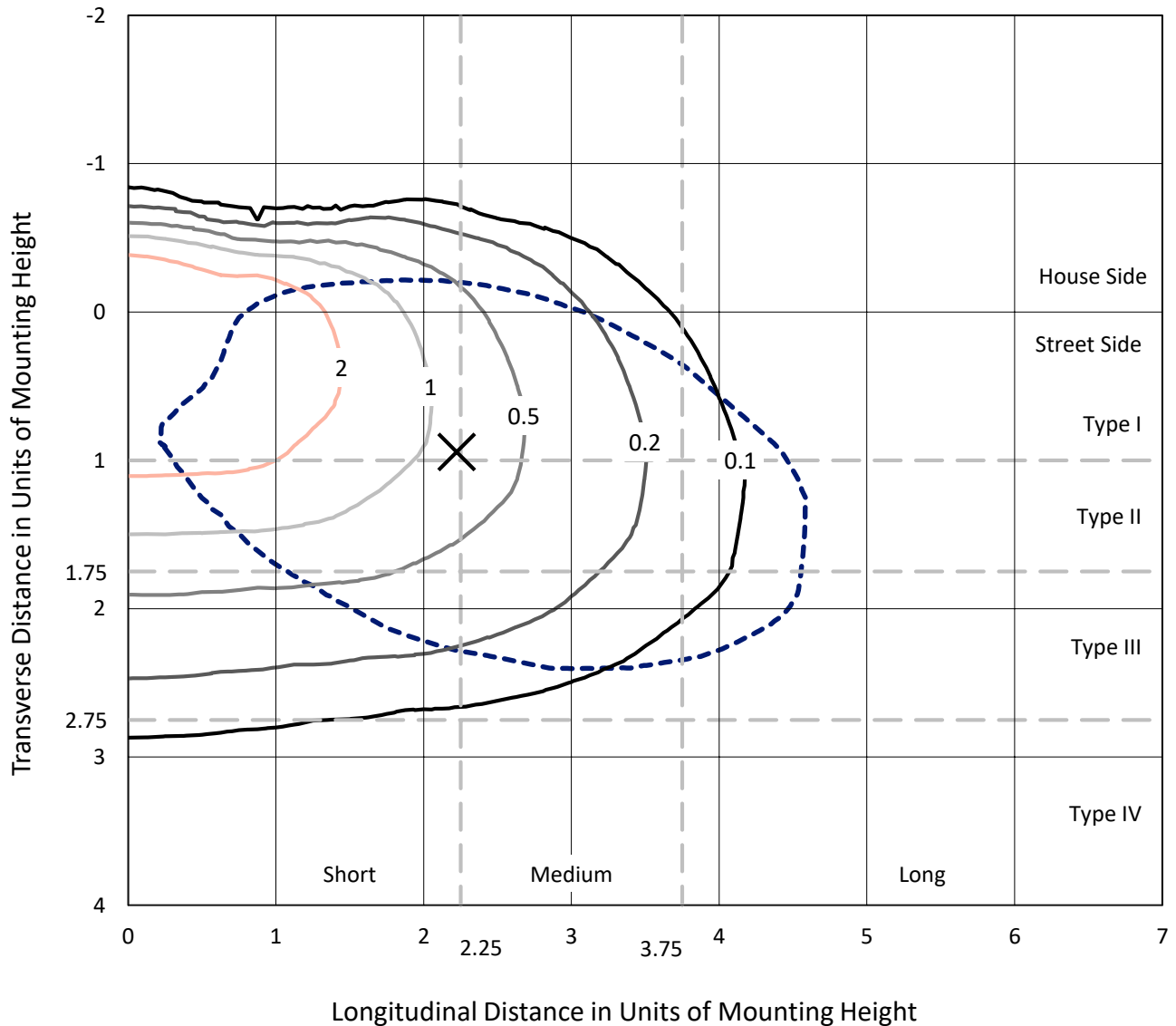
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

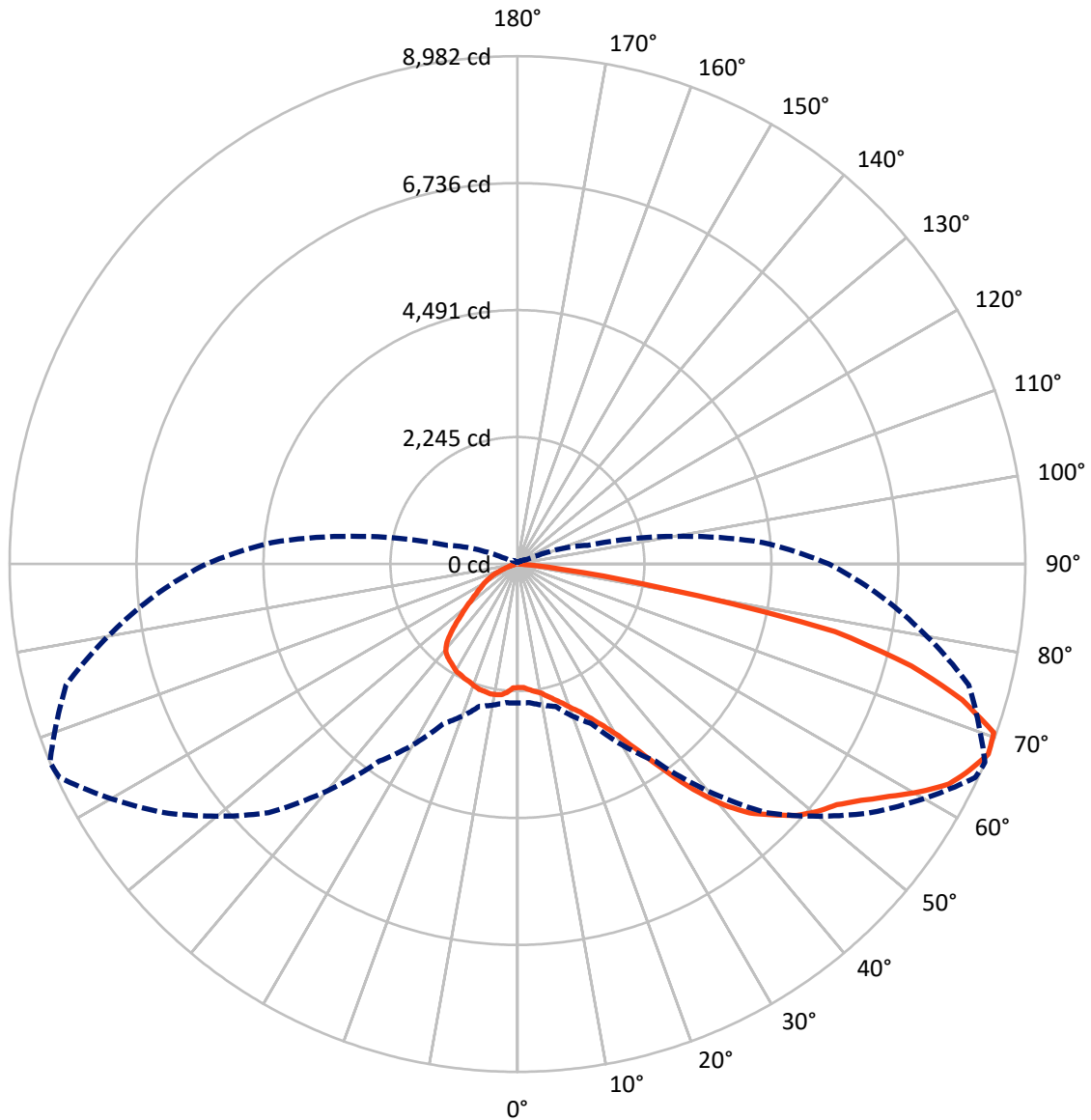
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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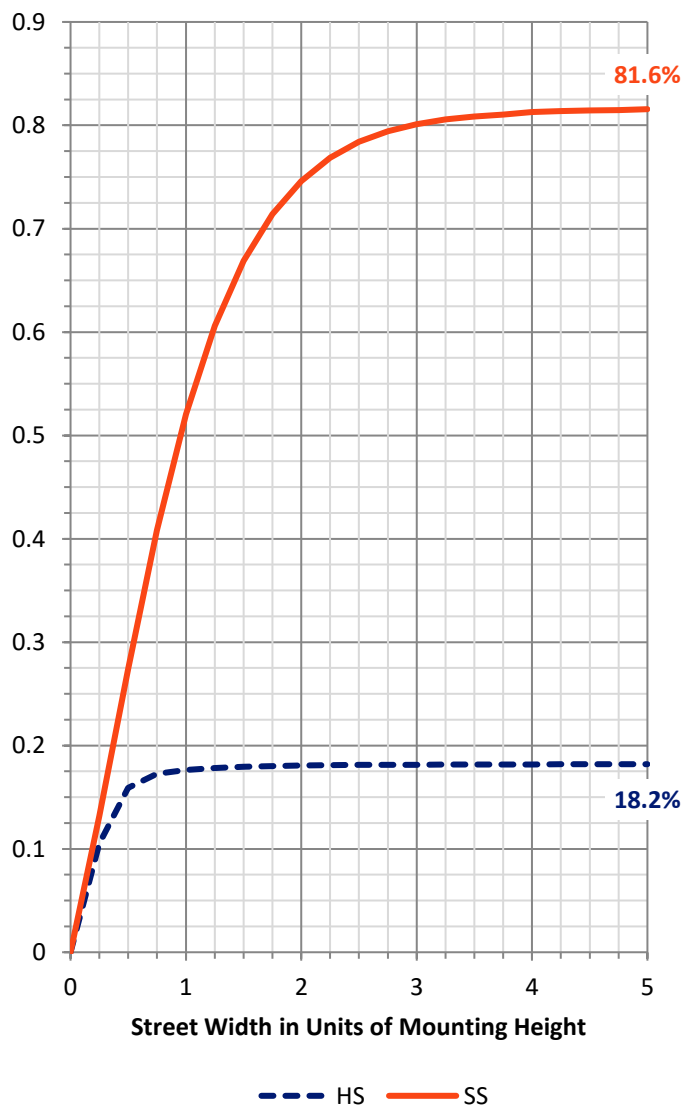
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2700.9	0.0	2700.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	11973.1	0.0	11973.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	14674.0	0.0	14674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	1.5
10°-20°	686.9	4.7
20°-30°	1171.0	8.0
30°-40°	1786.1	12.2
40°-50°	2517.9	17.2
50°-60°	3043.4	20.7
60°-70°	3205.3	21.8
70°-80°	1906.7	13.0
80°-90°	137.1	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°	14674.0	100.0
0°-180°	14674.0	100.0

Coefficient of Utilization



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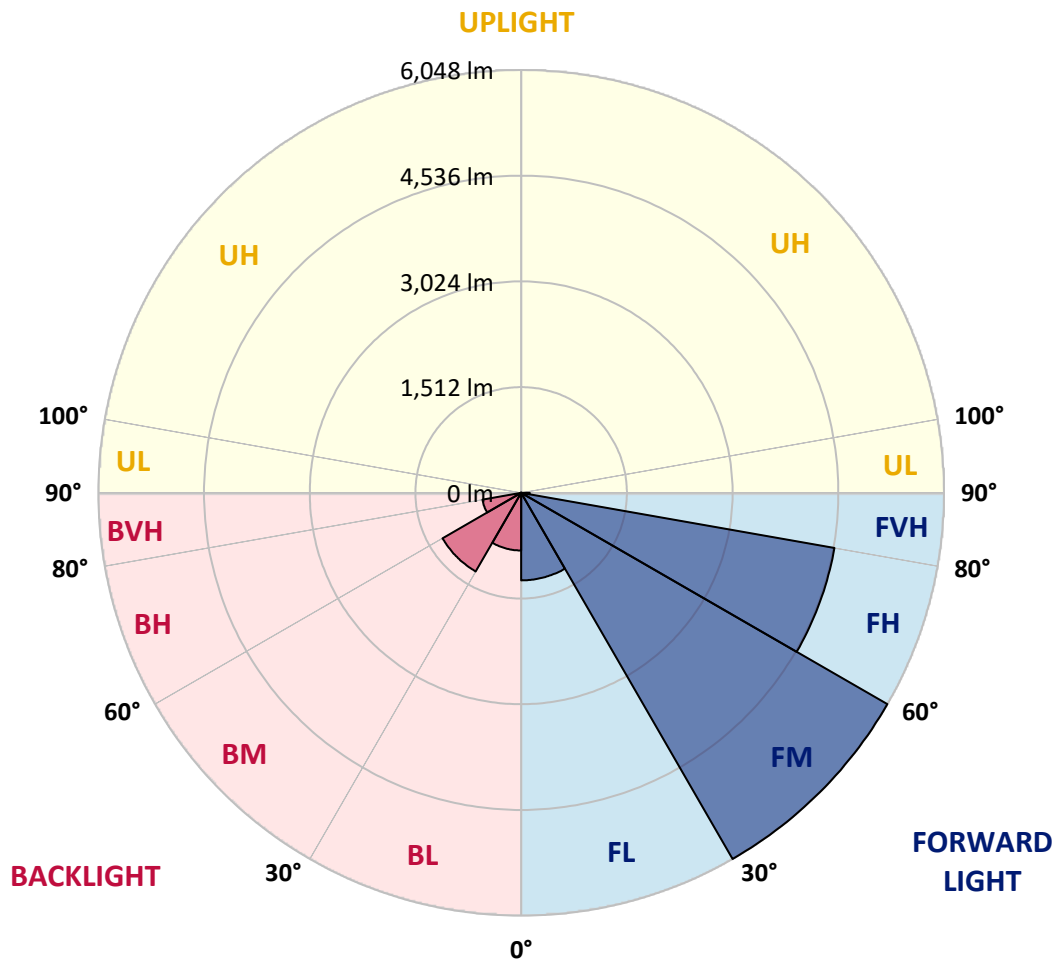
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1252.8	8.5			
FM	(30°-60°)	6048.0	41.2			
FH	(60°-80°)	4549.7	31.0			G2/5000
FVH	(80°-90°)	122.7	0.8			G2/225
BL	(0°-30°)	824.8	5.6	B2/1000		
BM	(30°-60°)	1299.4	8.9	B2/2500		
BH	(60°-80°)	562.3	3.8	B2/1000		G2/1000
BVH	(80°-90°)	14.4	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°	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5
2.5°	2230.7	2239.1	2222.3	2218.1	2196.0	2199.2	2195.0	2184.5	2188.7	2180.3	2185.5
5°	2316.8	2294.7	2288.4	2275.8	2255.9	2244.3	2227.5	2222.3	2233.8	2224.4	2226.5
7.5°	2408.1	2412.3	2383.9	2359.8	2324.1	2315.7	2286.3	2268.5	2280.0	2267.4	2274.8
10°	2522.5	2528.8	2498.4	2465.8	2435.4	2391.3	2354.6	2326.2	2323.1	2316.8	2327.3
12.5°	2672.6	2671.6	2638.0	2598.1	2538.3	2507.8	2437.5	2397.6	2402.8	2379.7	2377.6
15°	2846.9	2832.2	2793.3	2752.4	2677.9	2618.0	2533.0	2483.7	2492.1	2465.8	2459.5
17.5°	3016.9	3002.2	2971.8	2926.7	2858.4	2766.0	2662.1	2590.7	2588.6	2576.0	2538.3
20°	3191.2	3197.5	3156.5	3115.6	3047.4	2923.5	2805.9	2713.6	2715.7	2693.6	2620.1
22.5°	3394.8	3383.3	3334.0	3315.1	3237.4	3102.0	2970.7	2864.7	2843.7	2839.5	2712.5
25°	3589.0	3581.7	3536.6	3514.5	3449.4	3325.6	3155.5	3028.5	3025.3	3011.7	2832.2
27.5°	3743.3	3751.7	3747.5	3731.8	3660.4	3538.7	3389.6	3237.4	3239.5	3219.5	2987.5
30°	3962.7	3937.5	3928.1	3940.7	3934.4	3803.2	3644.7	3534.5	3527.1	3475.7	3183.8
32.5°	4090.8	4103.4	4116.0	4160.1	4161.1	4063.5	3960.6	3908.2	3937.5	3945.9	3672.0
35°	4208.4	4208.4	4280.8	4392.1	4430.9	4397.3	4353.2	4419.4	4477.1	4593.6	4272.4
37.5°	4313.4	4343.8	4412.0	4551.6	4678.7	4711.2	4807.8	4989.4	5059.7	5165.7	4778.4
40°	4401.5	4423.6	4510.7	4681.8	4900.2	5049.2	5229.8	5518.4	5591.9	5572.0	5059.7
42.5°	4303.9	4339.6	4479.2	4830.9	5105.9	5386.2	5622.4	5934.1	6023.4	5838.6	5355.7
45°	4251.4	4265.1	4411.0	4809.9	5257.1	5727.3	5995.0	6328.8	6328.8	6122.0	5564.6
47.5°	4146.4	4170.6	4343.8	4782.6	5417.7	6011.8	6282.7	6622.8	6644.8	6389.7	5772.5
50°	4040.4	4070.9	4267.2	4734.3	5508.0	6297.4	6527.2	6868.4	6876.8	6573.4	5956.2
52.5°	3935.5	3951.2	4170.6	4702.8	5607.7	6444.3	6738.2	7067.9	7072.1	6848.5	6158.8
55°	3747.5	3786.4	4013.1	4587.3	5602.4	6511.5	6848.5	7334.5	7375.4	7147.6	6358.2
57.5°	3571.2	3582.7	3830.5	4420.4	5517.4	6589.2	7085.7	7716.6	7756.5	7419.5	6506.2
60°	3336.1	3348.6	3615.3	4222.0	5391.4	6666.9	7387.0	8162.7	8180.6	7705.0	6617.5
62.5°	3090.4	3133.5	3352.8	3917.6	5130.0	6680.5	7642.1	8574.2	8566.9	7952.8	6691.0
65°	2801.7	2817.5	3028.5	3561.7	4730.1	6576.6	7747.0	8773.7	8791.5	8127.0	6642.7
67.5°	2455.3	2461.6	2606.5	3118.8	4256.7	6218.6	7659.9	8936.4	8981.5	8263.5	6441.2
70°	1939.9	1949.4	2082.7	2569.7	3584.8	5670.7	7512.9	8955.3	8936.4	8140.7	6134.6
72.5°	1352.1	1338.4	1468.6	1802.4	2714.6	4664.0	6803.3	8193.2	8226.8	7531.8	5493.3
75°	647.7	651.9	910.1	1108.5	1524.2	3331.9	5662.3	7055.3	7195.9	6564.0	4475.0
77.5°	110.2	112.3	240.4	436.7	614.1	1398.2	3754.9	5619.2	5738.9	5152.1	3029.5
80°	88.2	88.2	117.6	235.1	325.4	579.5	1422.4	2491.0	2621.2	2333.6	1116.9
82.5°	59.8	63.0	84.0	137.5	115.5	226.7	516.5	788.3	809.3	733.8	458.7
85°	33.6	34.6	43.0	55.6	48.3	84.0	106.0	108.1	114.4	89.2	68.2
87.5°	4.2	9.4	9.4	9.4	4.2	4.2	3.1	3.1	4.2	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°	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5
2.5°	2182.4	2169.8	2197.1	2191.8	2210.7	2207.6	2223.3	2231.7	2249.6	2272.7	2270.6
5°	2228.6	2227.5	2260.1	2275.8	2292.6	2308.4	2309.4	2325.2	2340.9	2375.5	2374.5
7.5°	2272.7	2282.1	2328.3	2329.4	2335.7	2347.2	2331.5	2336.7	2340.9	2353.5	2357.7
10°	2324.1	2342.0	2343.0	2338.8	2318.9	2317.8	2282.1	2286.3	2267.4	2282.1	2274.8
12.5°	2390.2	2375.5	2367.1	2338.8	2308.4	2267.4	2233.8	2187.6	2177.1	2177.1	2180.3
15°	2455.3	2433.3	2360.9	2315.7	2260.1	2195.0	2140.4	2087.9	2061.7	2050.1	2048.0
17.5°	2512.0	2465.8	2362.9	2304.2	2199.2	2103.7	2021.8	1937.8	1896.9	1870.6	1866.4
20°	2558.2	2508.9	2369.2	2266.4	2133.1	1992.4	1868.5	1762.5	1681.7	1621.8	1628.1
22.5°	2635.9	2557.2	2365.0	2221.2	2056.4	1873.8	1686.9	1541.0	1405.6	1372.0	1381.4
25°	2729.3	2626.4	2389.2	2193.9	1967.2	1724.7	1479.1	1310.1	1165.2	1119.0	1122.2
27.5°	2837.4	2710.4	2416.5	2148.8	1874.8	1541.0	1245.0	1036.1	920.6	829.3	821.9
30°	3009.6	2824.8	2445.9	2119.4	1745.7	1336.3	989.9	772.6	627.7	578.4	578.4
32.5°	3413.7	3056.8	2493.1	2049.1	1575.6	1107.5	722.2	506.0	377.9	333.8	334.9
35°	3927.1	3525.0	2600.2	1963.0	1375.2	839.8	446.1	281.3	221.5	199.4	197.3
37.5°	4417.3	3955.4	2829.0	1862.2	1122.2	532.2	250.9	173.2	151.2	150.1	151.2
40°	4719.6	4295.5	3058.9	1727.9	819.8	292.9	162.7	141.7	138.6	135.4	135.4
42.5°	4998.8	4529.6	3233.2	1522.1	489.2	177.4	142.8	129.1	127.0	121.8	121.8
45°	5225.6	4697.6	3246.8	1248.1	259.3	157.5	131.2	117.6	113.4	110.2	109.2
47.5°	5440.8	4861.3	3197.5	956.3	184.8	145.9	122.8	108.1	102.9	105.0	103.9
50°	5585.6	5025.1	3063.1	751.6	176.4	135.4	113.4	98.7	96.6	100.8	99.7
52.5°	5742.0	5159.4	2801.7	584.7	163.8	124.9	103.9	92.4	88.2	91.3	92.4
55°	5865.9	5157.3	2609.6	456.6	155.4	116.5	97.6	87.1	79.8	79.8	78.7
57.5°	5926.8	5108.0	2455.3	359.0	145.9	108.1	91.3	76.6	68.2	66.1	65.1
60°	5923.6	5059.7	2275.8	295.0	136.5	98.7	81.9	65.1	56.7	52.5	52.5
62.5°	5890.1	4946.3	1991.3	254.0	127.0	91.3	68.2	53.5	47.2	43.0	44.1
65°	5804.0	4728.0	1641.8	216.2	117.6	88.2	57.7	47.2	40.9	36.7	36.7
67.5°	5505.9	4361.6	1280.7	181.6	108.1	73.5	50.4	39.9	34.6	30.4	30.4
70°	5083.9	3803.2	842.9	153.3	96.6	64.0	45.1	34.6	29.4	25.2	24.1
72.5°	4333.3	3039.0	428.3	131.2	82.9	56.7	39.9	30.4	25.2	21.0	19.9
75°	3323.5	2047.0	266.6	105.0	65.1	50.4	35.7	27.3	21.0	15.7	14.7
77.5°	1981.9	824.0	189.0	73.5	44.1	39.9	29.4	22.0	16.8	11.5	11.5
80°	625.6	364.3	128.1	50.4	28.3	27.3	22.0	15.7	11.5	8.4	8.4
82.5°	353.8	230.9	86.1	33.6	19.9	17.8	12.6	9.4	7.3	6.3	6.3
85°	58.8	46.2	26.2	12.6	9.4	8.4	5.2	3.1	2.1	1.0	2.1
87.5°	3.1	3.1	4.2	4.2	4.2	3.1	2.1	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)