

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: P510055

Luminaire Tested: **VERD-M-CA4-190-760-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-190-760-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 870mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27618 lumens  
Efficiency: N/A  
Efficacy: 143.0 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

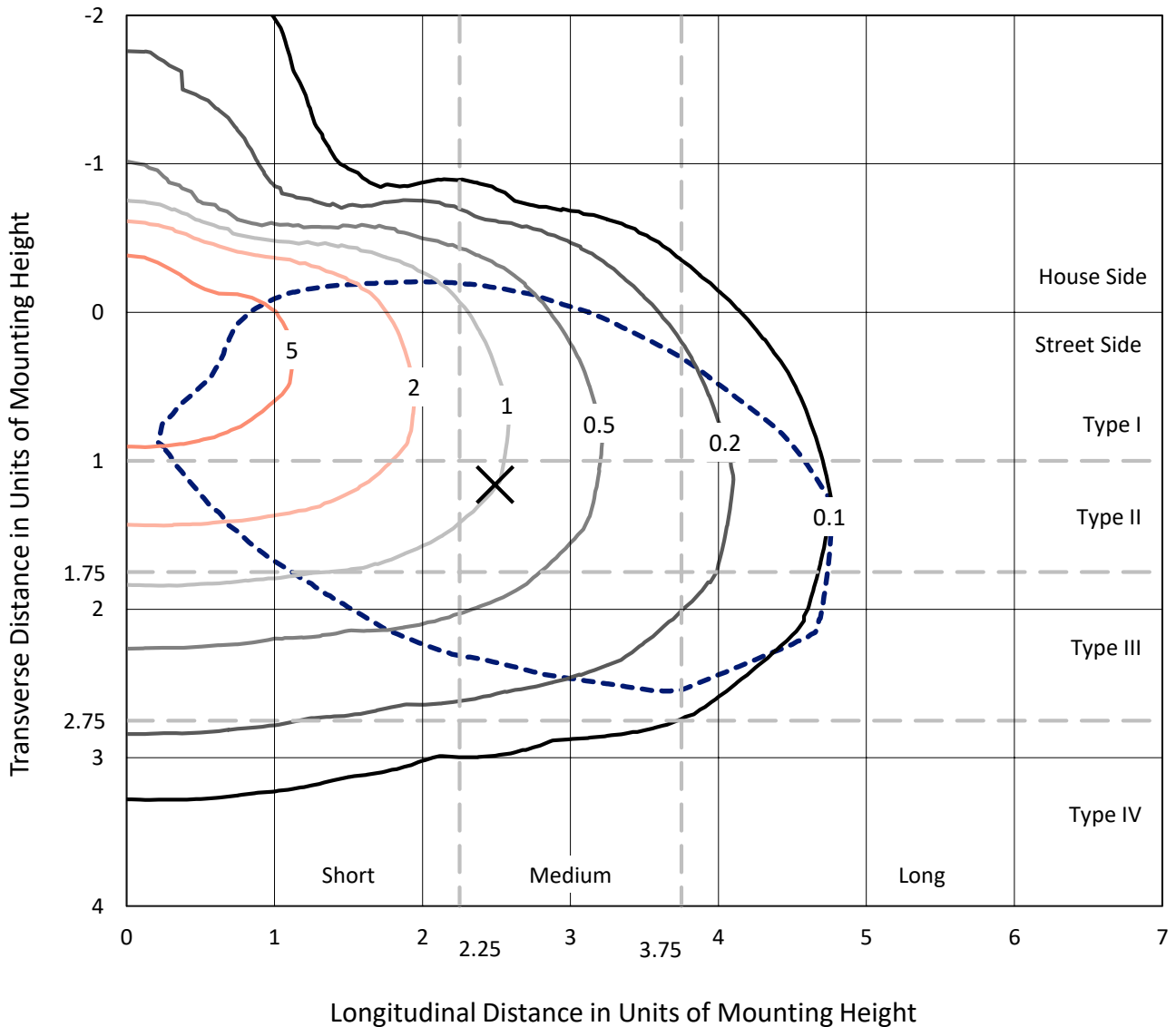
Input Watts (W): 193.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

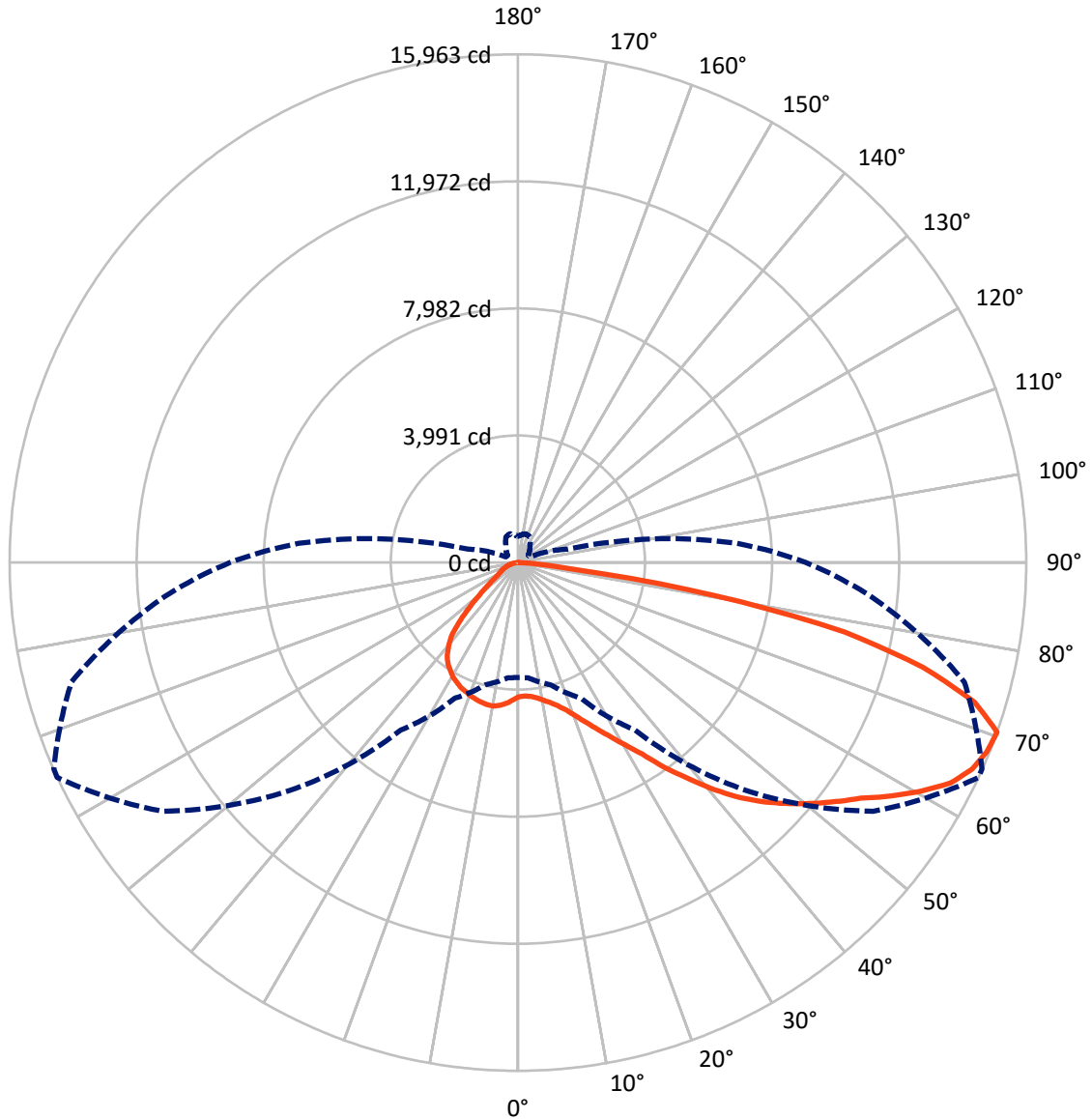
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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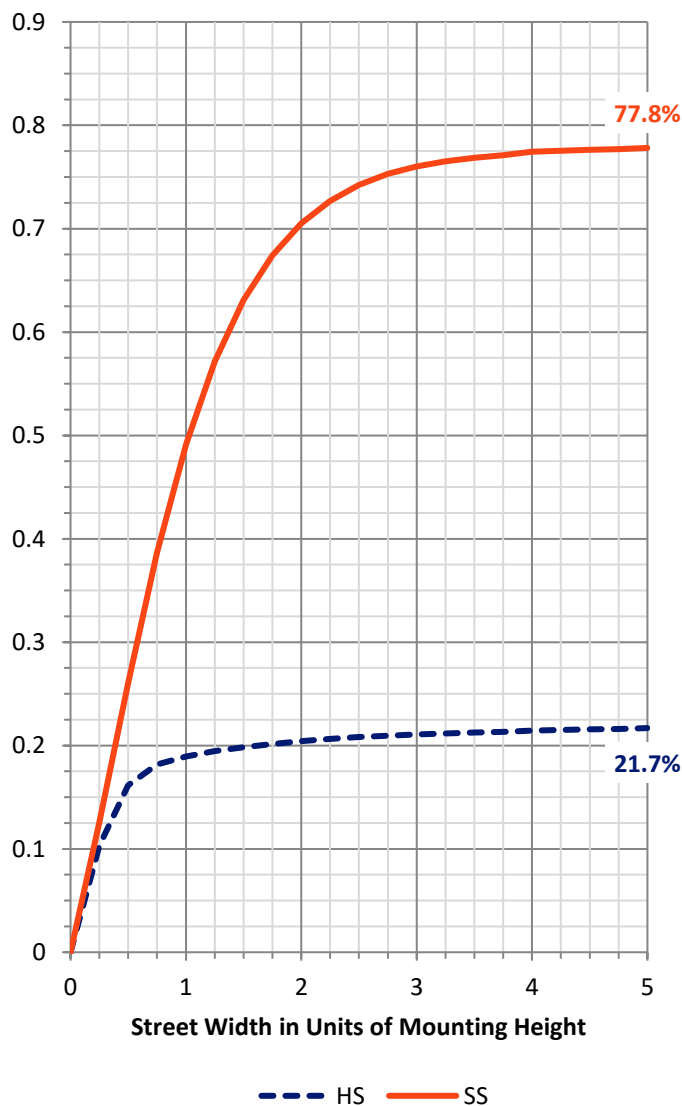
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6092.3	0.0	6092.3
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	21525.7	0.0	21525.7
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	27618.0	0.0	27618.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.0	1.5
10°-20°	1336.9	4.8
20°-30°	2319.2	8.4
30°-40°	3372.0	12.2
40°-50°	4505.1	16.3
50°-60°	5487.6	19.9
60°-70°	5915.8	21.4
70°-80°	3835.4	13.9
80°-90°	423.0	1.5
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°	27618.0	100.0
0°-180°	27618.0	100.0

**Coefficient of Utilization**



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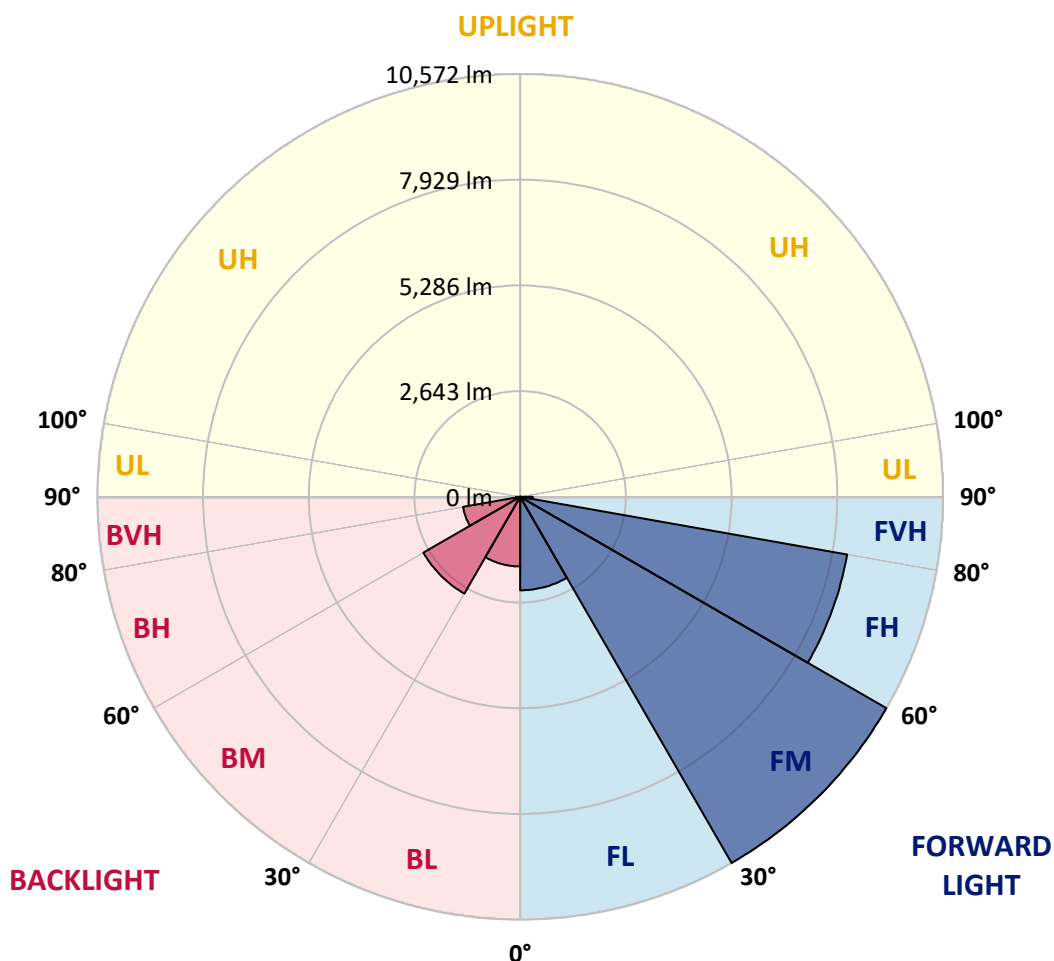
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2337.3	8.5			
FM	(30°-60°)	10571.7	38.3			
FH	(60°-80°)	8301.3	30.1			G4/12000
FVH	(80°-90°)	315.5	1.1			G3/500
BL	(0°-30°)	1741.8	6.3	B3/2500		
BM	(30°-60°)	2793.1	10.1	B3/5000		
BH	(60°-80°)	1449.9	5.2	B3/2500		G3/2500
BVH	(80°-90°)	107.5	0.4			G2/225
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°	66°	75°	85°
0°	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5
2.5°	4154.2	4191.6	4171.7	4172.9	4201.5	4177.9	4194.1	4194.1	4192.8	4201.5	4227.7
5°	4256.3	4296.2	4272.5	4257.6	4263.8	4233.9	4227.7	4222.7	4219.0	4228.9	4272.5
7.5°	4405.8	4451.8	4425.7	4412.0	4404.5	4336.0	4323.6	4290.0	4286.2	4294.9	4334.8
10°	4603.8	4666.0	4634.9	4596.3	4570.1	4490.4	4426.9	4397.0	4388.3	4383.3	4424.4
12.5°	4888.9	4943.7	4907.6	4835.4	4800.5	4672.2	4596.3	4511.6	4510.4	4492.9	4524.1
15°	5159.1	5216.4	5170.4	5099.4	5053.3	4880.2	4768.1	4663.5	4651.1	4631.2	4641.1
17.5°	5420.7	5490.4	5458.0	5393.3	5337.2	5144.2	4997.3	4862.8	4849.1	4817.9	4771.9
20°	5745.7	5809.2	5800.5	5741.9	5679.7	5460.5	5299.9	5126.8	5111.8	5055.8	4952.4
22.5°	6070.7	6149.1	6100.6	6090.6	6055.7	5837.8	5613.7	5438.1	5423.1	5349.7	5160.4
25°	6377.0	6446.8	6464.2	6448.0	6451.7	6236.3	6013.4	5793.0	5778.0	5678.4	5404.5
27.5°	6739.4	6805.4	6810.4	6814.1	6857.7	6678.4	6416.9	6190.2	6180.3	6068.2	5720.8
30°	7017.1	7126.7	7149.1	7170.3	7192.7	7096.8	6858.9	6647.2	6627.3	6505.3	6076.9
32.5°	7271.1	7353.3	7433.0	7476.6	7577.5	7491.5	7296.0	7165.3	7166.5	7109.2	6644.8
35°	7467.9	7558.8	7659.6	7819.0	7966.0	7929.9	7868.9	7876.3	7877.6	7902.5	7410.6
37.5°	7655.9	7738.1	7865.1	8055.6	8314.7	8362.0	8403.1	8558.7	8613.5	8730.6	8117.9
40°	7769.2	7856.4	8020.8	8284.8	8621.0	8791.6	8916.1	9315.9	9410.5	9411.7	8664.6
42.5°	7603.6	7699.5	7993.4	8462.8	8897.4	9216.2	9543.7	10048.1	10116.6	9963.4	9131.6
45°	7455.4	7543.8	7860.1	8490.2	9114.1	9669.5	10125.3	10709.3	10759.1	10450.3	9562.4
47.5°	7312.2	7382.0	7748.1	8433.0	9335.8	10124.0	10620.9	11307.0	11343.2	10983.3	9983.3
50°	7114.2	7197.7	7586.2	8365.7	9469.0	10513.8	11106.6	11897.3	11892.3	11462.7	10364.4
52.5°	6897.5	6979.7	7396.9	8242.4	9556.2	10816.4	11659.5	12475.1	12478.8	12013.1	10741.7
55°	6624.8	6725.7	7165.3	8075.6	9577.4	11054.3	12138.9	13067.9	13128.9	12574.7	11105.3
57.5°	6298.6	6399.4	6880.1	7831.5	9451.6	11253.5	12650.7	13825.0	13857.4	13148.8	11376.8
60°	5918.8	6040.8	6500.3	7505.2	9211.3	11485.1	13270.8	14567.2	14578.4	13661.8	11603.4
62.5°	5479.2	5566.4	6049.5	7032.0	8827.7	11577.3	13783.9	15248.3	15250.8	14049.1	11705.5
65°	5003.5	5037.1	5441.8	6388.2	8268.6	11426.6	13980.6	15663.0	15651.8	14389.1	11654.5
67.5°	4436.9	4420.7	4852.8	5592.5	7561.3	10924.7	13884.7	15875.9	15909.6	14650.6	11490.1
70°	3607.5	3631.2	3974.9	4702.1	6419.4	10119.1	13620.7	15963.1	15954.4	14519.8	10960.9
72.5°	2738.3	2780.7	3029.7	3575.2	4982.3	8510.2	12490.0	14999.3	15016.7	13598.3	10008.2
75°	1693.6	1815.6	2026.1	2358.5	3121.9	6096.8	10630.9	13138.8	13227.2	11998.2	8241.2
77.5°	742.2	770.8	876.7	1136.9	1632.5	3060.9	7858.9	10492.6	10754.1	9703.1	5944.9
80°	459.5	459.5	489.4	570.3	728.5	1138.2	3149.3	6264.9	5999.7	5550.2	2622.5
82.5°	382.3	382.3	397.2	410.9	373.6	481.9	1053.5	1755.8	1881.6	1523.0	805.7
85°	208.0	212.9	214.2	217.9	214.2	260.3	414.7	519.3	525.5	475.7	286.4
87.5°	76.0	80.9	78.5	73.5	66.0	62.3	79.7	80.9	83.4	77.2	42.3
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°	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5
2.5°	4245.1	4262.6	4308.6	4312.4	4329.8	4336.0	4351.0	4372.1	4409.5	4390.8	4369.6
5°	4293.7	4316.1	4389.6	4426.9	4475.5	4504.1	4551.5	4575.1	4632.4	4613.7	4611.2
7.5°	4367.2	4414.5	4480.5	4516.6	4580.1	4598.8	4633.6	4633.6	4681.0	4657.3	4651.1
10°	4466.8	4497.9	4567.6	4570.1	4606.2	4606.2	4647.3	4621.2	4667.3	4639.9	4638.6
12.5°	4546.5	4563.9	4590.1	4568.9	4587.6	4566.4	4587.6	4556.4	4585.1	4550.2	4542.7
15°	4636.1	4612.5	4586.3	4536.5	4520.3	4486.7	4469.3	4436.9	4439.4	4399.5	4393.3
17.5°	4737.0	4676.0	4600.0	4491.7	4431.9	4346.0	4309.9	4263.8	4237.6	4201.5	4217.7
20°	4859.0	4768.1	4610.0	4441.9	4314.9	4184.1	4099.4	4024.7	4018.5	3986.1	3968.7
22.5°	5017.2	4871.5	4653.6	4370.9	4166.7	3979.9	3854.1	3729.6	3717.1	3651.1	3626.2
25°	5212.7	5008.5	4676.0	4316.1	3993.6	3737.1	3539.1	3366.0	3282.5	3212.8	3196.6
27.5°	5475.4	5210.2	4720.8	4217.7	3789.4	3435.7	3151.8	2922.6	2823.0	2788.2	2752.0
30°	5783.0	5456.8	4804.2	4135.5	3547.8	3050.9	2704.7	2432.0	2323.7	2268.9	2251.4
32.5°	6236.3	5768.1	4881.5	3999.8	3255.1	2627.5	2176.7	1875.4	1809.4	1799.4	1823.1
35°	6896.3	6353.4	4993.5	3874.0	2911.4	2156.8	1658.7	1461.9	1448.2	1450.7	1450.7
37.5°	7583.7	6911.2	5326.0	3688.5	2490.5	1623.8	1262.7	1155.6	1160.6	1160.6	1159.3
40°	8032.0	7359.5	5567.6	3425.7	1967.5	1164.3	936.4	855.5	890.4	937.7	962.6
42.5°	8526.4	7766.7	5734.5	3123.1	1368.6	823.1	681.2	709.8	811.9	884.1	894.1
45°	8947.3	8112.9	5753.1	2652.4	881.7	625.1	621.4	703.6	821.9	900.3	906.6
47.5°	9308.4	8428.0	5636.1	2114.5	642.6	584.0	621.4	724.7	831.8	880.4	885.4
50°	9658.3	8678.3	5360.9	1625.1	585.3	569.1	628.9	728.5	795.7	829.3	824.4
52.5°	9969.6	8906.2	4962.4	1267.7	562.9	559.1	635.1	724.7	767.1	764.6	760.9
55°	10206.2	8973.4	4651.1	988.7	544.2	552.9	638.8	728.5	759.6	737.2	732.2
57.5°	10328.3	8890.0	4389.6	785.8	524.3	546.7	648.8	727.2	782.0	824.4	821.9
60°	10325.8	8795.3	4067.0	677.4	504.3	541.7	665.0	789.5	987.5	1027.3	1028.6
62.5°	10285.9	8633.4	3625.0	612.7	481.9	544.2	676.2	896.6	1124.5	1092.1	1066.0
65°	10153.9	8329.6	3032.2	542.9	453.3	546.7	671.2	970.1	1031.1	915.3	899.1
67.5°	9786.6	7741.8	2381.0	485.7	427.1	533.0	679.9	901.6	947.6	874.2	850.5
70°	9040.7	6913.7	1613.9	418.4	397.2	513.1	660.0	886.6	935.2	860.5	825.6
72.5°	7858.9	5548.9	943.9	359.9	353.7	472.0	650.0	896.6	950.1	866.7	821.9
75°	6116.8	3890.2	545.4	291.4	295.1	435.8	596.5	845.5	941.4	876.7	818.1
77.5°	3948.7	1889.1	384.8	232.9	230.4	343.7	484.4	739.7	906.6	885.4	836.8
80°	1413.4	689.9	270.2	173.1	168.1	232.9	372.3	595.2	767.1	794.5	794.5
82.5°	508.1	346.2	173.1	105.8	104.6	148.2	277.7	452.0	556.6	627.6	645.0
85°	212.9	150.7	84.7	53.5	43.6	57.3	143.2	280.2	377.3	406.0	442.1
87.5°	31.1	27.4	22.4	17.4	14.9	14.9	18.7	80.9	134.5	193.0	239.1
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)