

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: P510262

Luminaire Tested: **VERD-M-CA4-240-727-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-240-727-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2700K, 1090mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26448 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

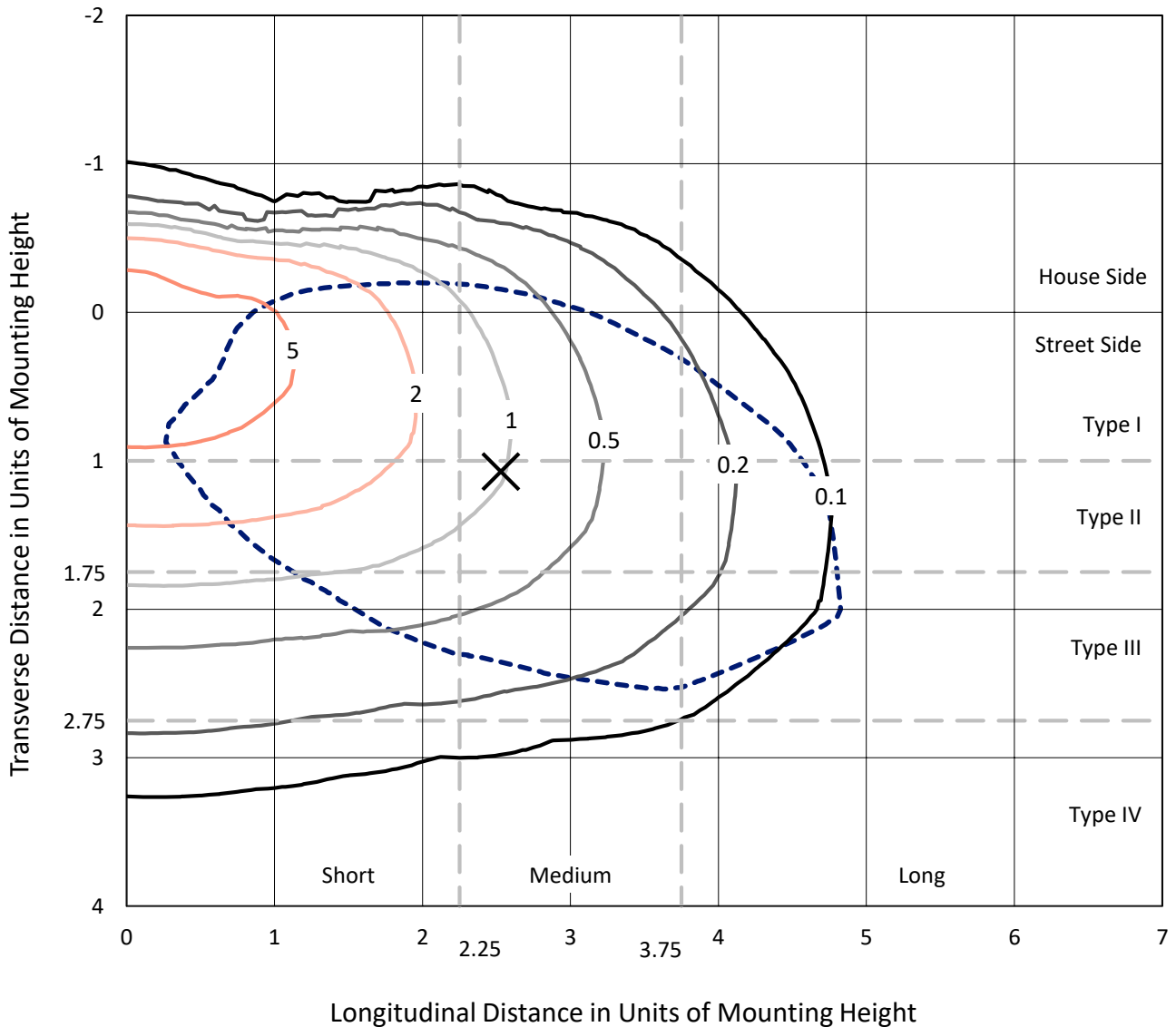
Input Watts (W): 242.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

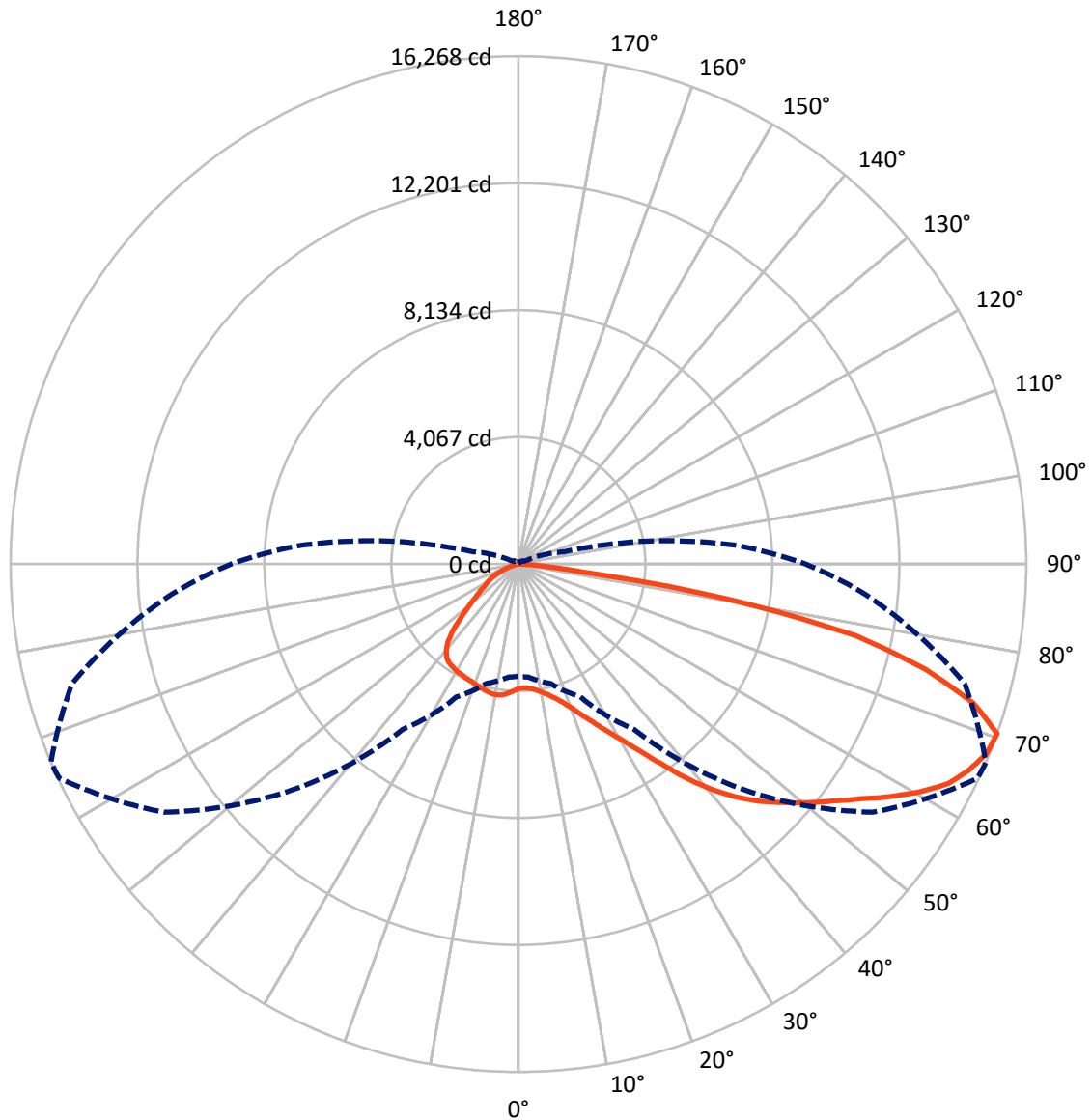
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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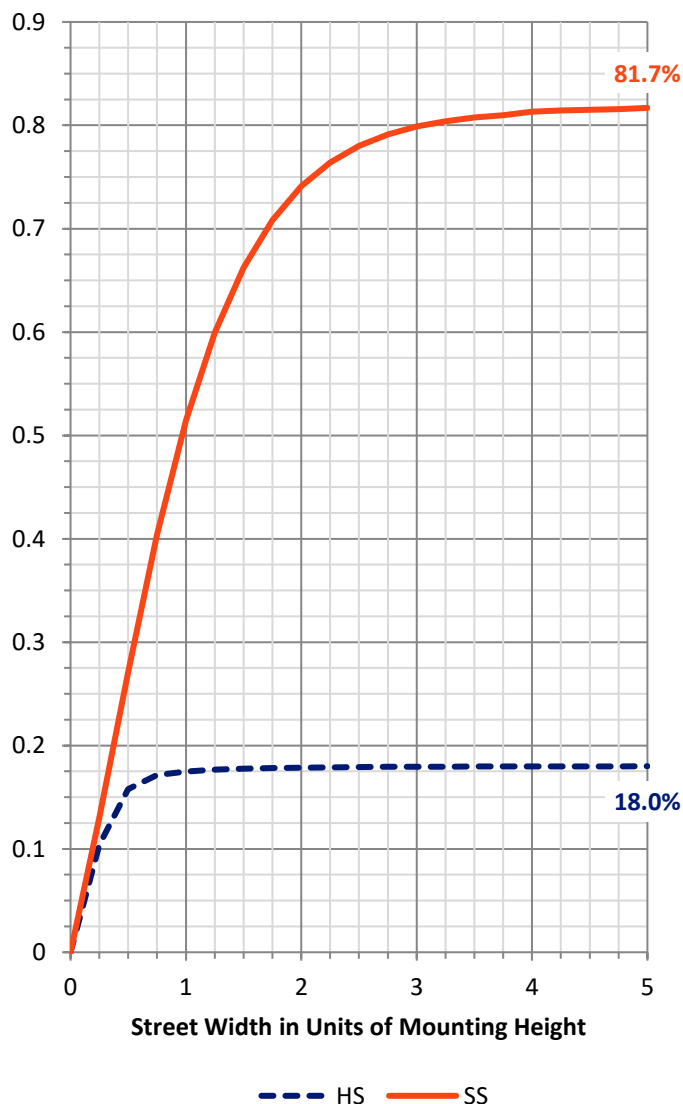
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4819.0	0.0	4819.0
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	21629.0	0.0	21629.0
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	26448.0	0.0	26448.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.4	1.5
10°-20°	1236.6	4.7
20°-30°	2145.5	8.1
30°-40°	3186.6	12.0
40°-50°	4371.8	16.5
50°-60°	5368.8	20.3
60°-70°	5755.9	21.8
70°-80°	3653.9	13.8
80°-90°	332.5	1.3
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°	26448.0	100.0
0°-180°	26448.0	100.0

**Coefficient of Utilization**



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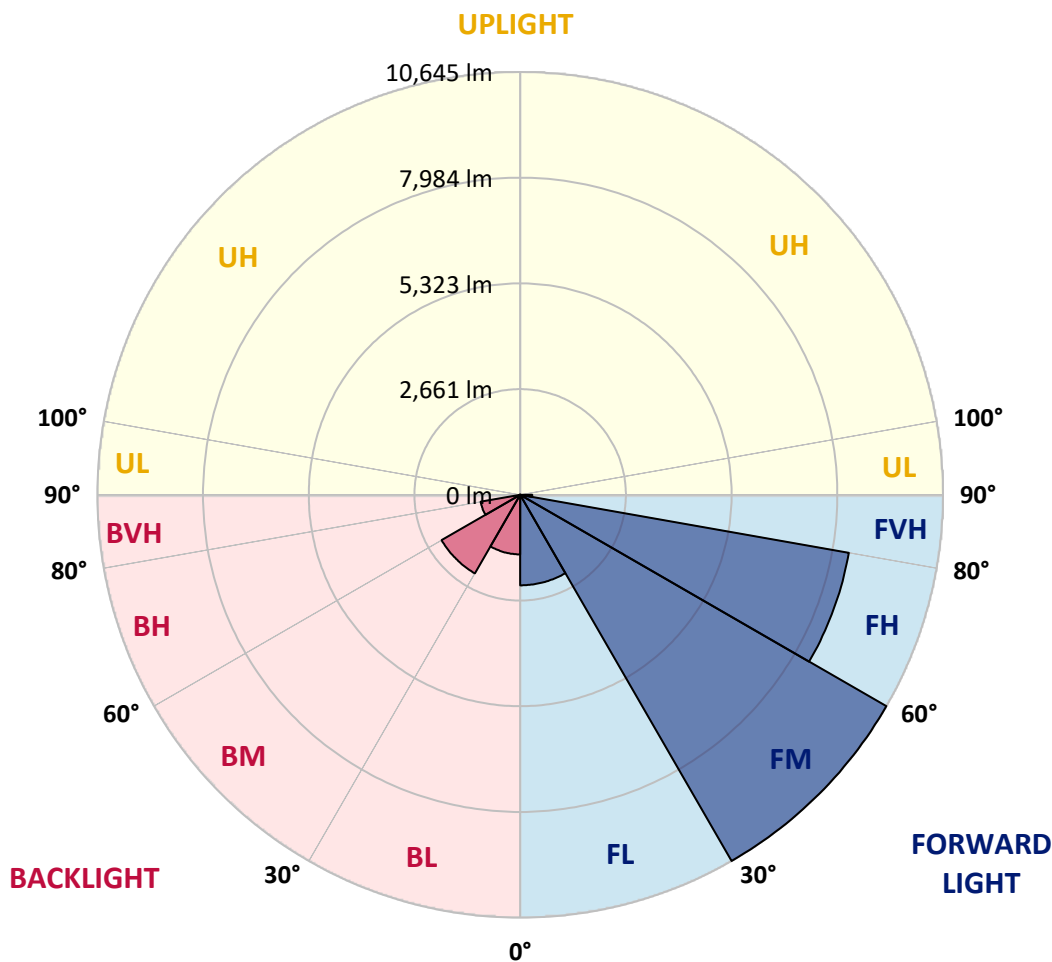
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2278.7	8.6			
FM (30°-60°)	10645.1	40.2			
FH (60°-80°)	8401.9	31.8			G4/12000
FVH (80°-90°)	303.3	1.1			G3/500
BL (0°-30°)	1499.8	5.7	B3/2500		
BM (30°-60°)	2282.1	8.6	B2/2500		
BH (60°-80°)	1008.0	3.8	B3/2500		G3/2500
BVH (80°-90°)	29.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4
2.5°	3942.5	3979.7	3957.9	3955.3	3980.9	3956.6	3973.3	3969.4	3966.9	3970.7	3997.6
5°	4046.2	4089.7	4060.3	4051.3	4065.4	4021.9	4018.0	4009.1	4006.5	4007.8	4046.2
7.5°	4190.8	4242.0	4230.5	4207.4	4199.8	4128.1	4115.3	4083.3	4073.1	4075.6	4114.0
10°	4418.6	4469.8	4446.7	4395.5	4363.5	4281.6	4235.6	4194.6	4174.2	4176.7	4217.7
12.5°	4710.3	4758.9	4720.6	4627.1	4609.2	4477.4	4405.8	4318.8	4304.7	4284.2	4327.7
15°	4985.4	5027.7	5009.8	4922.7	4874.1	4718.0	4586.2	4478.7	4465.9	4446.7	4445.4
17.5°	5290.0	5332.2	5299.0	5235.0	5171.0	4985.4	4843.4	4705.2	4671.9	4655.3	4595.2
20°	5615.0	5681.6	5675.2	5622.7	5545.9	5328.4	5127.5	4971.4	4935.5	4904.8	4778.1
22.5°	5950.3	6037.3	6018.1	5990.0	5958.0	5713.6	5479.4	5299.0	5272.1	5206.8	5007.2
25°	6321.4	6381.5	6367.4	6381.5	6359.8	6143.5	5887.6	5667.5	5631.7	5570.2	5264.4
27.5°	6681.0	6743.7	6768.0	6738.5	6752.6	6597.8	6294.5	6097.4	6062.9	5950.3	5574.1
30°	7006.0	7084.0	7118.6	7131.4	7178.7	7018.8	6794.8	6555.6	6544.0	6428.9	5982.3
32.5°	7265.7	7352.8	7437.2	7492.2	7567.7	7497.4	7274.7	7130.1	7131.4	7027.7	6595.2
35°	7453.9	7553.7	7676.5	7822.4	7981.1	7951.6	7819.8	7822.4	7842.9	7877.4	7377.1
37.5°	7662.4	7743.0	7887.6	8091.1	8333.0	8394.4	8376.5	8579.9	8679.7	8741.2	8064.2
40°	7786.6	7868.5	8048.9	8322.7	8674.6	8821.8	8986.9	9343.9	9474.4	9410.4	8651.6
42.5°	7649.6	7722.6	8036.1	8509.5	8954.9	9288.8	9584.4	10106.5	10201.2	9992.6	9146.8
45°	7471.8	7566.5	7896.6	8560.7	9203.1	9747.0	10206.3	10770.7	10841.0	10545.4	9584.4
47.5°	7325.9	7409.1	7794.2	8505.7	9432.2	10216.6	10752.7	11397.7	11415.6	11050.9	10037.4
50°	7139.1	7240.2	7642.0	8437.9	9570.4	10632.5	11253.1	11982.5	12022.1	11574.3	10421.3
52.5°	6943.3	7041.8	7457.7	8326.6	9670.2	10978.0	11772.6	12604.4	12608.2	12128.3	10830.8
55°	6654.1	6759.0	7219.7	8165.3	9700.9	11207.0	12294.7	13239.1	13278.7	12690.1	11201.9
57.5°	6348.3	6437.8	6933.0	7914.5	9587.0	11423.3	12830.9	13944.1	14052.9	13323.5	11520.5
60°	5942.6	6032.2	6555.6	7585.7	9345.1	11666.4	13445.1	14793.8	14805.3	13836.7	11752.1
62.5°	5506.3	5584.3	6065.5	7070.0	8970.2	11759.8	13972.3	15473.3	15472.0	14293.5	11867.3
65°	4988.0	5020.0	5510.1	6436.5	8388.0	11622.9	14205.2	15921.2	15877.7	14622.3	11828.9
67.5°	4373.8	4408.3	4779.4	5649.6	7543.4	11088.0	14101.5	16137.4	16180.9	14915.4	11662.6
70°	3595.8	3636.7	3960.5	4695.0	6467.3	10234.5	13858.4	16230.8	16268.0	14797.7	11149.4
72.5°	2654.0	2709.0	2907.3	3494.7	4908.7	8599.1	12732.3	15208.4	15228.9	13814.9	10080.9
75°	1648.2	1749.3	1936.1	2322.5	3185.0	6030.9	10883.3	13596.1	13468.1	12322.9	8341.9
77.5°	659.0	675.6	769.1	1087.7	1553.5	3140.2	7888.9	10807.8	11052.2	9859.6	5966.9
80°	383.9	381.3	403.1	506.7	666.7	1073.6	3068.6	6062.9	6757.7	5415.4	2684.7
82.5°	309.7	298.2	298.2	325.0	319.9	451.7	1005.8	1771.0	1942.5	1723.7	763.9
85°	162.5	158.7	129.2	160.0	160.0	225.2	386.4	501.6	529.8	461.9	286.6
87.5°	40.9	40.9	40.9	49.9	39.7	47.3	65.3	79.3	81.9	66.5	42.2
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°	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4
2.5°	4007.8	4019.3	4064.1	4057.7	4065.4	4065.4	4078.2	4092.3	4134.5	4110.2	4099.9
5°	4053.9	4076.9	4133.2	4153.7	4184.4	4188.2	4213.8	4222.8	4268.9	4243.3	4243.3
7.5°	4142.2	4169.0	4221.5	4229.2	4243.3	4218.9	4225.3	4197.2	4227.9	4197.2	4198.5
10°	4242.0	4259.9	4295.7	4244.5	4222.8	4165.2	4152.4	4083.3	4107.6	4067.9	4057.7
12.5°	4338.0	4331.6	4304.7	4213.8	4153.7	4059.0	4019.3	3925.9	3920.8	3868.3	3858.1
15°	4428.8	4384.0	4297.0	4156.2	4053.9	3922.1	3827.4	3725.0	3689.2	3629.0	3623.9
17.5°	4540.1	4463.4	4308.5	4101.2	3933.6	3741.6	3607.3	3492.1	3417.9	3362.9	3361.6
20°	4675.8	4558.0	4313.6	4038.5	3809.5	3563.8	3375.7	3229.8	3123.6	3054.5	3053.2
22.5°	4846.0	4686.0	4361.0	3966.9	3650.8	3348.8	3114.6	2862.5	2716.7	2575.9	2550.3
25°	5045.6	4815.3	4401.9	3929.7	3494.7	3124.9	2776.8	2408.3	2181.8	2069.2	2026.9
27.5°	5325.8	5030.2	4462.1	3859.4	3347.5	2848.5	2341.7	1939.9	1667.4	1571.4	1571.4
30°	5649.6	5301.5	4574.7	3817.1	3142.8	2460.7	1864.4	1433.2	1179.8	1035.2	1031.4
32.5°	6143.5	5625.3	4677.1	3726.3	2894.5	2038.5	1348.7	923.9	720.4	630.9	625.7
35°	6853.7	6242.0	4842.1	3635.4	2534.9	1517.6	856.1	529.8	410.8	359.6	357.0
37.5°	7537.0	6829.4	5197.9	3455.0	2024.4	953.3	474.7	305.8	250.8	244.4	241.9
40°	8018.2	7336.1	5448.7	3179.9	1438.3	505.5	275.1	221.4	217.5	215.0	213.7
42.5°	8542.8	7712.3	5626.5	2829.3	853.5	293.0	223.9	199.6	193.2	190.7	190.7
45°	8968.9	8074.5	5659.8	2327.6	430.0	241.9	204.7	181.7	174.0	179.1	180.4
47.5°	9361.8	8416.1	5547.2	1750.5	290.5	225.2	191.9	168.9	163.8	176.6	176.6
50°	9697.0	8705.3	5288.7	1306.5	272.6	212.4	179.1	156.1	154.8	166.4	167.6
52.5°	10031.0	8938.2	4881.8	986.6	258.5	198.3	166.4	144.6	140.8	148.4	149.7
55°	10295.9	9021.4	4579.8	734.5	248.2	185.5	154.8	133.1	124.1	122.8	125.4
57.5°	10441.8	8948.5	4284.2	540.0	236.7	174.0	143.3	117.7	103.7	103.7	103.7
60°	10444.4	8860.2	3968.1	427.4	223.9	161.2	130.5	101.1	87.0	84.5	84.5
62.5°	10416.2	8702.8	3508.7	371.1	209.9	151.0	113.9	85.7	75.5	71.7	71.7
65°	10292.1	8405.9	2952.1	317.3	193.2	143.3	97.3	76.8	67.8	62.7	62.7
67.5°	9905.6	7849.3	2272.6	276.4	177.9	126.7	88.3	69.1	60.1	55.0	53.7
70°	9196.7	6949.7	1499.7	235.5	162.5	112.6	80.6	62.7	53.7	48.6	47.3
72.5°	8007.9	5656.0	753.7	199.6	139.5	103.7	72.9	55.0	46.1	40.9	40.9
75°	6275.3	3925.9	410.8	158.7	110.0	90.9	64.0	46.1	39.7	35.8	35.8
77.5°	3847.9	1946.3	280.2	122.8	83.2	74.2	51.2	38.4	34.6	33.3	33.3
80°	1403.8	637.3	188.1	87.0	62.7	57.6	40.9	33.3	32.0	32.0	32.0
82.5°	506.7	323.7	126.7	58.9	39.7	43.5	33.3	28.2	26.9	28.2	29.4
85°	208.6	142.0	46.1	33.3	21.8	23.0	20.5	19.2	20.5	21.8	21.8
87.5°	32.0	28.2	16.6	16.6	12.8	11.5	9.0	10.2	12.8	15.4	15.4
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)