

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: P509172

Luminaire Tested: **VERD-CA2-120-740-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-120-740-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15600 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

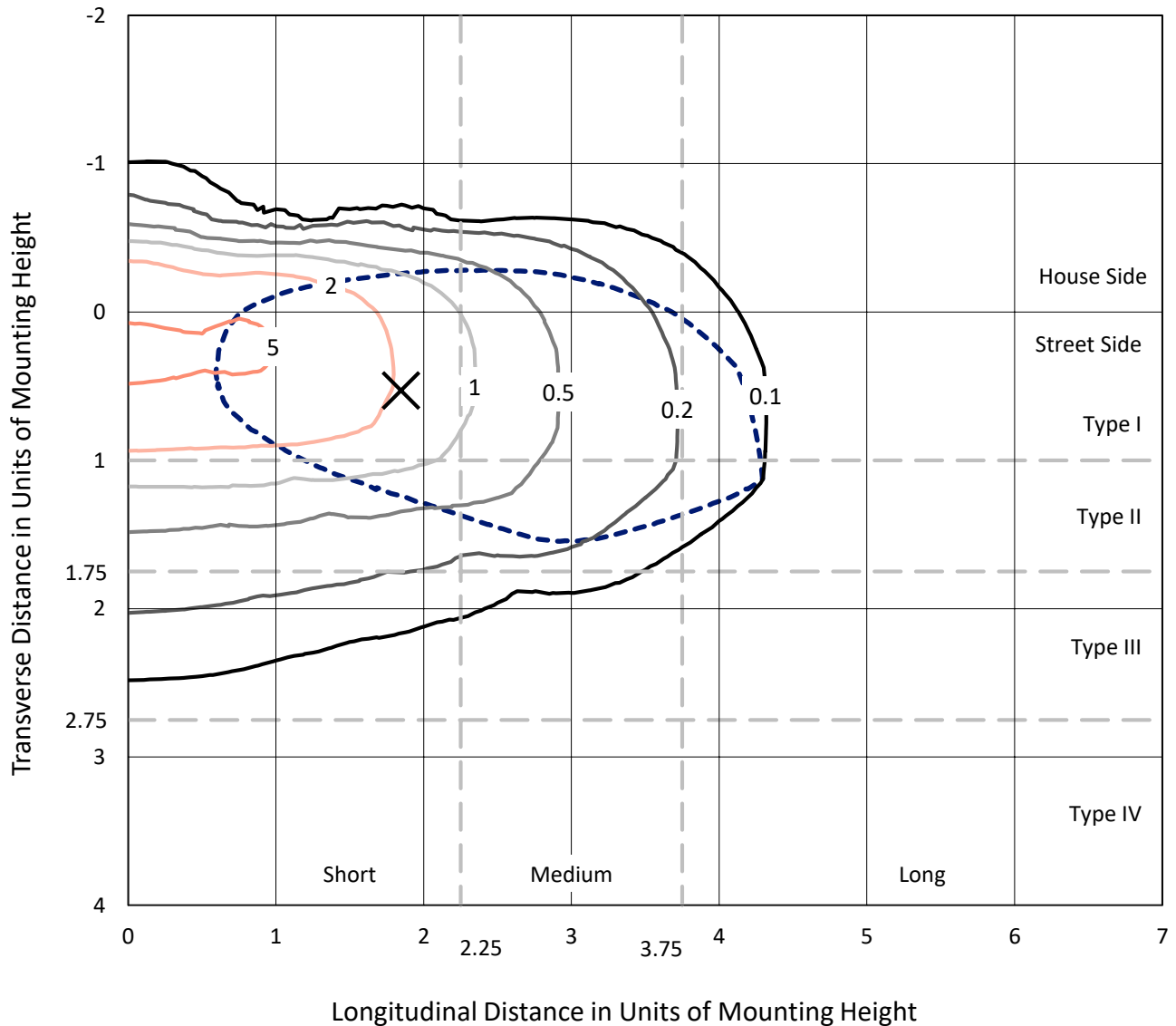
Input Watts (W): 122.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

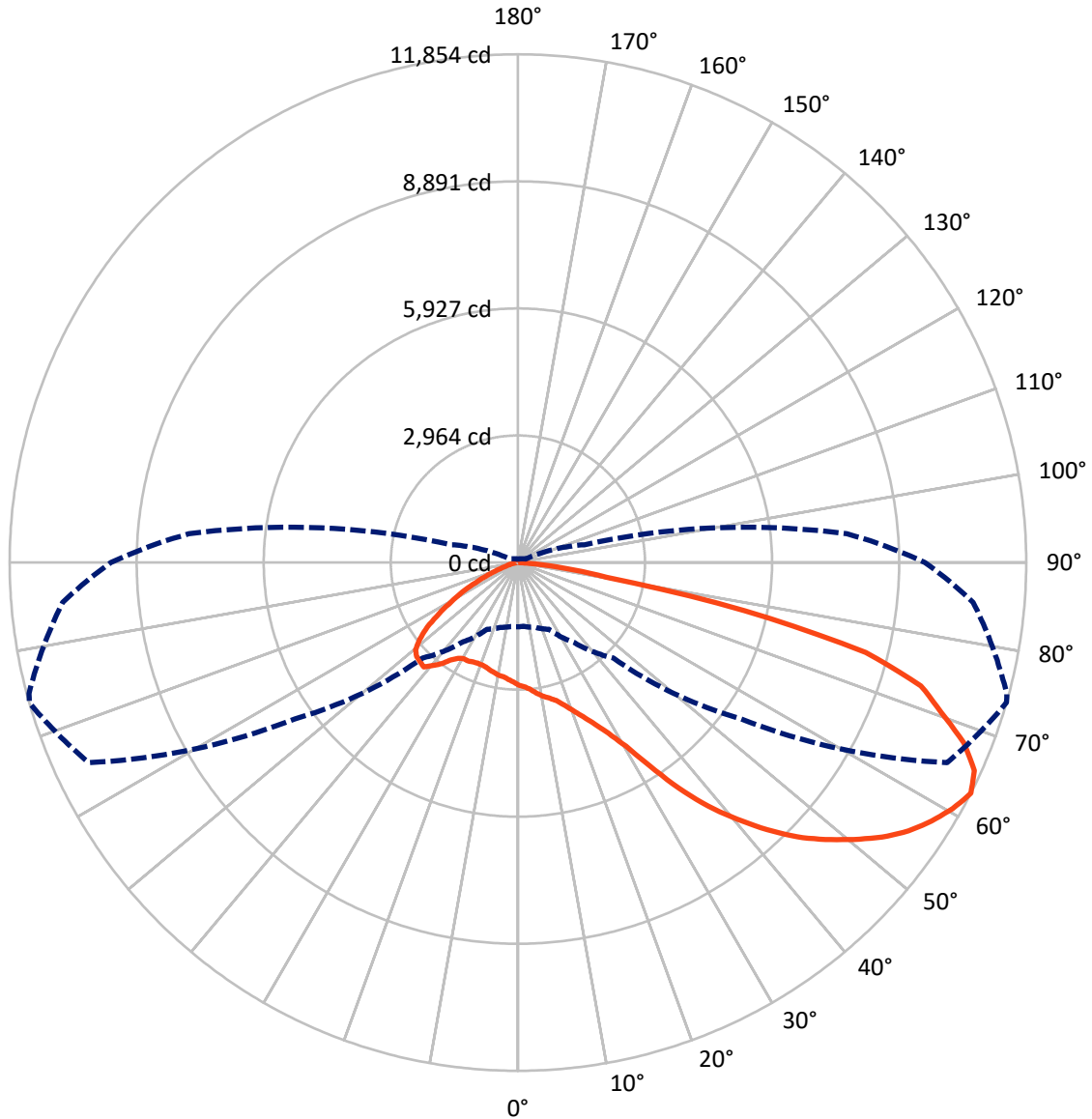
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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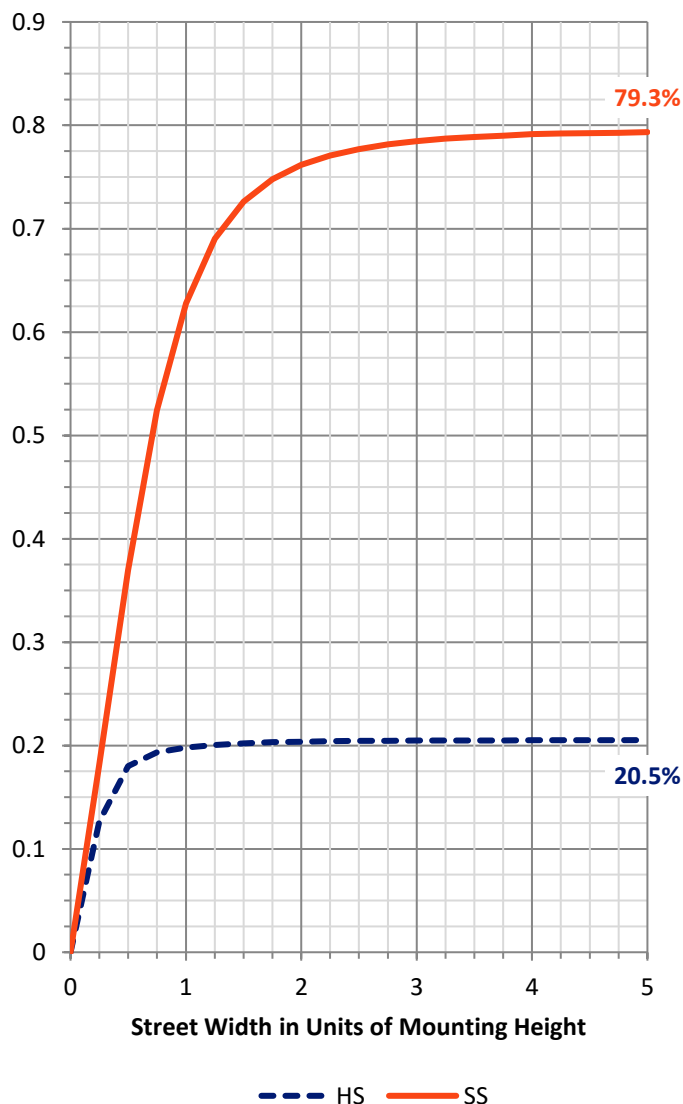
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3239.4	0.0	3239.4
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	12360.6	0.0	12360.6
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	15600.0	0.0	15600.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.6	1.7
10°-20°	823.3	5.3
20°-30°	1390.1	8.9
30°-40°	2067.6	13.3
40°-50°	2798.4	17.9
50°-60°	3219.5	20.6
60°-70°	3107.7	19.9
70°-80°	1759.5	11.3
80°-90°	161.4	1.0
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°	15600.0	100.0
0°-180°	15600.0	100.0



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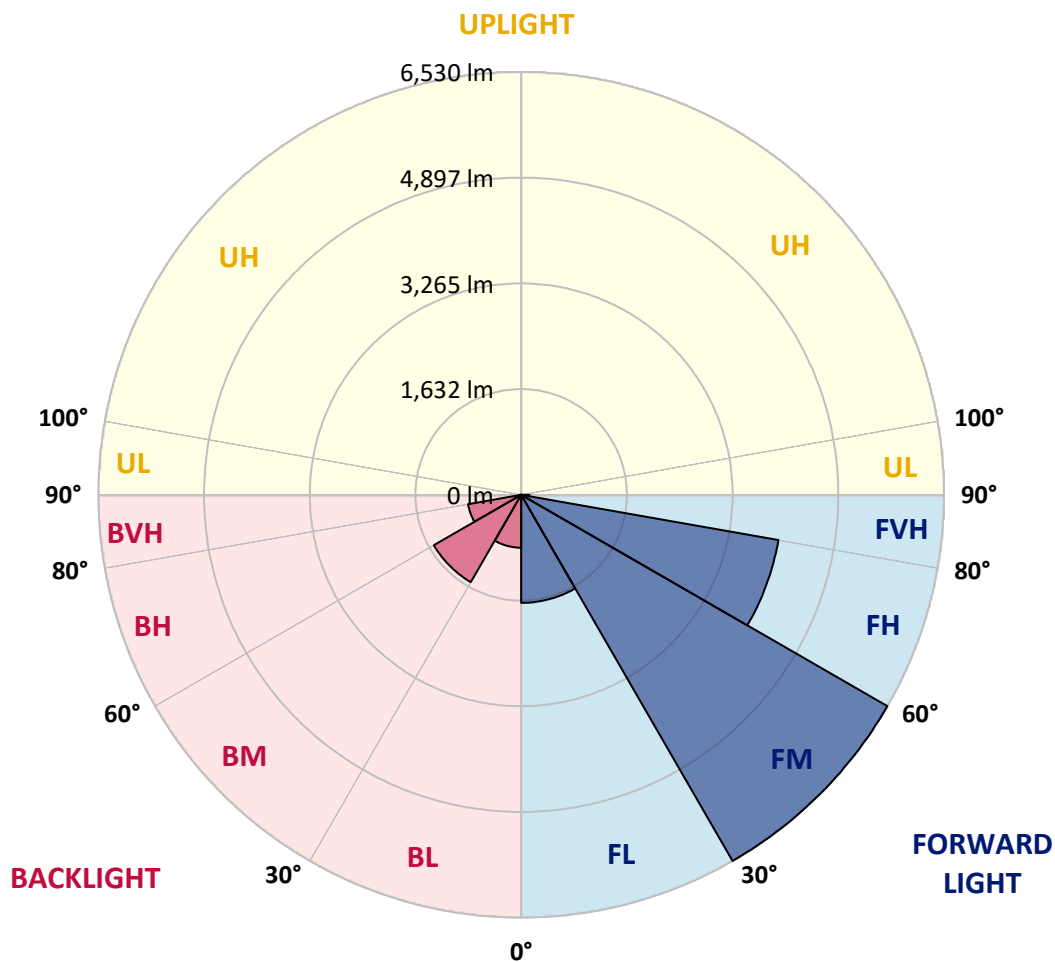
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1669.2	10.7			
FM	(30°-60°)	6529.9	41.9			
FH	(60°-80°)	4034.3	25.9			G2/5000
FVH	(80°-90°)	127.2	0.8			G2/225
BL	(0°-30°)	816.8	5.2	B2/1000		
BM	(30°-60°)	1555.6	10.0	B2/2500		
BH	(60°-80°)	832.8	5.3	B2/1000		G2/1000
BVH	(80°-90°)	34.2	0.2			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4
2.5°	3117.8	3097.4	3080.6	3071.3	3045.3	3023.0	2978.4	2931.9	2900.3	2898.4	2868.7
5°	3248.0	3246.1	3208.9	3201.5	3166.2	3155.0	3110.4	3043.5	2965.4	2956.1	2876.1
7.5°	3419.0	3398.6	3357.7	3340.9	3300.0	3270.3	3210.8	3147.6	3069.5	3060.2	2920.8
10°	3584.5	3573.3	3549.2	3551.0	3493.4	3437.6	3348.4	3240.5	3166.2	3155.0	2984.0
12.5°	3776.0	3740.6	3699.7	3677.4	3619.8	3584.5	3499.0	3357.7	3240.5	3229.4	3058.3
15°	3908.0	3889.4	3852.2	3837.3	3781.6	3723.9	3625.4	3515.7	3339.1	3327.9	3134.6
17.5°	4049.3	4040.0	3997.2	3987.9	3934.0	3865.2	3789.0	3645.8	3491.5	3472.9	3225.7
20°	4144.1	4127.4	4121.8	4119.9	4105.0	4062.3	3965.6	3854.1	3683.0	3649.5	3342.8
22.5°	4270.5	4253.8	4261.2	4268.7	4289.1	4270.5	4207.3	4075.3	3906.1	3876.4	3526.8
25°	4283.5	4272.4	4322.6	4426.7	4467.6	4488.0	4439.7	4337.4	4173.8	4134.8	3746.2
27.5°	4318.9	4302.1	4356.0	4465.7	4649.8	4681.4	4690.7	4642.3	4504.8	4482.5	4043.7
30°	4255.6	4244.5	4328.1	4515.9	4722.3	4900.8	4969.6	5036.5	4973.3	4934.2	4458.3
32.5°	4101.3	4108.8	4218.5	4467.6	4848.7	5123.9	5302.4	5538.5	5651.9	5644.4	5192.7
35°	3876.4	3872.6	4056.7	4408.1	4859.9	5334.0	5666.7	6146.4	6464.3	6442.0	5964.2
37.5°	3684.9	3675.6	3883.8	4257.5	4869.2	5501.3	6094.4	6810.1	7213.6	7191.3	6594.5
40°	3450.6	3465.5	3651.4	4082.7	4791.1	5625.8	6466.2	7455.3	7868.0	7868.0	7247.0
42.5°	3214.5	3227.5	3411.6	3839.2	4677.7	5716.9	6815.7	8098.5	8518.7	8528.0	7695.1
45°	3008.1	3013.7	3181.0	3565.9	4473.2	5731.8	7137.4	8743.7	9128.5	9104.4	8206.4
47.5°	2645.6	2707.0	2969.1	3320.5	4194.3	5666.7	7408.8	9318.2	9652.8	9602.6	8693.5
50°	2108.3	2108.3	2470.8	3086.2	3874.5	5493.8	7622.6	9842.4	10151.1	10104.6	9119.2
52.5°	1937.3	1941.0	2052.5	2757.1	3551.0	5196.4	7745.3	10363.0	10640.0	10608.4	9522.7
55°	1846.2	1851.7	1903.8	2234.7	3257.3	4740.9	7749.0	10766.4	11054.6	10984.0	9862.9
57.5°	1708.6	1699.3	1809.0	1991.2	2913.3	4153.4	7566.8	11078.8	11376.3	11322.3	10141.8
60°	1611.9	1597.0	1671.4	1835.0	2543.3	3545.4	7081.6	11305.6	11651.4	11683.0	10415.1
62.5°	1498.5	1492.9	1563.6	1717.9	2270.0	3147.6	6352.8	11041.6	11854.1	11803.9	10656.8
65°	1385.1	1373.9	1440.9	1561.7	2006.0	2822.2	5618.4	10651.2	11697.9	11742.5	10705.1
67.5°	1236.3	1234.5	1297.7	1386.9	1717.9	2457.8	4555.0	10138.1	11214.5	11182.9	10266.3
70°	1056.0	1056.0	1119.2	1197.3	1435.3	2097.1	3497.1	9258.7	10470.8	10654.9	9515.2
72.5°	853.4	857.1	920.3	1009.5	1184.3	1708.6	2578.7	8052.1	9825.7	9530.1	8455.5
75°	455.5	409.0	721.4	812.5	955.6	1362.8	1764.4	5235.4	8379.3	8174.8	7014.6
77.5°	109.7	115.3	226.8	422.0	509.4	754.8	868.2	2424.4	5402.7	5728.1	5003.0
80°	72.5	79.9	122.7	299.3	340.2	401.6	343.9	1056.0	2095.3	2232.9	2904.0
82.5°	37.2	40.9	76.2	119.0	120.8	104.1	130.1	531.7	1108.1	1201.0	1396.2
85°	13.0	20.5	39.0	52.1	48.3	39.0	31.6	132.0	262.1	291.9	303.0
87.5°	0.0	0.0	5.6	5.6	3.7	3.7	5.6	5.6	7.4	5.6	5.6
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°	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4
2.5°	2844.5	2824.1	2792.5	2759.0	2723.7	2693.9	2677.2	2686.5	2697.7	2662.3	2649.3
5°	2839.0	2803.6	2744.1	2673.5	2619.6	2565.7	2502.4	2487.6	2472.7	2454.1	2433.7
7.5°	2865.0	2812.9	2692.1	2627.0	2513.6	2413.2	2357.4	2316.5	2279.3	2245.9	2225.4
10°	2913.3	2816.6	2680.9	2548.9	2424.4	2301.7	2180.8	2156.6	2149.2	2100.9	2065.5
12.5°	2944.9	2825.9	2641.9	2482.0	2303.5	2171.5	2050.7	1981.9	1976.3	1954.0	1929.8
15°	2995.1	2863.1	2615.9	2398.3	2180.8	2041.4	1929.8	1840.6	1796.0	1794.1	1775.5
17.5°	3086.2	2905.9	2574.9	2312.8	2082.3	1926.1	1766.2	1732.7	1658.4	1615.6	1604.5
20°	3179.2	2969.1	2563.8	2227.3	1954.0	1760.6	1637.9	1545.0	1485.5	1440.9	1413.0
22.5°	3300.0	3060.2	2567.5	2177.1	1849.9	1636.1	1476.2	1338.6	1228.9	1175.0	1149.0
25°	3474.8	3166.2	2595.4	2100.9	1727.2	1502.2	1269.8	1087.6	933.3	894.3	875.7
27.5°	3697.9	3314.9	2634.4	2022.8	1613.8	1321.9	1020.7	816.2	687.9	658.1	639.6
30°	4040.0	3538.0	2640.0	1974.4	1511.5	1087.6	764.1	604.2	503.8	472.2	475.9
32.5°	4683.2	4015.8	2714.4	1874.0	1329.3	834.8	561.5	440.6	364.4	353.2	371.8
35°	5430.6	4579.1	2857.5	1822.0	1121.1	604.2	401.6	323.5	275.2	290.0	297.5
37.5°	5912.2	5075.5	3086.2	1703.0	877.5	444.3	280.7	252.8	243.6	252.8	269.6
40°	6473.6	5479.0	3281.4	1582.2	622.8	304.9	225.0	230.5	219.4	217.5	225.0
42.5°	6929.1	5893.6	3489.7	1383.2	433.2	226.8	206.4	210.1	202.6	193.4	193.4
45°	7362.3	6252.4	3487.8	1115.5	286.3	200.8	189.6	197.1	195.2	182.2	180.3
47.5°	7741.6	6614.9	3489.7	810.6	217.5	184.1	176.6	184.1	184.1	172.9	171.0
50°	8212.0	6916.1	3433.9	518.7	198.9	171.0	169.2	167.3	174.8	159.9	156.2
52.5°	8500.1	7135.5	3182.9	349.5	184.1	161.7	158.0	154.3	158.0	145.0	145.0
55°	8816.2	7408.8	2855.7	277.0	174.8	150.6	148.7	145.0	145.0	130.1	132.0
57.5°	9160.1	7631.9	2415.1	243.6	167.3	143.2	139.4	133.9	126.4	115.3	113.4
60°	9409.3	7678.4	1976.3	221.2	161.7	139.4	124.6	117.1	104.1	96.7	94.8
62.5°	9492.9	7702.5	1602.6	198.9	152.5	128.3	111.6	98.5	83.7	78.1	78.1
65°	9424.1	7423.7	1201.0	180.3	141.3	119.0	98.5	79.9	65.1	59.5	57.6
67.5°	8981.6	6910.5	873.8	161.7	124.6	107.8	85.5	65.1	52.1	46.5	46.5
70°	8176.6	6306.3	591.2	135.7	107.8	94.8	79.9	52.1	42.8	37.2	35.3
72.5°	7299.1	5347.0	377.4	109.7	83.7	74.4	57.6	44.6	35.3	27.9	27.9
75°	5772.7	4199.9	262.1	79.9	59.5	55.8	44.6	37.2	29.7	22.3	22.3
77.5°	4017.7	2729.3	206.4	61.4	40.9	37.2	33.5	27.9	24.2	18.6	16.7
80°	2329.5	1641.6	124.6	40.9	27.9	24.2	22.3	22.3	18.6	13.0	13.0
82.5°	1156.4	684.2	53.9	26.0	18.6	16.7	14.9	13.0	13.0	9.3	9.3
85°	226.8	117.1	20.5	13.0	9.3	9.3	7.4	7.4	5.6	3.7	3.7
87.5°	7.4	5.6	5.6	5.6	3.7	3.7	1.9	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)