

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: P509142

Luminaire Tested: **VERD-CA2-110-760-U-T3-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509142  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-110-760-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1020mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15009 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

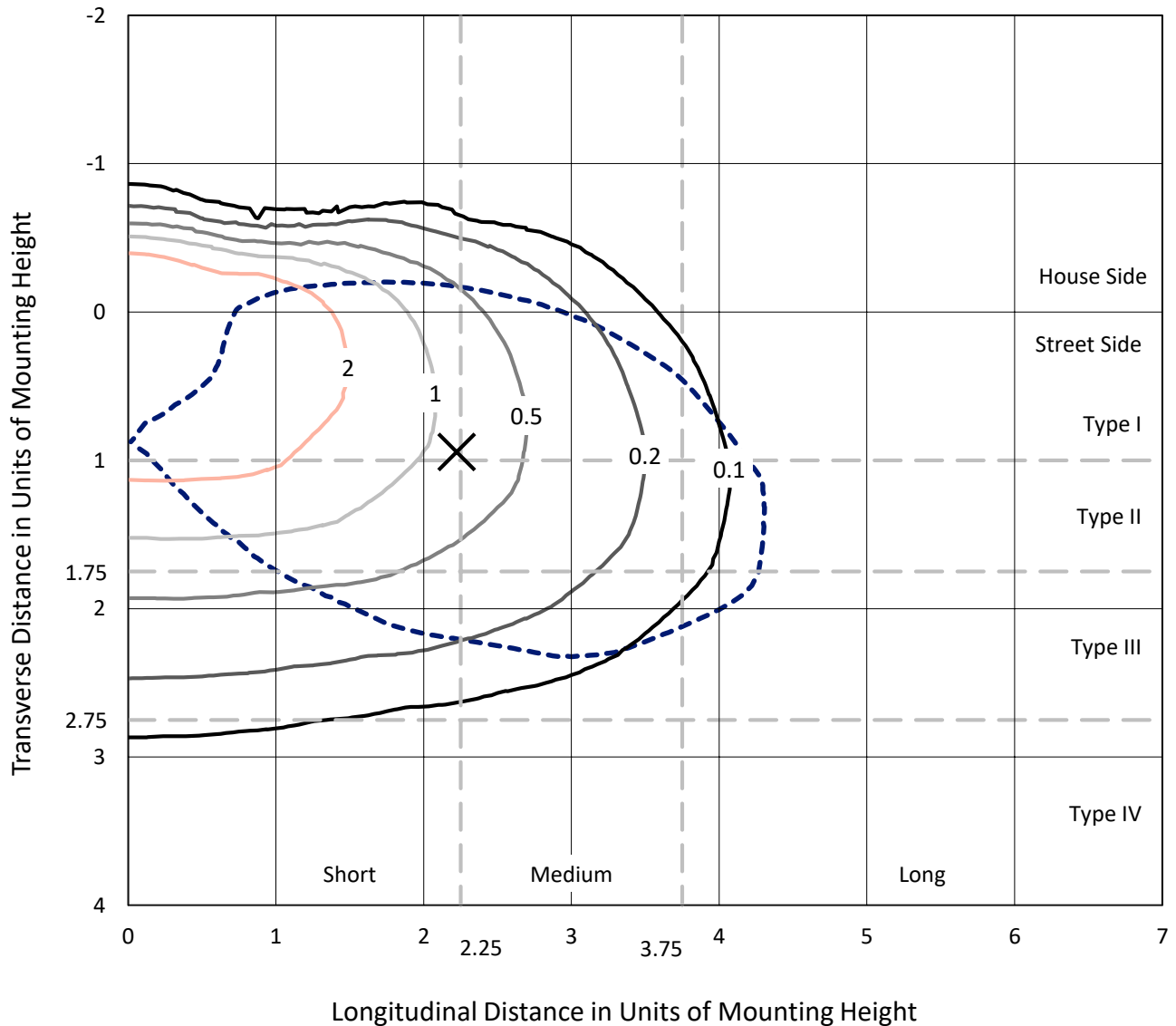
Input Watts (W): 113.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509142  
 CATALOG NUMBER: VERD-CA2-110-760-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

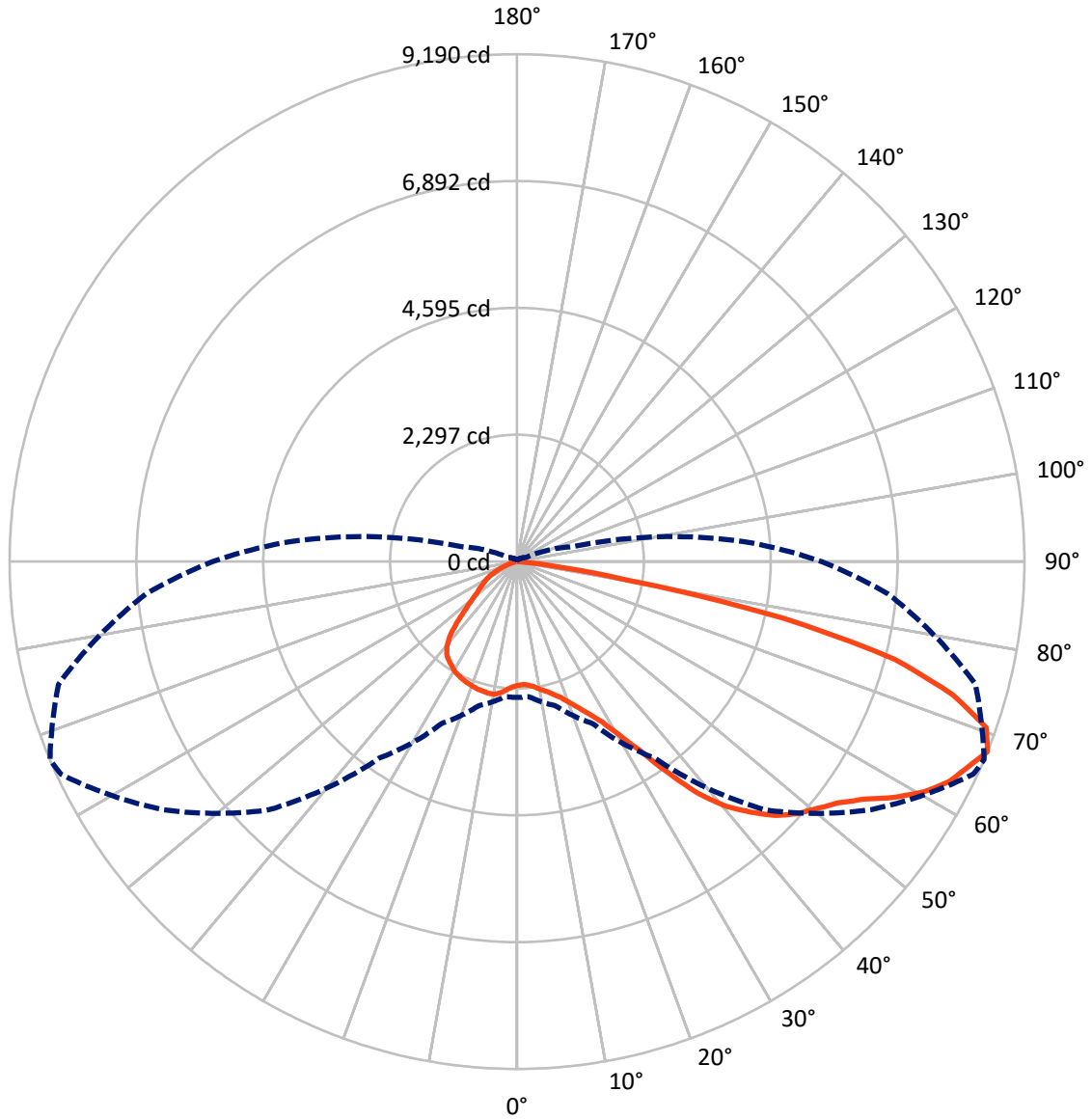
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P509142  
CATALOG NUMBER: VERD-CA2-110-760-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509142  
 CATALOG NUMBER: VERD-CA2-110-760-U-T3-HSS

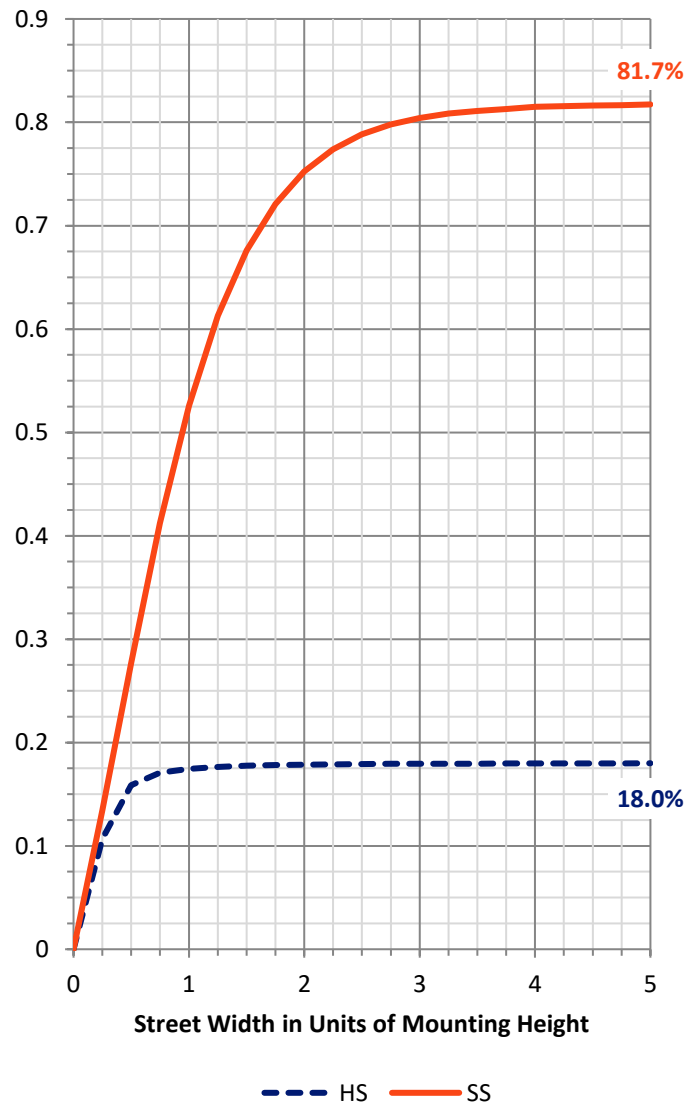
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2734.7	0.0	2734.7
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	12274.3	0.0	12274.3
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	15009.0	0.0	15009.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.5	1.5
10°-20°	703.2	4.7
20°-30°	1199.9	8.0
30°-40°	1867.6	12.4
40°-50°	2636.5	17.6
50°-60°	3175.4	21.2
60°-70°	3281.5	21.9
70°-80°	1807.7	12.0
80°-90°	112.7	0.8
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°	15009.0	100.0
0°-180°	15009.0	100.0



REPORT NUMBER: P509142

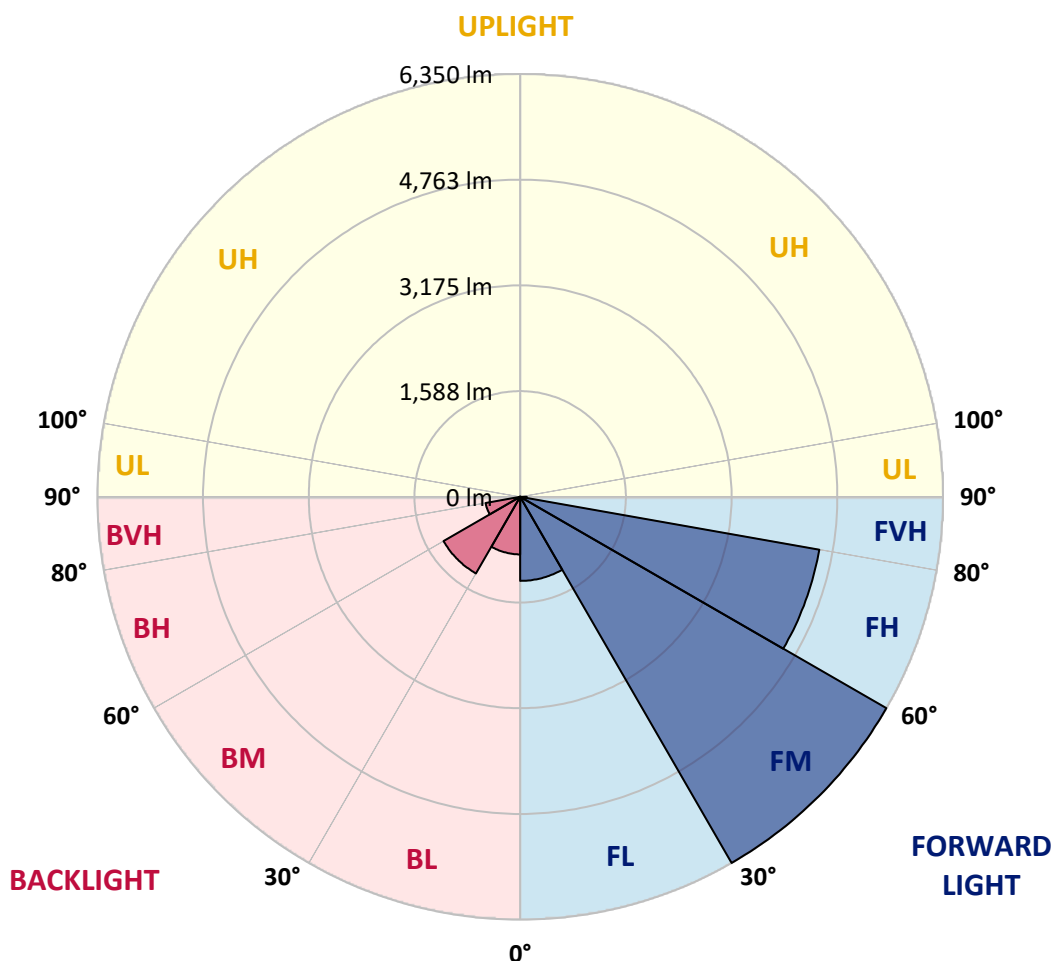
CATALOG NUMBER: VERD-CA2-110-760-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.9	8.4			
FM (30°-60°)	6350.1	42.3			
FH (60°-80°)	4562.2	30.4			G2/5000
FVH (80°-90°)	99.1	0.7			G1/100
BL (0°-30°)	864.7	5.8	B2/1000		
BM (30°-60°)	1329.4	8.9	B2/2500		
BH (60°-80°)	527.1	3.5	B2/1000		G2/1000
BVH (80°-90°)	13.6	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





REPORT NUMBER: P509142

CATALOG NUMBER: VERD-CA2-110-760-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2241.0	2241.0	2241.0	2241.0	2241.0	2241.0	2241.0	2241.0	2241.0	2241.0	2241.0
2.5°	2220.2	2242.8	2242.8	2235.8	2239.3	2223.6	2213.2	2225.4	2228.9	2239.3	2253.2
5°	2263.6	2289.7	2287.9	2275.8	2265.3	2251.4	2237.5	2248.0	2249.7	2253.2	2270.5
7.5°	2355.7	2380.0	2369.6	2357.4	2352.2	2320.9	2291.4	2289.7	2293.1	2303.6	2322.7
10°	2475.5	2494.6	2491.2	2472.1	2458.2	2411.3	2369.6	2353.9	2355.7	2359.1	2392.2
12.5°	2611.0	2637.1	2618.0	2591.9	2567.6	2499.9	2442.5	2419.9	2416.5	2425.2	2453.0
15°	2744.8	2772.6	2758.7	2743.1	2687.5	2612.8	2539.8	2503.3	2499.9	2499.9	2517.2
17.5°	2920.3	2930.7	2922.0	2899.4	2836.9	2743.1	2656.2	2602.4	2593.7	2598.9	2602.4
20°	3114.8	3133.9	3123.5	3099.2	3008.9	2908.1	2798.7	2734.4	2729.2	2734.4	2701.4
22.5°	3351.1	3358.0	3352.8	3312.9	3231.2	3097.5	2953.3	2880.3	2880.3	2885.5	2817.8
25°	3552.6	3594.3	3582.1	3533.5	3438.0	3321.6	3147.8	3057.5	3062.7	3066.2	2972.4
27.5°	3787.1	3821.9	3813.2	3776.7	3714.2	3566.5	3358.0	3299.0	3293.8	3288.6	3142.6
30°	4011.2	4037.3	4054.7	4046.0	3995.6	3856.6	3670.7	3627.3	3641.2	3630.8	3378.9
32.5°	4193.6	4238.8	4287.5	4297.9	4284.0	4160.6	4025.1	4047.7	4065.1	4188.4	4037.3
35°	4350.0	4398.6	4478.6	4561.9	4577.6	4528.9	4461.2	4626.2	4676.6	4928.5	4768.7
37.5°	4513.3	4555.0	4634.9	4766.9	4853.8	4879.9	4945.9	5206.4	5328.1	5545.2	5248.1
40°	4588.0	4629.7	4768.7	4935.4	5116.1	5262.0	5394.1	5696.3	5831.8	5897.9	5512.2
42.5°	4513.3	4553.3	4777.4	5091.8	5336.7	5659.9	5809.3	6111.5	6201.9	6194.9	5837.1
45°	4440.3	4478.6	4713.1	5131.7	5536.5	6026.4	6153.2	6492.0	6558.0	6474.6	6024.7
47.5°	4346.5	4398.6	4641.9	5107.4	5715.5	6358.2	6474.6	6763.0	6822.1	6698.7	6240.1
50°	4231.9	4277.0	4560.2	5069.2	5833.6	6606.6	6730.0	7016.6	7032.3	6917.6	6434.7
52.5°	4099.8	4124.2	4431.6	4992.8	5936.1	6789.1	6929.8	7230.3	7266.8	7235.5	6665.7
55°	3903.5	3947.0	4277.0	4872.9	5943.0	6884.6	7084.4	7532.6	7598.6	7525.6	6806.4
57.5°	3696.8	3743.7	4085.9	4706.1	5840.5	6945.4	7365.8	7925.2	8055.5	7821.0	6921.1
60°	3469.2	3510.9	3847.9	4459.4	5658.1	7032.3	7655.9	8385.6	8467.2	8072.9	6997.5
62.5°	3205.2	3238.2	3559.6	4160.6	5378.4	7009.7	7906.1	8755.6	8781.6	8298.7	6990.6
65°	2883.8	2882.0	3180.9	3743.7	4919.8	6829.0	7951.3	8941.5	8972.7	8444.6	6928.0
67.5°	2459.9	2454.7	2704.9	3234.7	4341.3	6358.2	7831.4	9115.2	9189.9	8597.5	6745.6
70°	1928.3	1935.3	2124.6	2597.1	3523.1	5640.8	7515.2	8998.8	9014.4	8303.9	6273.1
72.5°	1363.7	1360.2	1488.8	1808.4	2604.1	4403.9	6604.9	8204.9	8253.5	7577.8	5465.3
75°	625.4	651.5	972.8	1104.9	1572.2	2998.4	5434.0	6971.5	7065.3	6523.3	4261.4
77.5°	116.4	119.9	208.5	420.4	615.0	1082.3	3246.9	4721.8	4918.1	4445.5	2400.8
80°	92.1	93.8	123.3	201.5	257.1	486.4	1068.4	1945.7	1989.1	1733.7	865.1
82.5°	67.8	69.5	92.1	130.3	119.9	210.2	444.7	566.3	601.1	559.4	344.0
85°	40.0	41.7	53.9	64.3	62.5	83.4	74.7	67.8	60.8	50.4	43.4
87.5°	10.4	13.9	22.6	22.6	17.4	15.6	13.9	12.2	13.9	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509142  
 CATALOG NUMBER: VERD-CA2-110-760-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2241.0	2241.0	2241.0	2241.0	2241.0	2241.0	2241.0	2241.0	2241.0	2241.0	2241.0
2.5°	2256.6	2254.9	2260.1	2274.0	2286.2	2287.9	2305.3	2327.9	2317.5	2347.0	2336.6
5°	2281.0	2286.2	2305.3	2327.9	2348.7	2366.1	2392.2	2430.4	2418.2	2446.0	2435.6
7.5°	2336.6	2345.2	2374.8	2397.4	2421.7	2416.5	2439.1	2461.6	2433.8	2463.4	2449.5
10°	2402.6	2413.0	2430.4	2439.1	2432.1	2428.6	2423.4	2419.9	2383.5	2404.3	2395.6
12.5°	2461.6	2463.4	2458.2	2435.6	2419.9	2378.3	2359.1	2350.5	2294.9	2310.5	2300.1
15°	2519.0	2494.6	2468.6	2416.5	2373.0	2308.8	2267.1	2230.6	2178.5	2199.3	2178.5
17.5°	2581.5	2545.0	2477.3	2400.8	2312.2	2218.4	2150.7	2091.6	2013.4	2010.0	2003.0
20°	2661.4	2607.6	2498.1	2373.0	2246.2	2105.5	1997.8	1898.8	1780.7	1765.0	1733.7
22.5°	2762.2	2682.3	2529.4	2336.6	2164.6	1987.4	1805.0	1641.7	1492.3	1445.4	1428.0
25°	2878.6	2779.6	2546.8	2303.6	2086.4	1815.4	1567.0	1355.0	1179.6	1129.2	1115.3
27.5°	3024.5	2902.9	2572.8	2254.9	1961.3	1605.2	1282.1	1047.5	891.2	809.5	797.4
30°	3226.0	3040.1	2609.3	2206.3	1810.2	1358.5	993.7	720.9	573.3	524.6	516.0
32.5°	3775.0	3366.7	2649.3	2119.4	1610.4	1084.0	660.1	460.4	361.3	321.4	317.9
35°	4471.6	3964.3	2795.2	2020.4	1368.9	752.2	410.0	274.5	220.6	205.0	205.0
37.5°	4921.5	4428.2	3038.4	1881.4	1051.0	460.4	246.7	178.9	168.5	166.8	166.8
40°	5157.8	4633.2	3213.9	1690.3	703.6	267.5	173.7	154.6	151.1	147.7	147.7
42.5°	5458.3	4808.6	3365.0	1431.5	408.2	187.6	152.9	140.7	135.5	132.0	132.0
45°	5625.1	4999.7	3269.4	1124.0	232.8	168.5	140.7	126.8	121.6	121.6	121.6
47.5°	5788.4	5182.1	3147.8	807.8	198.0	154.6	132.0	118.1	112.9	116.4	116.4
50°	5974.3	5305.5	2955.0	604.6	187.6	144.2	119.9	107.7	104.2	109.4	109.4
52.5°	6148.0	5317.6	2645.8	482.9	173.7	133.8	111.2	99.0	95.5	99.0	99.0
55°	6198.4	5279.4	2557.2	383.9	165.0	123.3	104.2	92.1	83.4	83.4	81.6
57.5°	6186.2	5204.7	2341.8	324.9	154.6	112.9	95.5	81.6	71.2	67.8	67.8
60°	6144.5	5100.5	2114.2	283.2	144.2	104.2	85.1	69.5	59.1	55.6	55.6
62.5°	6092.4	4904.2	1792.8	246.7	133.8	100.8	71.2	57.3	50.4	46.9	46.9
65°	5873.5	4598.4	1434.9	210.2	123.3	88.6	62.5	50.4	43.4	40.0	40.0
67.5°	5510.5	4132.8	1037.1	178.9	114.7	74.7	55.6	43.4	36.5	34.7	33.0
70°	4968.5	3490.1	642.8	154.6	99.0	67.8	48.6	38.2	33.0	27.8	27.8
72.5°	4141.5	2732.6	337.0	121.6	78.2	57.3	43.4	34.7	27.8	24.3	22.6
75°	2911.6	1685.1	243.2	93.8	53.9	46.9	36.5	29.5	24.3	20.8	19.1
77.5°	1405.4	580.2	170.2	69.5	38.2	34.7	27.8	24.3	19.1	17.4	17.4
80°	514.2	330.1	121.6	50.4	31.3	27.8	20.8	19.1	15.6	13.9	13.9
82.5°	231.1	156.3	69.5	33.0	22.6	20.8	15.6	12.2	12.2	12.2	12.2
85°	38.2	33.0	22.6	15.6	12.2	10.4	10.4	8.7	8.7	8.7	8.7
87.5°	10.4	10.4	8.7	8.7	6.9	5.2	3.5	3.5	3.5	5.2	5.2
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)