

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: P509188

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

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509188  
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-CA2-120-760-U-T2-HSS  
Description: VERDEON 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: 15549 lumens  
Efficiency: N/A  
Efficacy: 126.7 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

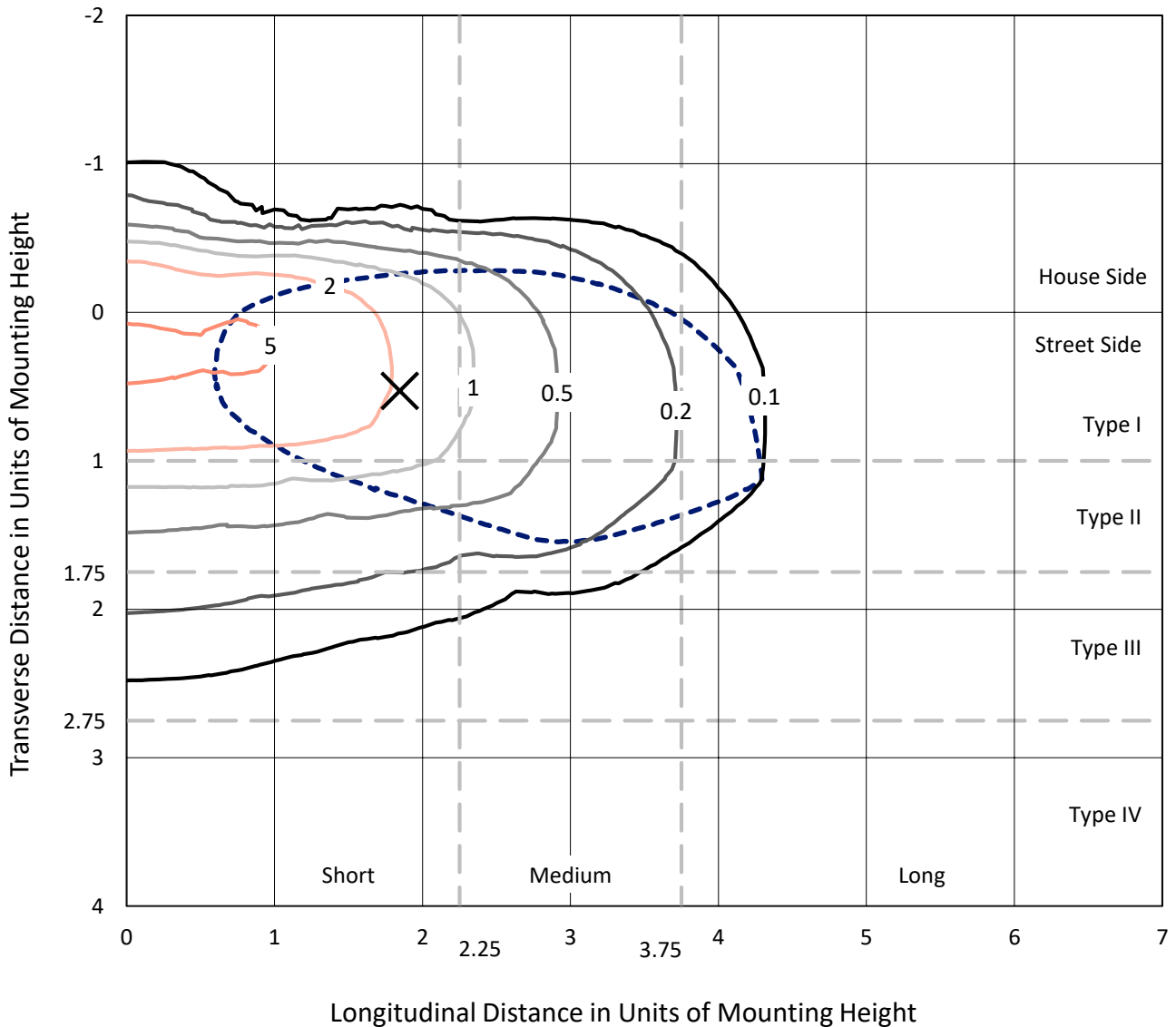
Input Watts (W): 122.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

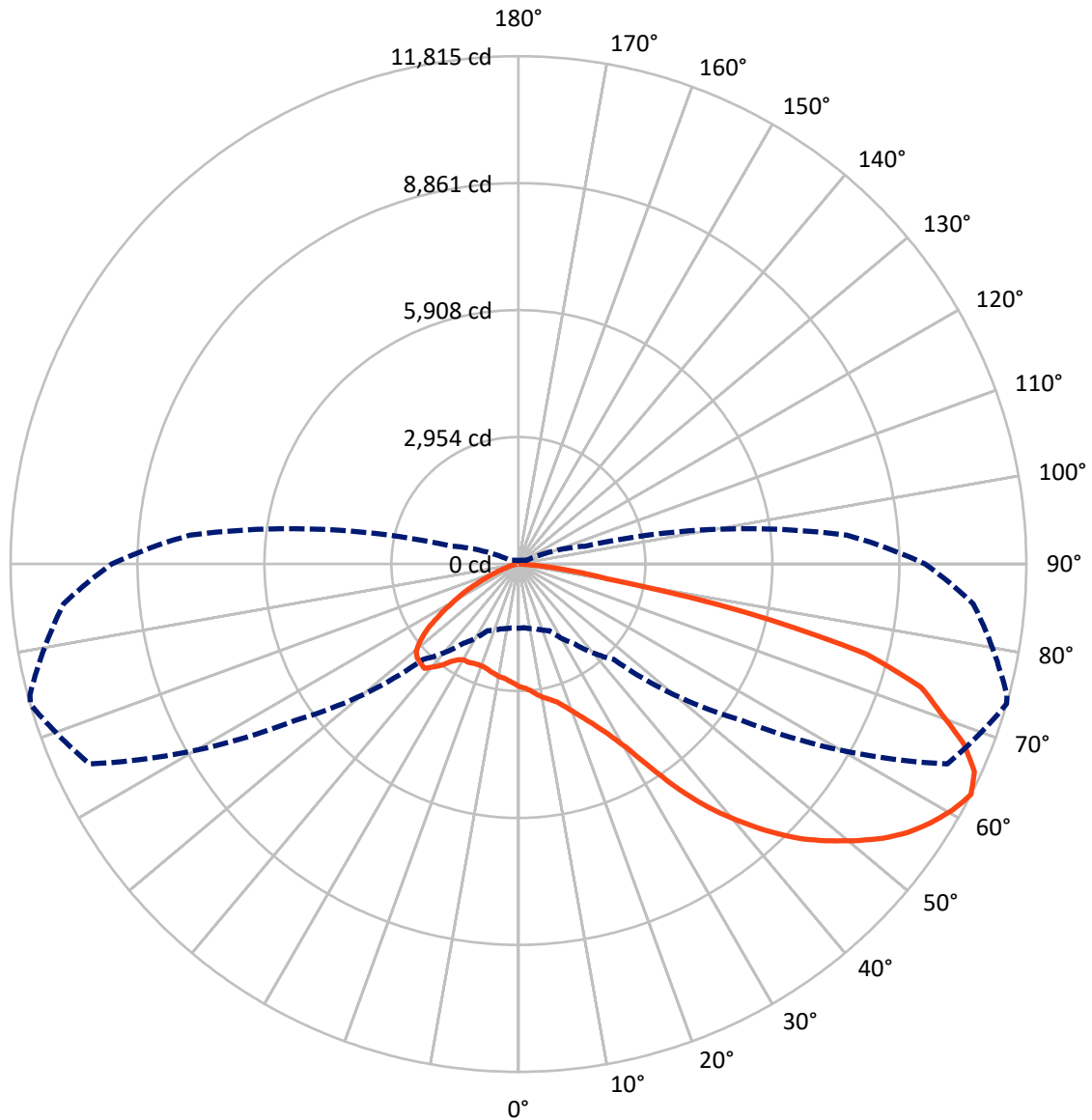
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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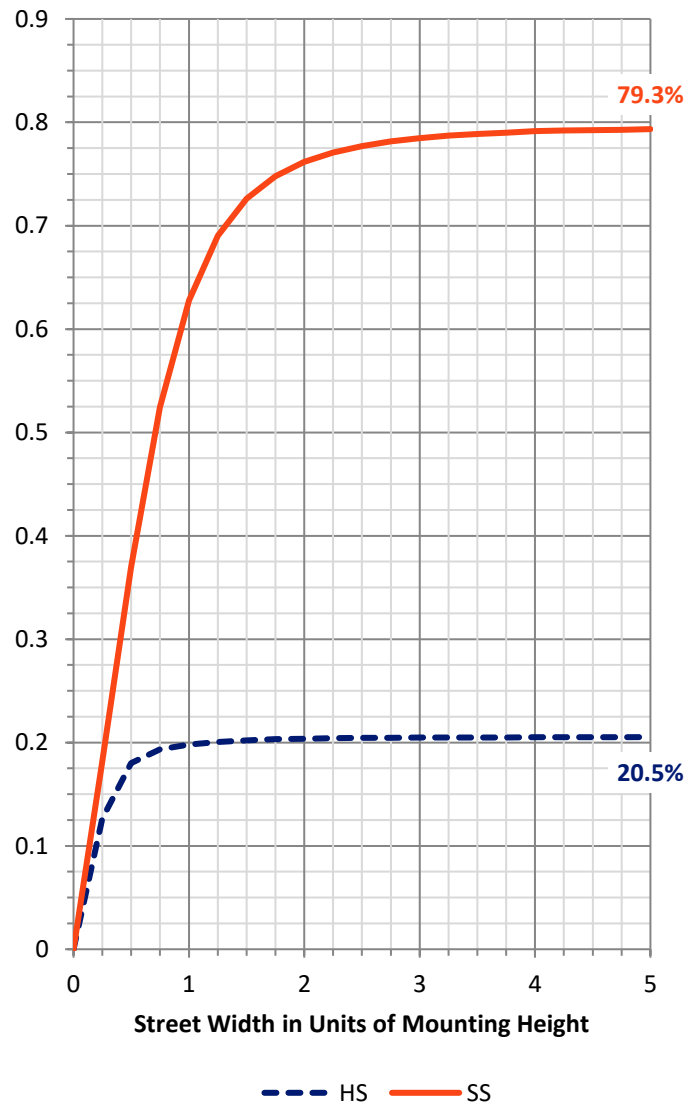
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3228.8	0.0	3228.8
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	12320.2	0.0	12320.2
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	15549.0	0.0	15549.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.7	1.7
10°-20°	820.7	5.3
20°-30°	1385.5	8.9
30°-40°	2060.8	13.3
40°-50°	2789.2	17.9
50°-60°	3209.0	20.6
60°-70°	3097.5	19.9
70°-80°	1753.7	11.3
80°-90°	160.9	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°	15549.0	100.0
0°-180°	15549.0	100.0



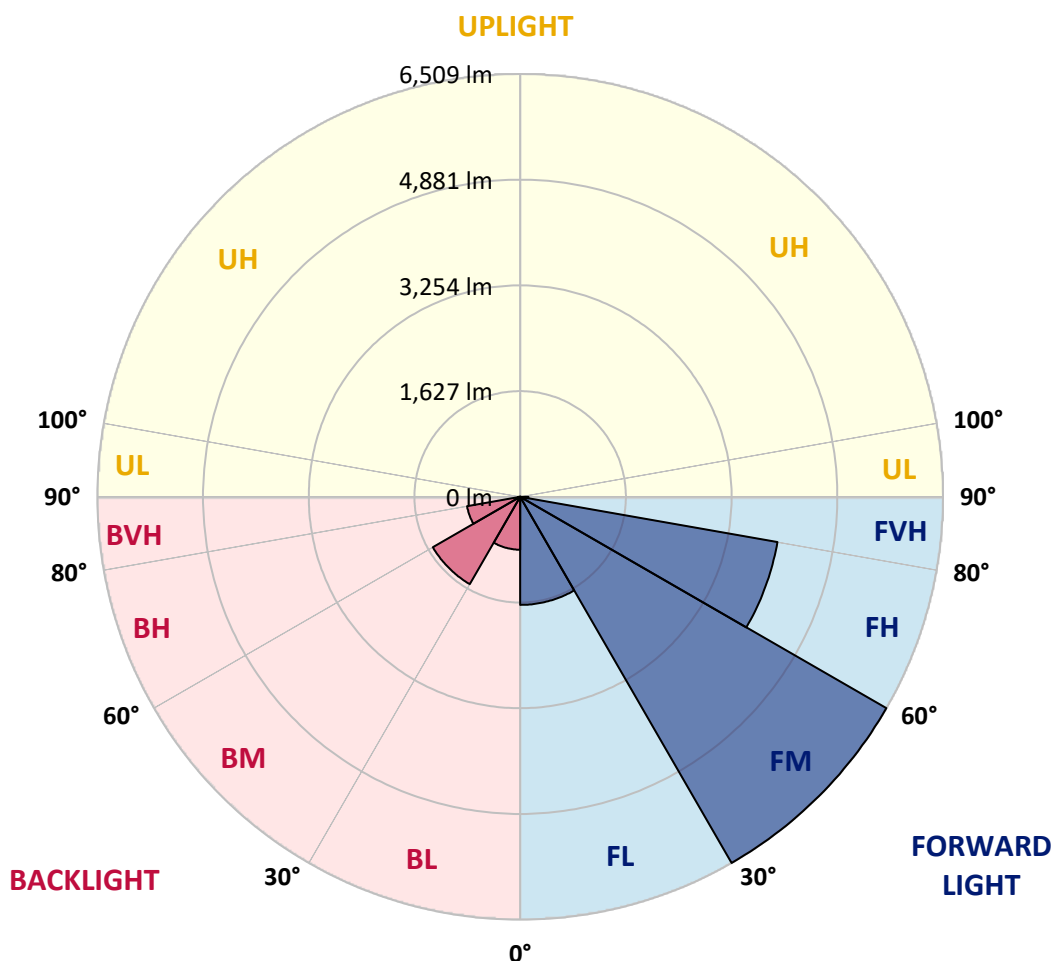
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.7	10.7			
FM (30°-60°)	6508.5	41.9			
FH (60°-80°)	4021.2	25.9			G2/5000
FVH (80°-90°)	126.8	0.8			G2/225
BL (0°-30°)	814.1	5.2	B2/1000		
BM (30°-60°)	1550.5	10.0	B2/2500		
BH (60°-80°)	830.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	34.1	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°	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1
2.5°	3107.6	3087.3	3070.6	3061.3	3035.4	3013.1	2968.7	2922.3	2890.8	2889.0	2859.3
5°	3237.4	3235.5	3198.4	3191.0	3155.8	3144.7	3100.2	3033.5	2955.7	2946.4	2866.7
7.5°	3407.8	3387.5	3346.7	3330.0	3289.2	3259.6	3200.3	3137.3	3059.5	3050.2	2911.2
10°	3572.8	3561.6	3537.6	3539.4	3482.0	3426.4	3337.4	3229.9	3155.8	3144.7	2974.2
12.5°	3763.6	3728.4	3687.7	3665.4	3608.0	3572.8	3487.5	3346.7	3229.9	3218.8	3048.3
15°	3895.2	3876.7	3839.6	3824.8	3769.2	3711.7	3613.5	3504.2	3328.2	3317.0	3124.3
17.5°	4036.0	4026.8	3984.1	3974.9	3921.1	3852.6	3776.6	3633.9	3480.1	3461.6	3215.1
20°	4130.5	4113.9	4108.3	4106.5	4091.6	4049.0	3952.6	3841.5	3671.0	3637.6	3331.9
22.5°	4256.6	4239.9	4247.3	4254.7	4275.1	4256.6	4193.5	4062.0	3893.3	3863.7	3515.3
25°	4269.5	4258.4	4308.4	4412.2	4453.0	4473.4	4425.2	4323.3	4160.2	4121.3	3734.0
27.5°	4304.7	4288.1	4341.8	4451.1	4634.6	4666.1	4675.3	4627.2	4490.0	4467.8	4030.5
30°	4241.7	4230.6	4314.0	4501.2	4706.9	4884.7	4953.3	5020.0	4957.0	4918.1	4443.7
32.5°	4087.9	4095.3	4204.7	4453.0	4832.9	5107.1	5285.0	5520.4	5633.4	5626.0	5175.7
35°	3863.7	3860.0	4043.4	4393.7	4844.0	5316.5	5648.2	6126.3	6443.2	6421.0	5944.7
37.5°	3672.8	3663.6	3871.1	4243.6	4853.2	5483.3	6074.4	6787.9	7190.0	7167.8	6572.9
40°	3439.3	3454.2	3639.5	4069.4	4775.4	5607.5	6445.1	7430.9	7842.3	7842.3	7223.3
42.5°	3204.0	3217.0	3400.4	3826.6	4662.4	5698.3	6793.4	8072.1	8490.9	8500.1	7669.9
45°	2998.3	3003.9	3170.6	3554.2	4458.5	5713.1	7114.0	8715.1	9098.7	9074.6	8179.5
47.5°	2636.9	2698.1	2959.4	3309.6	4180.6	5648.2	7384.6	9287.7	9621.3	9571.2	8665.1
50°	2101.4	2101.4	2462.8	3076.1	3861.8	5475.9	7597.7	9810.3	10117.9	10071.6	9089.4
52.5°	1930.9	1934.6	2045.8	2748.1	3539.4	5179.4	7720.0	10329.1	10605.2	10573.7	9491.5
55°	1840.1	1845.7	1897.6	2227.4	3246.6	4725.4	7723.7	10731.3	11018.5	10948.1	9830.6
57.5°	1703.0	1693.7	1803.1	1984.7	2903.8	4139.8	7542.1	11042.6	11339.1	11285.3	10108.6
60°	1606.6	1591.8	1665.9	1829.0	2535.0	3533.8	7058.4	11268.6	11613.3	11644.8	10381.0
62.5°	1493.6	1488.0	1558.4	1712.3	2262.6	3137.3	6332.0	11005.5	11815.3	11765.3	10621.9
65°	1380.6	1369.4	1436.1	1556.6	1999.5	2813.0	5600.0	10616.4	11659.7	11704.1	10670.1
67.5°	1232.3	1230.5	1293.5	1382.4	1712.3	2449.8	4540.1	10104.9	11177.8	11146.3	10232.8
70°	1052.6	1052.6	1115.6	1193.4	1430.6	2090.3	3485.7	9228.4	10436.6	10620.1	9484.1
72.5°	850.6	854.3	917.3	1006.2	1180.4	1703.0	2570.2	8025.7	9793.6	9498.9	8427.9
75°	454.0	407.7	719.0	809.8	952.5	1358.3	1758.6	5218.3	8351.9	8148.0	6991.7
77.5°	109.3	114.9	226.1	420.7	507.7	752.4	865.4	2416.4	5385.1	5709.4	4986.7
80°	72.3	79.7	122.3	298.3	339.1	400.3	342.8	1052.6	2088.4	2225.6	2894.5
82.5°	37.1	40.8	76.0	118.6	120.5	103.8	129.7	530.0	1104.4	1197.1	1391.7
85°	13.0	20.4	38.9	51.9	48.2	38.9	31.5	131.6	261.3	290.9	302.1
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°	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1
2.5°	2835.2	2814.8	2783.3	2750.0	2714.8	2685.1	2668.5	2677.7	2688.8	2653.6	2640.7
5°	2829.7	2794.5	2735.2	2664.7	2611.0	2557.3	2494.3	2479.4	2464.6	2446.1	2425.7
7.5°	2855.6	2803.7	2683.3	2618.4	2505.4	2405.3	2349.7	2309.0	2271.9	2238.5	2218.2
10°	2903.8	2807.4	2672.2	2540.6	2416.4	2294.1	2173.7	2149.6	2142.2	2094.0	2058.8
12.5°	2935.3	2816.7	2633.2	2473.9	2296.0	2164.4	2044.0	1975.4	1969.8	1947.6	1923.5
15°	2985.3	2853.8	2607.3	2390.5	2173.7	2034.7	1923.5	1834.6	1790.1	1788.2	1769.7
17.5°	3076.1	2896.4	2566.5	2305.2	2075.5	1919.8	1760.4	1727.1	1653.0	1610.3	1599.2
20°	3168.8	2959.4	2555.4	2220.0	1947.6	1754.9	1632.6	1539.9	1480.6	1436.1	1408.3
22.5°	3289.2	3050.2	2559.1	2170.0	1843.8	1630.7	1471.4	1334.2	1224.9	1171.2	1145.2
25°	3463.4	3155.8	2586.9	2094.0	1721.5	1497.3	1265.7	1084.1	930.3	891.3	872.8
27.5°	3685.8	3304.1	2625.8	2016.2	1608.5	1317.5	1017.3	813.5	685.6	656.0	637.5
30°	4026.8	3526.4	2631.4	1968.0	1506.6	1084.1	761.6	602.3	502.2	470.7	474.4
32.5°	4667.9	4002.7	2705.5	1867.9	1325.0	832.0	559.6	439.2	363.2	352.1	370.6
35°	5412.9	4564.2	2848.2	1816.0	1117.4	602.3	400.3	322.4	274.3	289.1	296.5
37.5°	5892.8	5058.9	3076.1	1697.4	874.7	442.9	279.8	252.0	242.8	252.0	268.7
40°	6452.5	5461.1	3270.7	1577.0	620.8	303.9	224.2	229.8	218.7	216.8	224.2
42.5°	6906.5	5874.3	3478.3	1378.7	431.8	226.1	205.7	209.4	202.0	192.7	192.7
45°	7338.2	6231.9	3476.4	1111.9	285.4	200.1	189.0	196.4	194.6	181.6	179.7
47.5°	7716.3	6593.3	3478.3	807.9	216.8	183.5	176.0	183.5	183.5	172.3	170.5
50°	8185.1	6893.5	3422.7	517.0	198.3	170.5	168.6	166.8	174.2	159.4	155.7
52.5°	8472.3	7112.2	3172.5	348.4	183.5	161.2	157.5	153.8	157.5	144.5	144.5
55°	8787.4	7384.6	2846.3	276.1	174.2	150.1	148.2	144.5	144.5	129.7	131.6
57.5°	9130.2	7606.9	2407.2	242.8	166.8	142.7	139.0	133.4	126.0	114.9	113.0
60°	9378.5	7653.3	1969.8	220.5	161.2	139.0	124.2	116.7	103.8	96.4	94.5
62.5°	9461.9	7677.4	1597.4	198.3	152.0	127.9	111.2	98.2	83.4	77.8	77.8
65°	9393.3	7399.4	1197.1	179.7	140.8	118.6	98.2	79.7	64.9	59.3	57.4
67.5°	8952.3	6887.9	871.0	161.2	124.2	107.5	85.2	64.9	51.9	46.3	46.3
70°	8149.9	6285.7	589.3	135.3	107.5	94.5	79.7	51.9	42.6	37.1	35.2
72.5°	7275.2	5329.5	376.2	109.3	83.4	74.1	57.4	44.5	35.2	27.8	27.8
75°	5753.8	4186.1	261.3	79.7	59.3	55.6	44.5	37.1	29.6	22.2	22.2
77.5°	4004.5	2720.3	205.7	61.2	40.8	37.1	33.4	27.8	24.1	18.5	16.7
80°	2321.9	1636.3	124.2	40.8	27.8	24.1	22.2	22.2	18.5	13.0	13.0
82.5°	1152.6	681.9	53.7	25.9	18.5	16.7	14.8	13.0	13.0	9.3	9.3
85°	226.1	116.7	20.4	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)