

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: P509116

Luminaire Tested: **VERD-CA2-110-730-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509116  
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-CA2-110-730-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

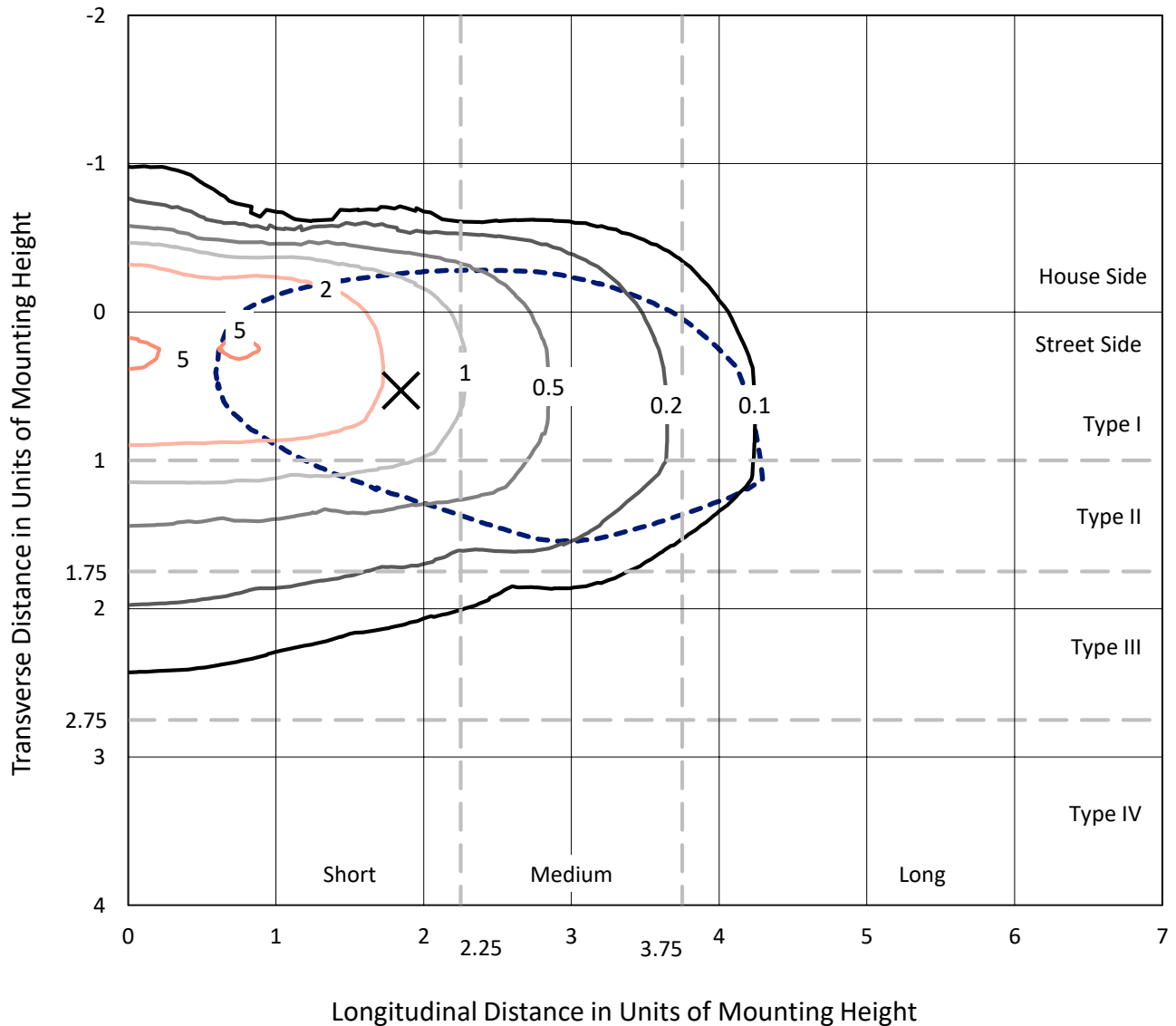
Lumens per Lamp: N/A  
Luminaire Lumens: 14359 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 113.6  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

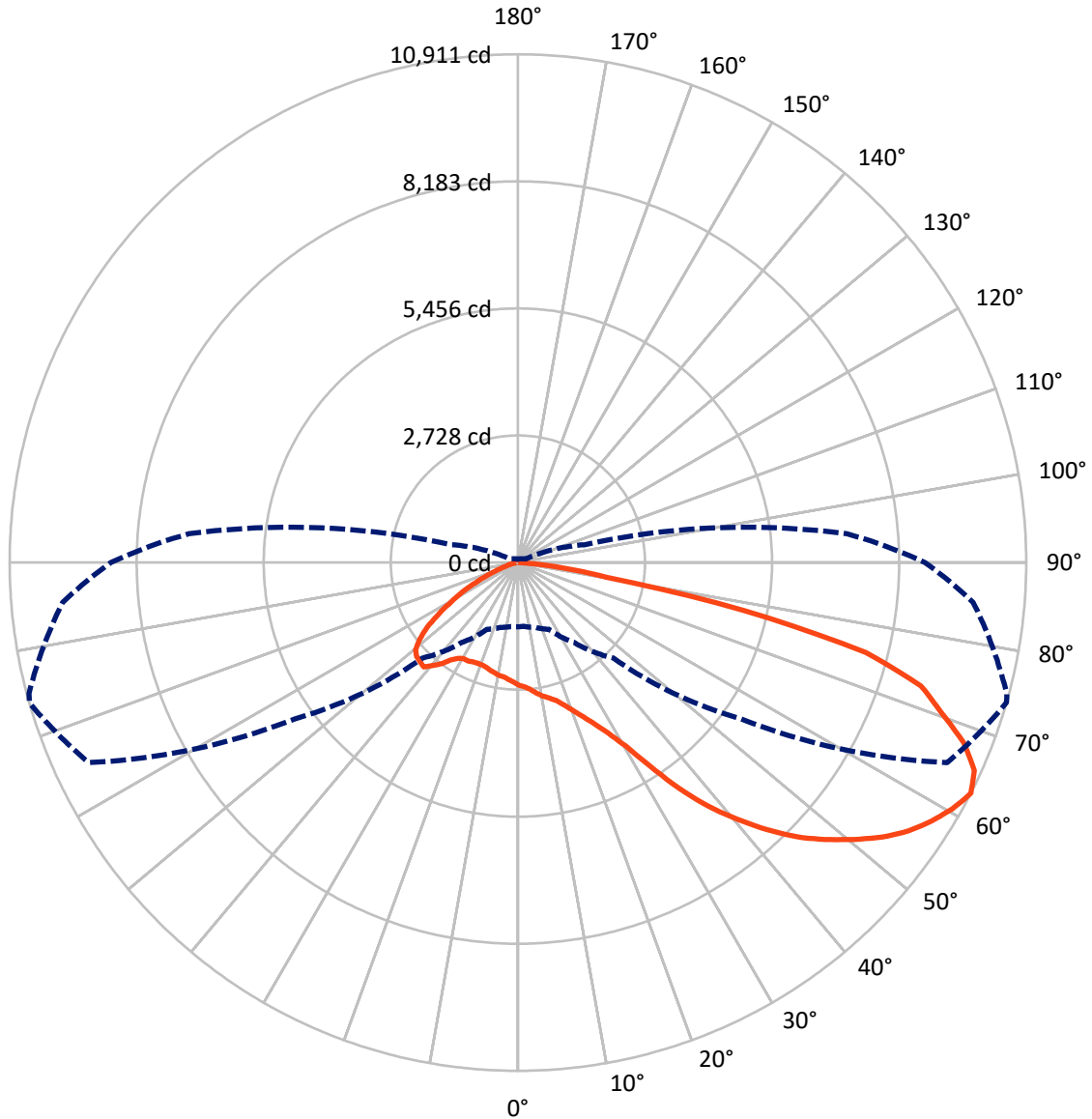
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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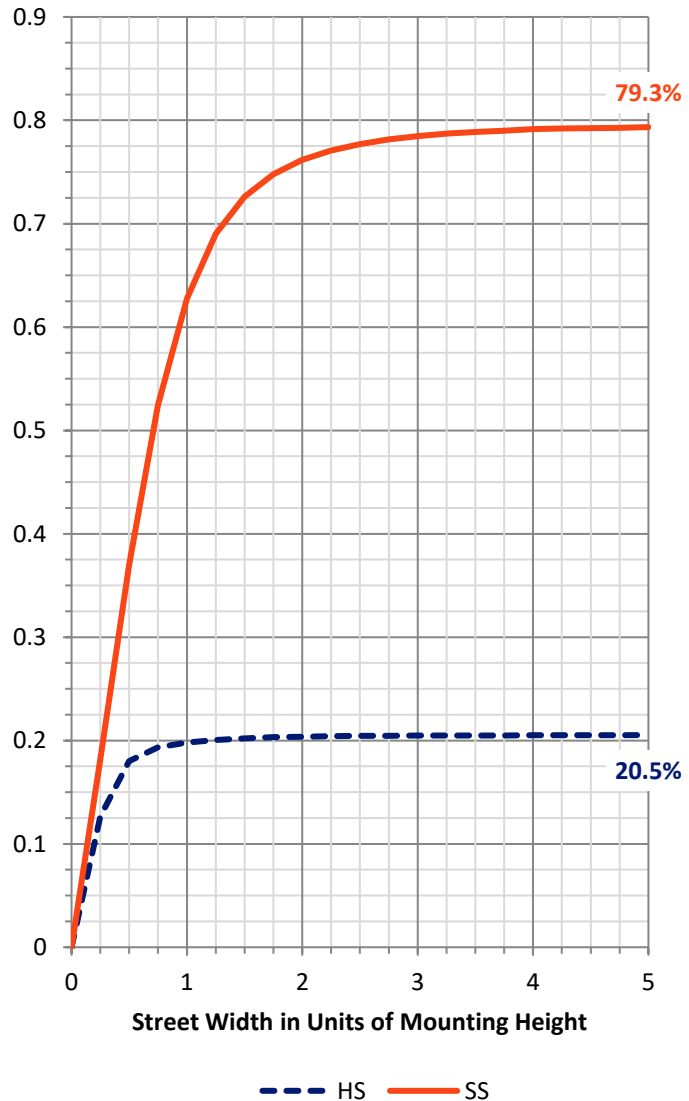
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2981.7	0.0	2981.7
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	11377.3	0.0	11377.3
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	14359.0	0.0	14359.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.9	1.7
10°-20°	757.8	5.3
20°-30°	1279.5	8.9
30°-40°	1903.1	13.3
40°-50°	2575.8	17.9
50°-60°	2963.4	20.6
60°-70°	2860.4	19.9
70°-80°	1619.5	11.3
80°-90°	148.5	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°	14359.0	100.0
0°-180°	14359.0	100.0



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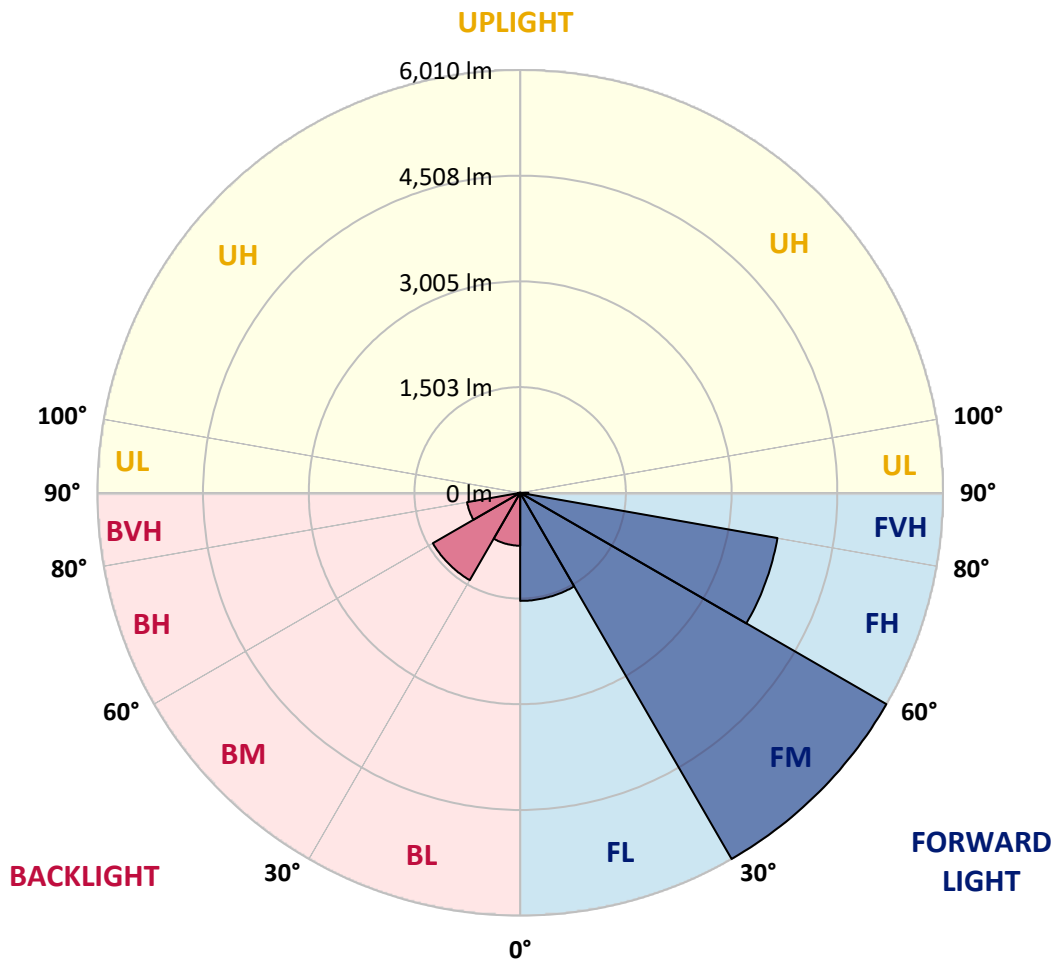
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1536.4	10.7			
FM	(30°-60°)	6010.4	41.9			
FH	(60°-80°)	3713.4	25.9			G2/5000
FVH	(80°-90°)	117.1	0.8			G2/225
BL	(0°-30°)	751.8	5.2	B2/1000		
BM	(30°-60°)	1431.9	10.0	B2/2500		
BH	(60°-80°)	766.5	5.3	B2/1000		G2/1000
BVH	(80°-90°)	31.5	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°	2631.9	2631.9	2631.9	2631.9	2631.9	2631.9	2631.9	2631.9	2631.9	2631.9	2631.9
2.5°	2869.8	2851.0	2835.6	2827.0	2803.1	2782.5	2741.5	2698.7	2669.6	2667.9	2640.5
5°	2989.6	2987.9	2953.7	2946.8	2914.3	2904.0	2863.0	2801.3	2729.5	2720.9	2647.3
7.5°	3147.0	3128.2	3090.6	3075.2	3037.5	3010.1	2955.4	2897.2	2825.3	2816.8	2688.4
10°	3299.3	3289.1	3266.8	3268.5	3215.5	3164.1	3082.0	2982.7	2914.3	2904.0	2746.6
12.5°	3475.6	3443.1	3405.4	3384.9	3331.8	3299.3	3220.6	3090.6	2982.7	2972.5	2815.0
15°	3597.1	3580.0	3545.8	3532.1	3480.7	3427.7	3337.0	3236.0	3073.4	3063.2	2885.2
17.5°	3727.1	3718.6	3679.2	3670.7	3621.0	3557.7	3487.6	3355.8	3213.8	3196.7	2969.1
20°	3814.4	3799.0	3793.9	3792.2	3778.5	3739.1	3650.1	3547.5	3390.0	3359.2	3076.9
22.5°	3930.8	3915.4	3922.2	3929.1	3947.9	3930.8	3872.6	3751.1	3595.4	3568.0	3246.3
25°	3942.8	3932.5	3978.7	4074.5	4112.2	4131.0	4086.5	3992.4	3841.8	3805.9	3448.2
27.5°	3975.3	3959.9	4009.5	4110.5	4279.9	4309.0	4317.5	4273.0	4146.4	4125.9	3722.0
30°	3917.1	3906.8	3983.8	4156.7	4346.6	4510.9	4574.2	4635.8	4577.6	4541.7	4103.6
32.5°	3775.1	3781.9	3882.9	4112.2	4463.0	4716.3	4880.5	5097.9	5202.3	5195.4	4779.6
35°	3568.0	3564.6	3734.0	4057.4	4473.3	4909.6	5216.0	5657.5	5950.1	5929.6	5489.8
37.5°	3391.7	3383.2	3574.8	3918.8	4481.8	5063.6	5609.5	6268.4	6639.7	6619.2	6069.9
40°	3176.1	3189.8	3360.9	3757.9	4409.9	5178.3	5951.8	6862.2	7242.1	7242.1	6670.5
42.5°	2958.8	2970.8	3140.2	3533.8	4305.6	5262.2	6273.5	7454.3	7841.0	7849.6	7082.9
45°	2768.8	2774.0	2928.0	3282.2	4117.3	5275.8	6569.6	8048.1	8402.3	8380.1	7553.5
47.5°	2435.1	2491.6	2732.9	3056.3	3860.6	5216.0	6819.4	8576.9	8884.9	8838.7	8001.9
50°	1940.6	1940.6	2274.3	2840.7	3566.3	5056.8	7016.2	9059.5	9343.5	9300.8	8393.8
52.5°	1783.1	1786.6	1889.2	2537.8	3268.5	4783.0	7129.2	9538.6	9793.6	9764.5	8765.1
55°	1699.3	1704.4	1752.3	2056.9	2998.1	4363.7	7132.6	9910.0	10175.2	10110.2	9078.3
57.5°	1572.7	1564.1	1665.1	1832.8	2681.6	3823.0	6964.9	10197.5	10471.3	10421.6	9335.0
60°	1483.7	1470.0	1538.4	1689.0	2341.0	3263.4	6518.2	10406.2	10724.5	10753.6	9586.5
62.5°	1379.3	1374.1	1439.2	1581.2	2089.5	2897.2	5847.4	10163.2	10911.1	10864.9	9809.0
65°	1274.9	1264.6	1326.2	1437.5	1846.5	2597.7	5171.5	9803.9	10767.3	10808.4	9853.5
67.5°	1138.0	1136.3	1194.5	1276.6	1581.2	2262.3	4192.6	9331.6	10322.4	10293.3	9449.6
70°	972.0	972.0	1030.2	1102.1	1321.1	1930.3	3218.9	8522.1	9637.9	9807.3	8758.3
72.5°	785.5	788.9	847.1	929.2	1090.1	1572.7	2373.5	7411.5	9044.1	8772.0	7782.9
75°	419.3	376.5	664.0	747.8	879.6	1254.4	1624.0	4818.9	7712.7	7524.5	6456.6
77.5°	101.0	106.1	208.8	388.5	468.9	694.8	799.2	2231.5	4973.0	5272.4	4605.0
80°	66.7	73.6	112.9	275.5	313.2	369.6	316.6	972.0	1928.6	2055.2	2673.0
82.5°	34.2	37.6	70.2	109.5	111.2	95.8	119.8	489.4	1019.9	1105.5	1285.2
85°	12.0	18.8	35.9	47.9	44.5	35.9	29.1	121.5	241.3	268.7	278.9
87.5°	0.0	0.0	5.1	5.1	3.4	3.4	5.1	5.1	6.8	5.1	5.1
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°	2631.9	2631.9	2631.9	2631.9	2631.9	2631.9	2631.9	2631.9	2631.9	2631.9	2631.9
2.5°	2618.2	2599.4	2570.3	2539.5	2507.0	2479.6	2464.2	2472.8	2483.1	2450.5	2438.6
5°	2613.1	2580.6	2525.8	2460.8	2411.2	2361.6	2303.4	2289.7	2276.0	2258.9	2240.1
7.5°	2637.1	2589.2	2477.9	2418.0	2313.6	2221.2	2169.9	2132.2	2098.0	2067.2	2048.4
10°	2681.6	2592.6	2467.7	2346.2	2231.5	2118.6	2007.3	1985.1	1978.2	1933.7	1901.2
12.5°	2710.7	2601.1	2431.7	2284.5	2120.3	1998.8	1887.5	1824.2	1819.1	1798.5	1776.3
15°	2756.9	2635.4	2407.8	2207.5	2007.3	1879.0	1776.3	1694.2	1653.1	1651.4	1634.3
17.5°	2840.7	2674.7	2370.1	2128.8	1916.6	1772.9	1625.7	1594.9	1526.5	1487.1	1476.8
20°	2926.3	2732.9	2359.8	2050.1	1798.5	1620.6	1507.6	1422.1	1367.3	1326.2	1300.6
22.5°	3037.5	2816.8	2363.3	2003.9	1702.7	1505.9	1358.7	1232.1	1131.1	1081.5	1057.6
25°	3198.4	2914.3	2388.9	1933.7	1589.8	1382.7	1168.8	1001.1	859.1	823.1	806.0
27.5°	3403.7	3051.2	2424.9	1861.9	1485.4	1216.7	939.5	751.2	633.2	605.8	588.7
30°	3718.6	3256.5	2430.0	1817.4	1391.3	1001.1	703.3	556.2	463.8	434.7	438.1
32.5°	4310.7	3696.3	2498.5	1725.0	1223.6	768.4	516.8	405.6	335.4	325.1	342.3
35°	4998.6	4214.9	2630.2	1677.0	1031.9	556.2	369.6	297.8	253.3	267.0	273.8
37.5°	5441.8	4671.8	2840.7	1567.5	807.7	409.0	258.4	232.7	224.2	232.7	248.1
40°	5958.6	5043.1	3020.4	1456.3	573.3	280.6	207.1	212.2	201.9	200.2	207.1
42.5°	6377.9	5424.7	3212.1	1273.2	398.7	208.8	190.0	193.4	186.5	178.0	178.0
45°	6776.6	5755.0	3210.3	1026.8	263.5	184.8	174.5	181.4	179.7	167.7	166.0
47.5°	7125.7	6088.7	3212.1	746.1	200.2	169.4	162.6	169.4	169.4	159.1	157.4
50°	7558.7	6365.9	3160.7	477.4	183.1	157.4	155.7	154.0	160.9	147.2	143.7
52.5°	7823.9	6567.9	2929.7	321.7	169.4	148.9	145.5	142.0	145.5	133.5	133.5
55°	8114.8	6819.4	2628.5	255.0	160.9	138.6	136.9	133.5	133.5	119.8	121.5
57.5°	8431.4	7024.8	2222.9	224.2	154.0	131.8	128.3	123.2	116.4	106.1	104.4
60°	8660.7	7067.5	1819.1	203.6	148.9	128.3	114.7	107.8	95.8	89.0	87.3
62.5°	8737.7	7089.8	1475.1	183.1	140.3	118.1	102.7	90.7	77.0	71.9	71.9
65°	8674.4	6833.1	1105.5	166.0	130.1	109.5	90.7	73.6	59.9	54.8	53.0
67.5°	8267.1	6360.8	804.3	148.9	114.7	99.3	78.7	59.9	47.9	42.8	42.8
70°	7526.2	5804.6	544.2	124.9	99.3	87.3	73.6	47.9	39.4	34.2	32.5
72.5°	6718.4	4921.6	347.4	101.0	77.0	68.5	53.0	41.1	32.5	25.7	25.7
75°	5313.5	3865.8	241.3	73.6	54.8	51.3	41.1	34.2	27.4	20.5	20.5
77.5°	3698.1	2512.1	190.0	56.5	37.6	34.2	30.8	25.7	22.2	17.1	15.4
80°	2144.2	1511.1	114.7	37.6	25.7	22.2	20.5	20.5	17.1	12.0	12.0
82.5°	1064.4	629.7	49.6	24.0	17.1	15.4	13.7	12.0	12.0	8.6	8.6
85°	208.8	107.8	18.8	12.0	8.6	8.6	6.8	6.8	5.1	3.4	3.4
87.5°	6.8	5.1	5.1	5.1	3.4	3.4	1.7	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)