

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: P509572

Luminaire Tested: **VERD-G-CA2-120-760-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-120-760-U-T2-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

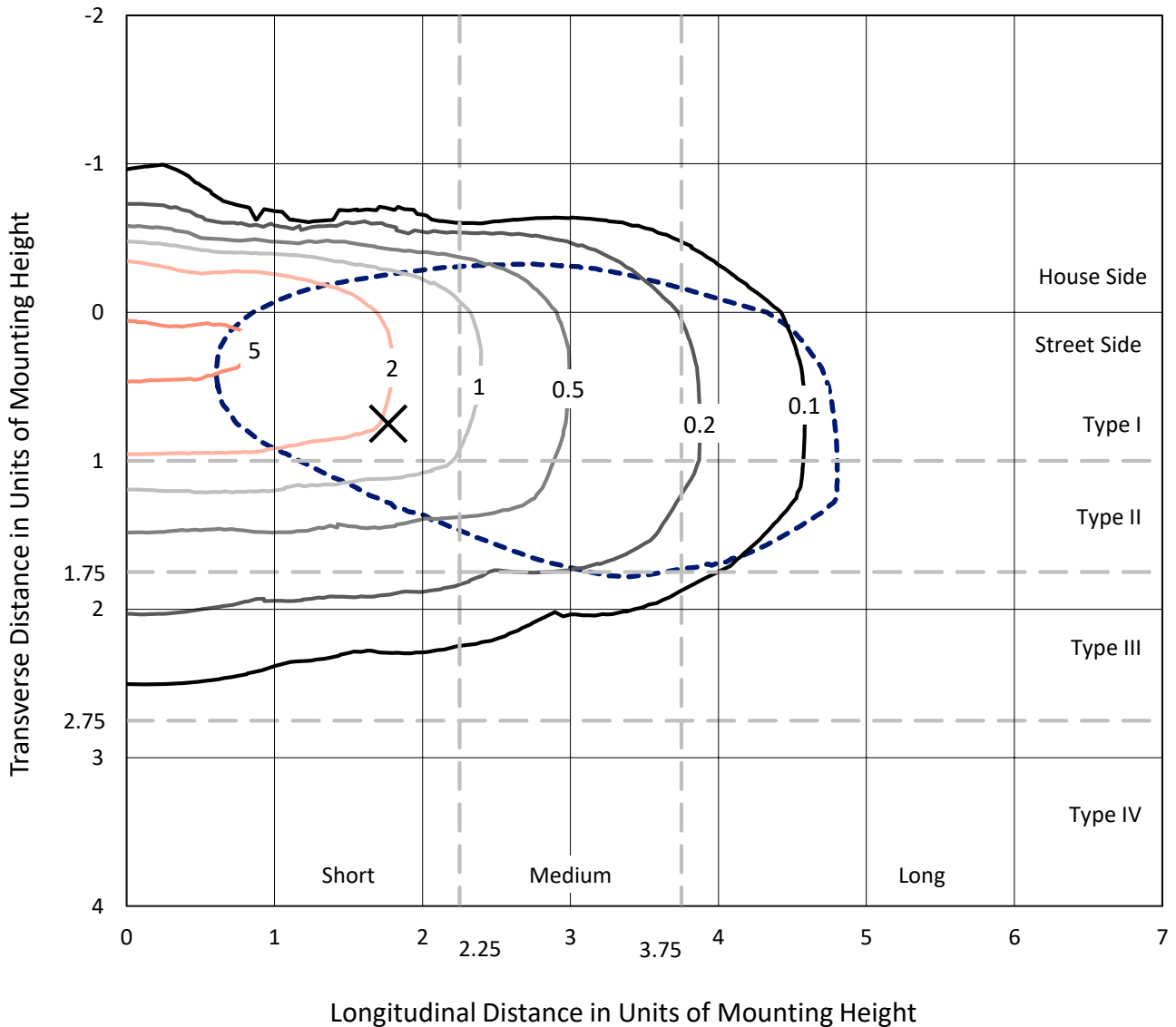
Lumens per Lamp: N/A  
Luminaire Lumens: 16220 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): 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

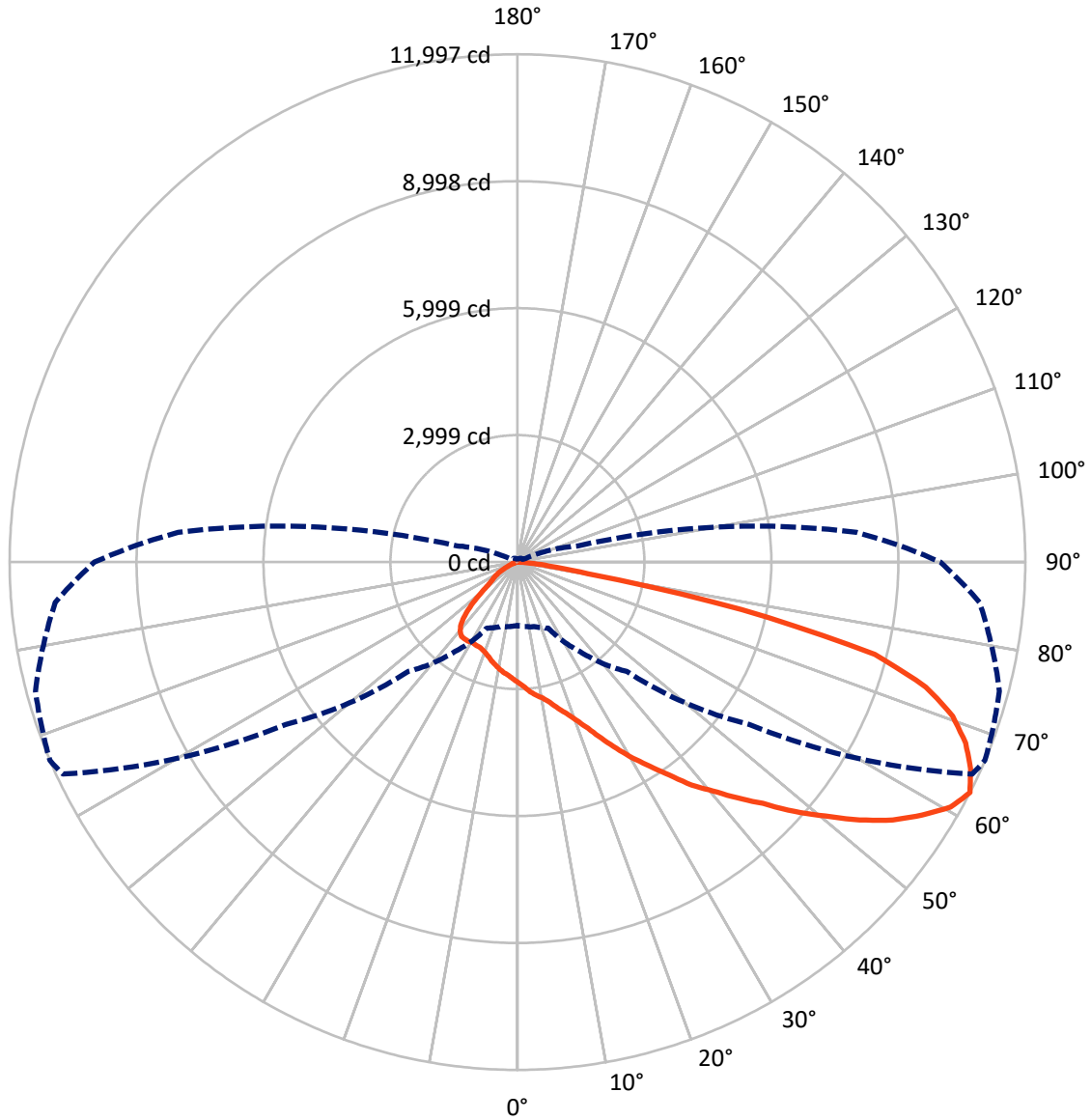
✕ Max cd  
 - - - 1/2 Max cd



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 67-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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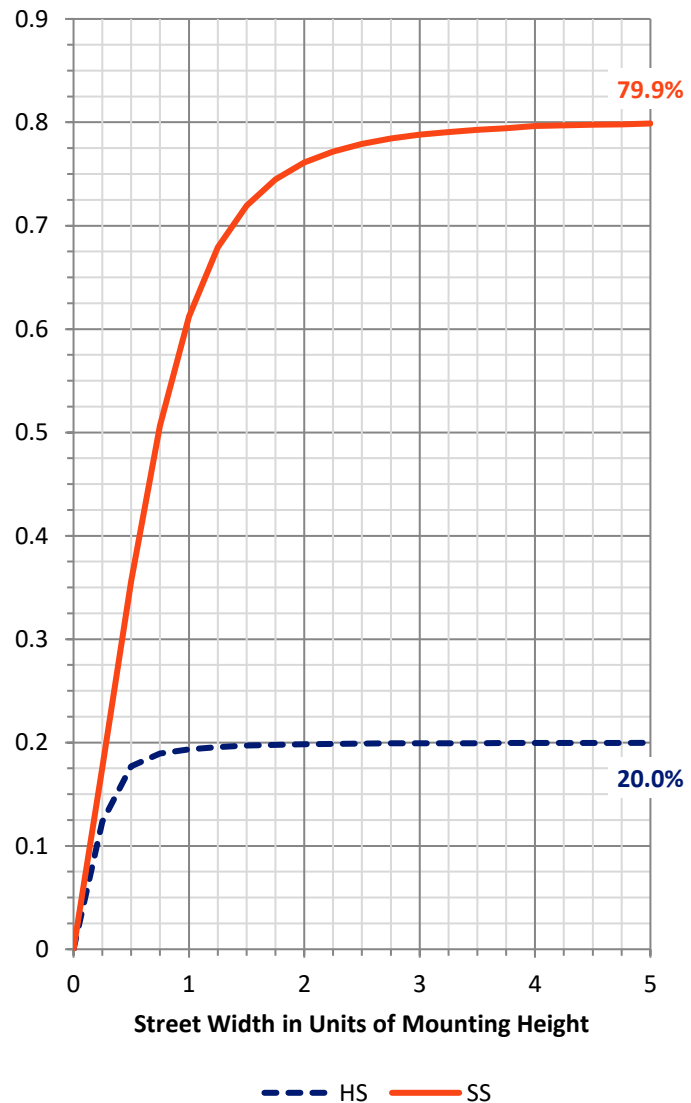
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3277.7	0.0	3277.7
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	12942.3	0.0	12942.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	16220.0	0.0	16220.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.4	1.7
10°-20°	830.5	5.1
20°-30°	1416.7	8.7
30°-40°	2075.5	12.8
40°-50°	2739.0	16.9
50°-60°	3223.3	19.9
60°-70°	3315.2	20.4
70°-80°	2147.9	13.2
80°-90°	196.6	1.2
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°	16220.0	100.0
0°-180°	16220.0	100.0



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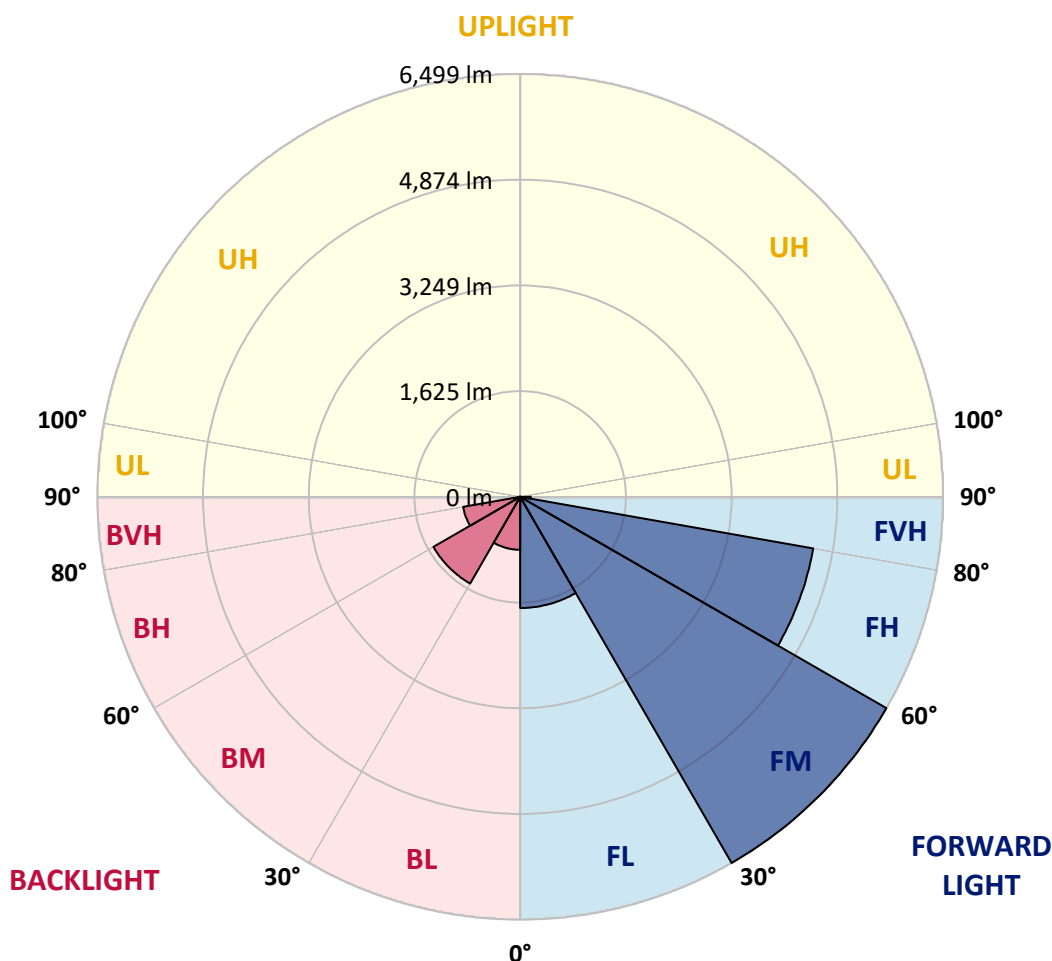
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.0	10.5			
FM (30°-60°)	6498.6	40.1			
FH (60°-80°)	4573.2	28.2			G2/5000
FVH (80°-90°)	162.6	1.0			G2/225
BL (0°-30°)	814.6	5.0	B2/1000		
BM (30°-60°)	1539.2	9.5	B2/2500		
BH (60°-80°)	889.9	5.5	B2/1000		G2/1000
BVH (80°-90°)	34.0	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°	67°	75°	85°
0°	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0
2.5°	3160.8	3157.3	3123.4	3091.8	3070.8	3069.6	3014.7	2965.7	2943.5	2917.7	2860.5
5°	3324.4	3352.4	3315.0	3268.3	3230.9	3202.9	3154.9	3098.9	3075.5	3014.7	2928.3
7.5°	3561.6	3561.6	3526.5	3486.8	3443.6	3368.8	3287.0	3188.8	3177.2	3109.4	2996.0
10°	3676.1	3704.1	3658.6	3611.8	3563.9	3525.4	3414.4	3294.0	3264.8	3163.1	3022.9
12.5°	3836.2	3836.2	3811.6	3771.9	3717.0	3639.9	3568.6	3447.1	3398.0	3246.1	3070.8
15°	3986.9	3974.1	3953.0	3887.6	3859.6	3811.6	3718.2	3590.8	3581.5	3413.2	3144.4
17.5°	4104.9	4083.9	4064.0	4029.0	3995.1	3976.4	3909.8	3798.8	3760.2	3606.0	3283.5
20°	4165.7	4183.2	4135.3	4134.2	4144.7	4130.6	4086.2	4003.3	3986.9	3803.5	3424.9
22.5°	4234.6	4258.0	4246.3	4258.0	4289.6	4312.9	4310.6	4293.1	4267.4	4067.5	3652.7
25°	4249.8	4234.6	4283.7	4392.4	4471.8	4527.9	4637.8	4615.6	4608.6	4432.1	3962.4
27.5°	4203.1	4217.1	4294.2	4450.8	4655.3	4808.4	4898.4	5009.4	4984.8	4848.1	4335.1
30°	4175.0	4199.6	4301.2	4484.7	4759.3	5036.2	5213.8	5351.7	5372.8	5264.1	4702.0
32.5°	4078.1	4110.8	4215.9	4511.6	4861.0	5280.4	5501.3	5758.4	5749.0	5704.6	5148.4
35°	3928.5	3971.7	4133.0	4476.5	4975.5	5500.1	5793.4	6167.3	6174.4	6193.0	5572.6
37.5°	3808.1	3822.2	4005.6	4372.5	5021.0	5677.7	6065.7	6571.6	6685.0	6658.1	6054.0
40°	3615.3	3657.4	3856.0	4245.2	5016.4	5798.1	6342.6	7044.9	7105.6	7189.8	6557.6
42.5°	3378.1	3423.7	3614.2	4072.2	4950.9	5903.3	6609.0	7527.5	7612.8	7744.8	7019.2
45°	3150.3	3170.1	3348.9	3819.8	4823.6	5986.2	6868.4	8003.1	8133.9	8323.2	7484.2
47.5°	2866.3	2920.1	3119.9	3555.7	4542.0	6016.6	7060.1	8563.9	8804.6	8920.3	8014.7
50°	2205.0	2238.8	2799.7	3323.2	4235.8	5922.0	7309.0	9275.5	9427.5	9547.8	8552.2
52.5°	1943.2	1973.6	2190.9	3054.5	3894.6	5676.6	7460.9	9936.9	10120.4	10094.7	9092.1
55°	1833.4	1848.6	1942.0	2492.4	3583.8	5220.9	7567.2	10659.1	10758.4	10592.4	9627.3
57.5°	1706.0	1723.5	1793.6	2089.3	3233.2	4643.6	7478.4	11237.5	11274.9	11069.2	10104.0
60°	1592.7	1604.3	1709.5	1869.6	2852.3	4083.9	7254.0	11653.4	11757.4	11419.7	10618.2
62.5°	1495.7	1523.7	1578.6	1720.0	2585.9	3650.4	6686.2	11849.8	11997.0	11786.7	10959.4
65°	1399.9	1412.7	1475.8	1600.8	2299.6	3394.5	6361.3	11591.5	11763.3	11835.7	11169.7
67.5°	1269.0	1287.7	1349.6	1439.6	1918.7	3145.6	5603.0	11172.0	11417.4	11577.5	11044.7
70°	1115.9	1132.3	1195.4	1270.2	1602.0	2778.7	4728.9	10744.4	10905.6	10916.1	10486.1
72.5°	938.3	953.5	1016.6	1091.4	1329.8	2313.6	3706.5	9731.3	10092.3	10321.4	9549.0
75°	597.1	662.5	819.1	903.3	1094.9	1871.9	2644.3	7769.4	8718.2	9372.5	8263.6
77.5°	97.0	108.7	321.3	458.1	636.8	1269.0	1468.8	4304.8	5414.8	7832.5	6672.1
80°	73.6	83.0	116.8	310.8	409.0	789.9	578.4	1397.5	1685.0	3662.1	3738.0
82.5°	31.5	37.4	70.1	174.1	192.8	210.3	155.4	625.1	739.7	1113.6	1297.0
85°	10.5	14.0	32.7	54.9	60.8	46.7	33.9	247.7	305.0	534.0	494.3
87.5°	0.0	1.2	7.0	8.2	7.0	4.7	3.5	2.3	2.3	3.5	3.5
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°	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0
2.5°	2848.8	2809.1	2804.4	2756.5	2713.3	2664.2	2633.8	2623.3	2637.3	2651.3	2665.3
5°	2883.9	2823.1	2762.3	2663.0	2618.6	2564.9	2493.6	2450.3	2430.5	2448.0	2453.8
7.5°	2909.6	2831.3	2737.8	2602.2	2506.4	2403.6	2335.8	2263.4	2223.7	2230.7	2236.5
10°	2914.2	2827.8	2668.9	2538.0	2383.7	2242.4	2153.5	2119.7	2092.8	2069.4	2072.9
12.5°	2957.5	2830.1	2610.4	2451.5	2289.1	2106.8	2007.5	1964.2	1959.6	1911.7	1907.0
15°	3015.9	2881.5	2580.0	2373.2	2165.2	1993.5	1875.4	1798.3	1800.7	1776.1	1772.6
17.5°	3110.5	2931.8	2557.8	2282.1	2035.5	1877.8	1728.2	1658.1	1635.9	1628.9	1623.0
20°	3216.9	3005.4	2531.0	2201.5	1922.2	1738.7	1571.6	1500.4	1438.4	1419.7	1422.1
22.5°	3373.5	3102.4	2553.2	2140.7	1796.0	1603.2	1437.3	1298.2	1191.9	1163.8	1160.3
25°	3650.4	3294.0	2619.8	2088.1	1717.7	1471.1	1248.0	1052.8	912.6	882.2	884.6
27.5°	3958.9	3546.4	2712.1	2065.9	1618.4	1325.1	1017.8	800.4	669.6	634.5	636.8
30°	4324.6	3846.7	2852.3	2004.0	1512.0	1112.4	758.4	586.6	484.9	444.0	446.4
32.5°	4676.3	4147.0	3032.3	1994.6	1378.8	835.5	548.0	426.5	343.5	313.2	316.7
35°	5064.3	4490.5	3221.6	1947.9	1160.3	599.4	384.4	295.6	251.2	241.9	240.7
37.5°	5503.6	4796.7	3361.8	1904.7	868.2	421.8	262.9	227.9	222.0	209.2	209.2
40°	5911.4	5115.7	3466.9	1790.1	607.6	286.3	205.7	206.8	201.0	183.5	179.9
42.5°	6287.7	5445.2	3563.9	1606.7	411.3	195.1	184.6	188.1	190.5	170.6	165.9
45°	6714.2	5851.8	3542.9	1330.9	261.7	176.4	165.9	176.4	188.1	168.3	163.6
47.5°	7181.6	6149.8	3587.3	960.5	184.6	167.1	154.2	168.3	177.6	164.8	157.7
50°	7709.8	6540.1	3452.9	558.5	169.4	157.7	148.4	154.2	168.3	161.3	153.1
52.5°	8193.5	6888.3	3269.5	273.4	160.1	148.4	139.1	143.7	157.7	149.6	151.9
55°	8601.3	7250.5	2896.7	195.1	154.2	137.9	134.4	135.5	143.7	133.2	140.2
57.5°	9101.4	7548.5	2518.1	182.3	149.6	130.9	132.0	122.7	125.0	119.2	112.2
60°	9546.6	7830.1	2004.0	168.3	142.6	134.4	119.2	106.3	99.3	95.8	94.6
62.5°	9991.8	8044.0	1477.0	153.1	135.5	121.5	105.2	91.1	79.5	74.8	73.6
65°	10160.1	8158.5	1008.4	140.2	127.4	111.0	93.5	73.6	60.8	56.1	52.6
67.5°	10035.1	7799.7	584.2	126.2	122.7	101.7	81.8	59.6	46.7	43.2	40.9
70°	9455.5	7236.5	312.0	114.5	107.5	90.0	72.4	49.1	37.4	32.7	31.5
72.5°	8458.8	6223.4	163.6	95.8	90.0	73.6	57.3	40.9	30.4	24.5	23.4
75°	7182.8	4885.5	114.5	70.1	61.9	57.3	43.2	32.7	24.5	18.7	17.5
77.5°	5669.6	3174.8	86.5	45.6	36.2	37.4	31.5	26.9	19.9	14.0	14.0
80°	2928.3	1649.9	65.4	30.4	21.0	22.2	22.2	19.9	15.2	10.5	10.5
82.5°	1161.5	607.6	45.6	17.5	12.9	14.0	12.9	12.9	10.5	7.0	7.0
85°	383.3	133.2	16.4	10.5	8.2	8.2	7.0	5.8	3.5	2.3	2.3
87.5°	3.5	3.5	4.7	5.8	5.8	4.7	3.5	1.2	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)