

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: P509502

Luminaire Tested: **VERD-G-CA2-110-730-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509502  
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-CA2-110-730-U-T3-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14921 lumens  
Efficiency: N/A  
Efficacy: 131.8 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

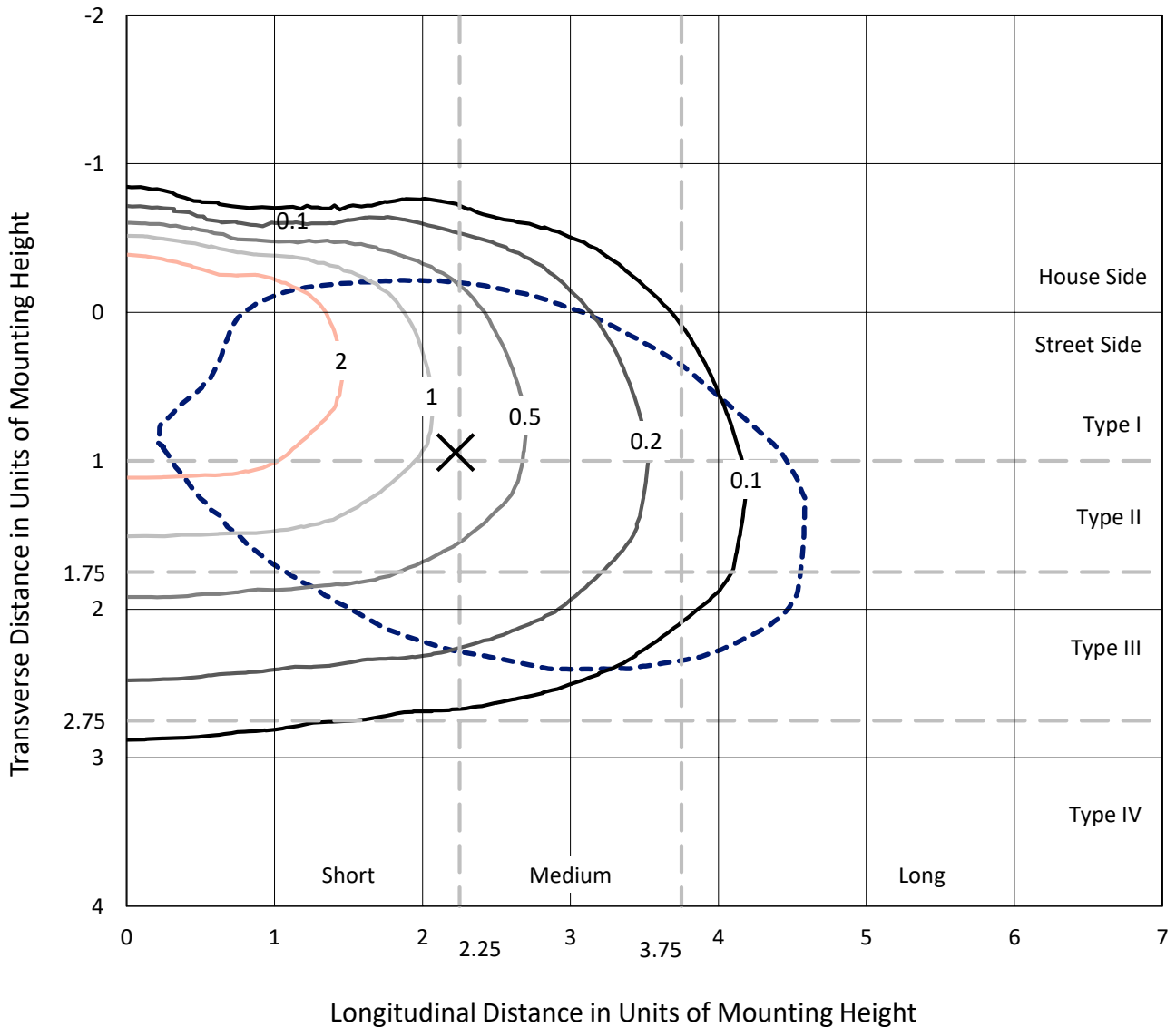
Input Watts (W): 113.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

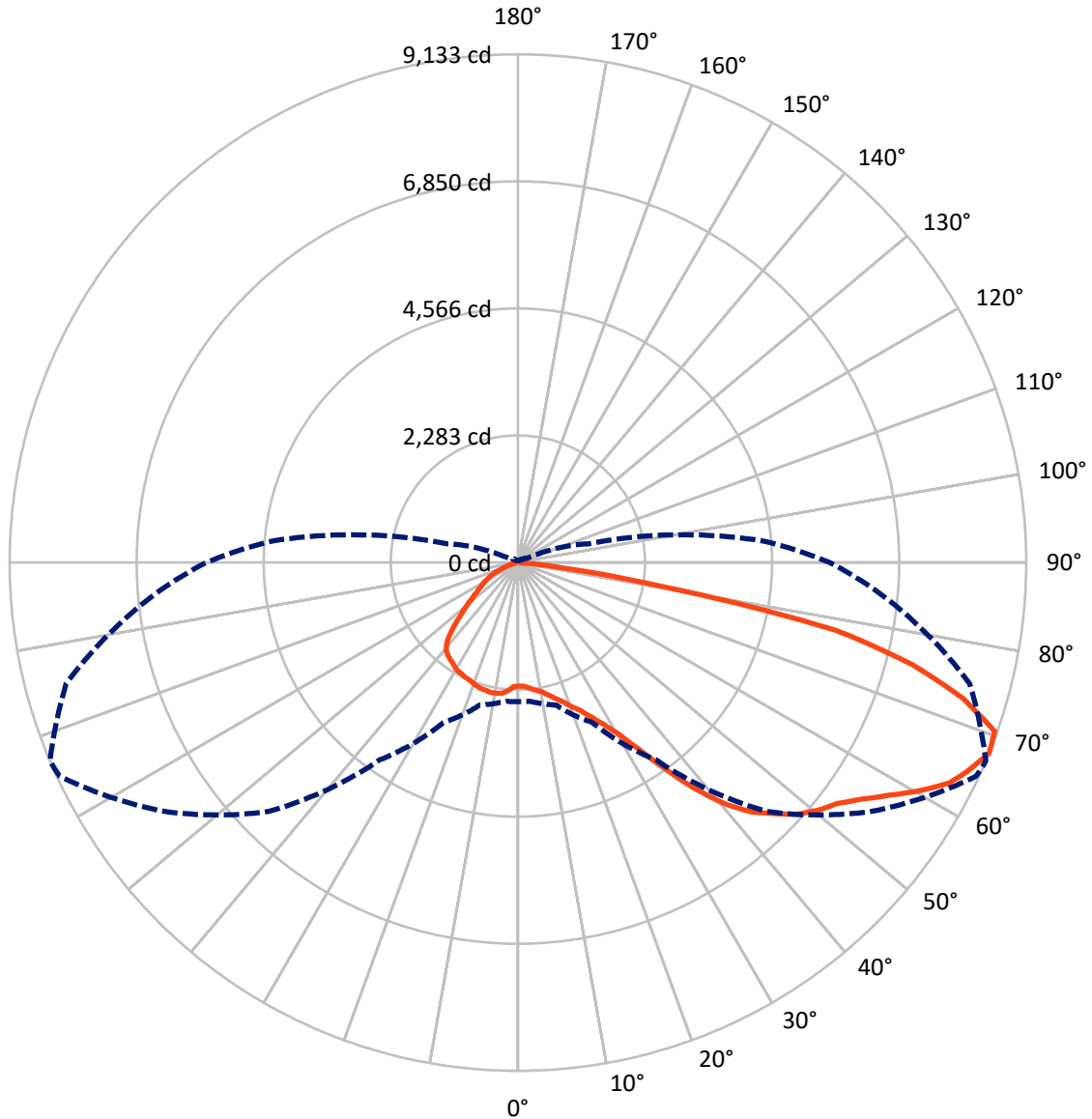
✕ Max cd  
 - - - 1/2 Max cd



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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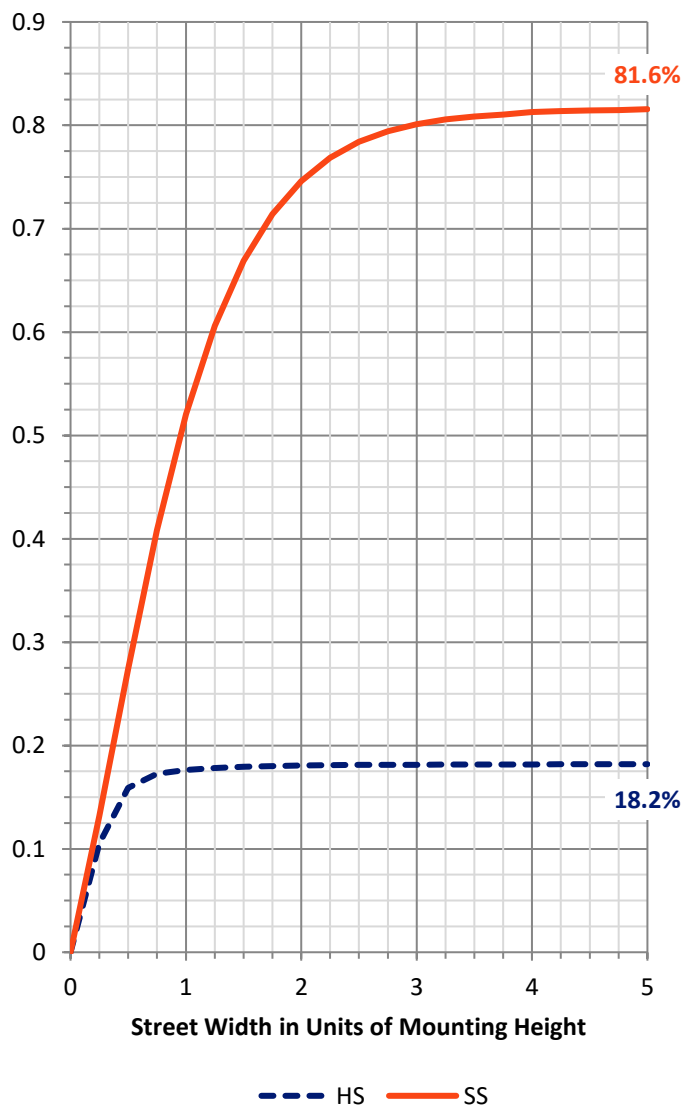
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2746.4	0.0	2746.4
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	12174.6	0.0	12174.6
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	14921.0	0.0	14921.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.4	1.5
10°-20°	698.4	4.7
20°-30°	1190.7	8.0
30°-40°	1816.2	12.2
40°-50°	2560.2	17.2
50°-60°	3094.6	20.7
60°-70°	3259.2	21.8
70°-80°	1938.8	13.0
80°-90°	139.4	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°	14921.0	100.0
0°-180°	14921.0	100.0

**Coefficient of Utilization**



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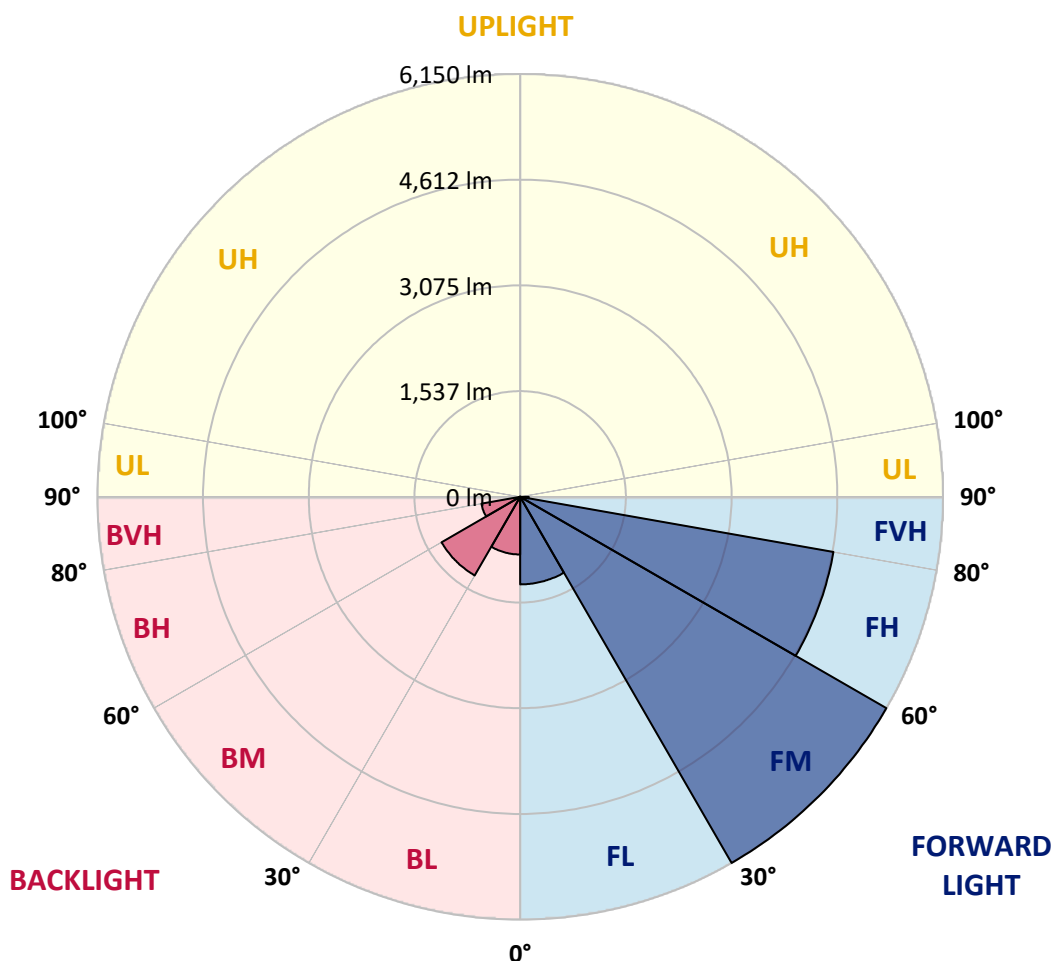
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1273.9	8.5			
FM (30°-60°)	6149.8	41.2			
FH (60°-80°)	4626.3	31.0			G2/5000
FVH (80°-90°)	124.7	0.8			G2/225
BL (0°-30°)	838.7	5.6	B2/1000		
BM (30°-60°)	1321.3	8.9	B2/2500		
BH (60°-80°)	571.7	3.8	B2/1000		G2/1000
BVH (80°-90°)	14.6	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°	2221.3	2221.3	2221.3	2221.3	2221.3	2221.3	2221.3	2221.3	2221.3	2221.3	2221.3
2.5°	2268.2	2276.8	2259.7	2255.4	2233.0	2236.2	2231.9	2221.3	2225.5	2217.0	2222.3
5°	2355.8	2333.3	2326.9	2314.1	2293.8	2282.1	2265.0	2259.7	2271.4	2261.8	2264.0
7.5°	2448.6	2452.9	2424.1	2399.5	2363.2	2354.7	2324.8	2306.7	2318.4	2305.6	2313.1
10°	2565.0	2571.4	2540.4	2507.3	2476.4	2431.5	2394.2	2365.4	2362.2	2355.8	2366.4
12.5°	2717.6	2716.5	2682.4	2641.8	2581.0	2550.0	2478.5	2437.9	2443.3	2419.8	2417.7
15°	2894.8	2879.9	2840.4	2798.7	2722.9	2662.1	2575.6	2525.5	2534.0	2507.3	2500.9
17.5°	3067.7	3052.8	3021.8	2975.9	2906.5	2812.6	2706.9	2634.4	2632.2	2619.4	2581.0
20°	3244.9	3251.3	3209.7	3168.1	3098.7	2972.7	2853.2	2759.2	2761.4	2739.0	2664.2
22.5°	3452.0	3440.2	3390.1	3370.9	3291.9	3154.2	3020.8	2912.9	2891.6	2887.3	2758.2
25°	3649.5	3642.0	3596.1	3573.7	3507.5	3381.5	3208.6	3079.5	3076.3	3062.4	2879.9
27.5°	3806.4	3814.9	3810.6	3794.6	3722.0	3598.2	3446.6	3291.9	3294.0	3273.7	3037.8
30°	4029.4	4003.8	3994.2	4007.0	4000.6	3867.2	3706.0	3593.9	3586.5	3534.2	3237.4
32.5°	4159.7	4172.5	4185.3	4230.1	4231.2	4131.9	4027.3	3973.9	4003.8	4012.4	3733.8
35°	4279.2	4279.2	4352.9	4466.0	4505.5	4471.4	4426.5	4493.8	4552.5	4671.0	4344.3
37.5°	4386.0	4416.9	4486.3	4628.3	4757.4	4790.5	4888.7	5073.4	5144.9	5252.7	4858.8
40°	4475.6	4498.0	4586.6	4760.6	4982.6	5134.2	5317.8	5611.3	5686.1	5665.8	5144.9
42.5°	4376.4	4412.6	4554.6	4912.2	5191.8	5476.8	5717.0	6034.0	6124.8	5936.9	5445.9
45°	4323.0	4336.9	4485.2	4890.8	5345.6	5823.8	6095.9	6435.4	6435.4	6225.1	5658.3
47.5°	4216.2	4240.8	4416.9	4863.1	5508.9	6113.0	6388.4	6734.2	6756.7	6497.3	5869.6
50°	4108.4	4139.4	4339.0	4814.0	5600.7	6403.4	6637.1	6984.0	6992.6	6684.1	6056.4
52.5°	4001.7	4017.7	4240.8	4782.0	5702.1	6552.8	6851.7	7186.8	7191.1	6963.7	6262.5
55°	3810.6	3850.1	4080.7	4664.6	5696.7	6621.1	6963.7	7457.9	7499.6	7267.9	6465.3
57.5°	3631.3	3643.0	3895.0	4494.8	5610.3	6700.1	7205.0	7846.5	7887.0	7544.4	6615.8
60°	3392.2	3405.0	3676.1	4293.1	5482.2	6779.1	7511.3	8300.1	8318.3	7834.7	6728.9
62.5°	3142.4	3186.2	3409.3	3983.5	5216.4	6793.0	7770.7	8718.5	8711.1	8086.6	6803.6
65°	2848.9	2864.9	3079.5	3621.7	4809.7	6687.3	7877.4	8921.4	8939.5	8263.8	6754.5
67.5°	2496.7	2503.1	2650.4	3171.3	4328.3	6323.3	7788.8	9086.8	9132.7	8402.6	6549.6
70°	1972.6	1982.2	2117.7	2613.0	3645.2	5766.1	7639.4	9106.0	9086.8	8277.7	6237.9
72.5°	1374.8	1360.9	1493.3	1832.7	2760.3	4742.5	6917.8	8331.1	8365.2	7658.6	5585.7
75°	658.6	662.9	925.4	1127.2	1549.9	3387.9	5757.6	7174.0	7317.0	6674.5	4550.3
77.5°	112.1	114.2	244.4	444.0	624.4	1421.8	3818.1	5713.8	5835.5	5238.8	3080.5
80°	89.7	89.7	119.5	239.1	330.9	589.2	1446.3	2532.9	2665.3	2372.8	1135.7
82.5°	60.8	64.0	85.4	139.8	117.4	230.6	525.2	801.6	823.0	746.1	466.5
85°	34.2	35.2	43.8	56.6	49.1	85.4	107.8	109.9	116.3	90.7	69.4
87.5°	4.3	9.6	9.6	9.6	4.3	4.3	3.2	3.2	4.3	3.2	3.2
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°	2221.3	2221.3	2221.3	2221.3	2221.3	2221.3	2221.3	2221.3	2221.3	2221.3	2221.3
2.5°	2219.1	2206.3	2234.1	2228.7	2248.0	2244.7	2260.8	2269.3	2287.4	2310.9	2308.8
5°	2266.1	2265.0	2298.1	2314.1	2331.2	2347.2	2348.3	2364.3	2380.3	2415.5	2414.5
7.5°	2310.9	2320.5	2367.5	2368.6	2375.0	2386.7	2370.7	2376.0	2380.3	2393.1	2397.4
10°	2363.2	2381.4	2382.4	2378.2	2357.9	2356.8	2320.5	2324.8	2305.6	2320.5	2313.1
12.5°	2430.5	2415.5	2407.0	2378.2	2347.2	2305.6	2271.4	2224.5	2213.8	2213.8	2217.0
15°	2496.7	2474.2	2400.6	2354.7	2298.1	2231.9	2176.4	2123.1	2096.4	2084.6	2082.5
17.5°	2554.3	2507.3	2402.7	2342.9	2236.2	2139.1	2055.8	1970.4	1928.8	1902.1	1897.8
20°	2601.3	2551.1	2409.1	2304.5	2169.0	2025.9	1900.0	1792.2	1710.0	1649.1	1655.5
22.5°	2680.2	2600.2	2404.9	2258.6	2091.0	1905.3	1715.3	1566.9	1429.3	1395.1	1404.7
25°	2775.2	2670.6	2429.4	2230.9	2000.3	1753.7	1504.0	1332.1	1184.8	1137.9	1141.1
27.5°	2885.2	2756.0	2457.2	2185.0	1906.4	1566.9	1265.9	1053.5	936.1	843.2	835.8
30°	3060.2	2872.4	2487.0	2155.1	1775.1	1358.8	1006.6	785.6	638.3	588.1	588.1
32.5°	3471.2	3108.3	2535.1	2083.6	1602.2	1126.1	734.4	514.5	384.3	339.4	340.5
35°	3993.2	3584.3	2644.0	1996.0	1398.3	853.9	453.6	286.1	225.2	202.8	200.7
37.5°	4491.6	4022.0	2876.7	1893.6	1141.1	541.2	255.1	176.1	153.7	152.6	153.7
40°	4799.0	4367.8	3110.4	1756.9	833.6	297.8	165.4	144.1	140.9	137.7	137.7
42.5°	5083.0	4605.8	3287.6	1547.7	497.4	180.4	145.2	131.3	129.2	123.8	123.8
45°	5313.5	4776.6	3301.5	1269.1	263.6	160.1	133.4	119.5	115.3	112.1	111.0
47.5°	5532.3	4943.1	3251.3	972.4	187.9	148.4	124.9	109.9	104.6	106.7	105.7
50°	5679.7	5109.7	3114.7	764.3	179.3	137.7	115.3	100.3	98.2	102.5	101.4
52.5°	5838.7	5246.3	2848.9	594.5	166.5	127.0	105.7	93.9	89.7	92.9	93.9
55°	5964.6	5244.2	2653.6	464.3	158.0	118.5	99.3	88.6	81.1	81.1	80.1
57.5°	6026.6	5194.0	2496.7	365.1	148.4	109.9	92.9	77.9	69.4	67.2	66.2
60°	6023.4	5144.9	2314.1	299.9	138.8	100.3	83.3	66.2	57.6	53.4	53.4
62.5°	5989.2	5029.6	2024.9	258.3	129.2	92.9	69.4	54.4	48.0	43.8	44.8
65°	5901.7	4807.6	1669.4	219.9	119.5	89.7	58.7	48.0	41.6	37.4	37.4
67.5°	5598.5	4435.1	1302.2	184.7	109.9	74.7	51.2	40.6	35.2	31.0	31.0
70°	5169.4	3867.2	857.1	155.8	98.2	65.1	45.9	35.2	29.9	25.6	24.6
72.5°	4406.2	3090.1	435.5	133.4	84.3	57.6	40.6	31.0	25.6	21.3	20.3
75°	3379.4	2081.4	271.1	106.7	66.2	51.2	36.3	27.8	21.3	16.0	14.9
77.5°	2015.3	837.9	192.1	74.7	44.8	40.6	29.9	22.4	17.1	11.7	11.7
80°	636.2	370.4	130.2	51.2	28.8	27.8	22.4	16.0	11.7	8.5	8.5
82.5°	359.7	234.8	87.5	34.2	20.3	18.1	12.8	9.6	7.5	6.4	6.4
85°	59.8	47.0	26.7	12.8	9.6	8.5	5.3	3.2	2.1	1.1	2.1
87.5°	3.2	3.2	4.3	4.3	4.3	3.2	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)