

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: P510269

Luminaire Tested: **VERD-M-CA4-240-730-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510269  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-240-730-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 3000K, 1090mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32836 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

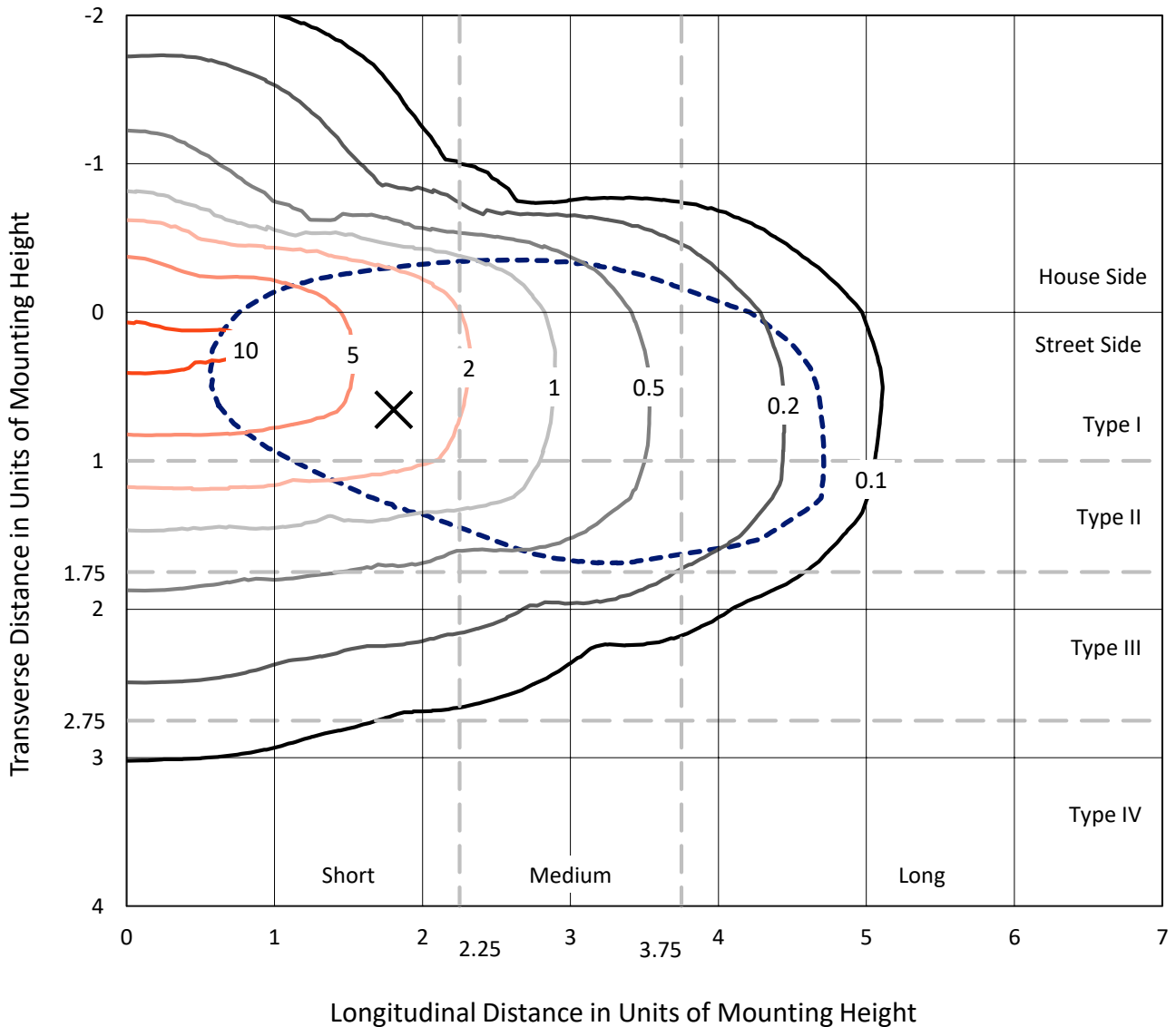
Input Watts (W): 242.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

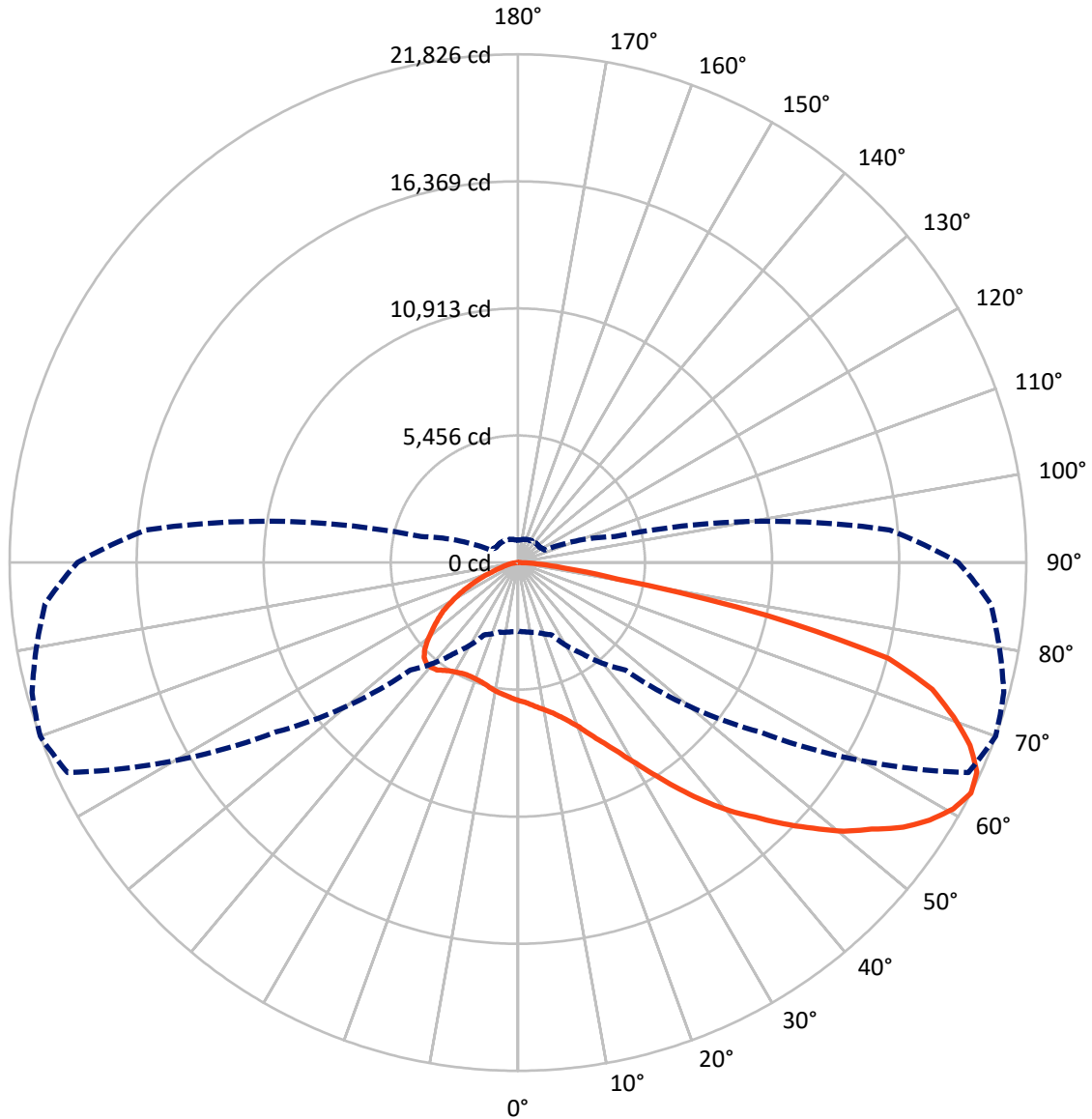
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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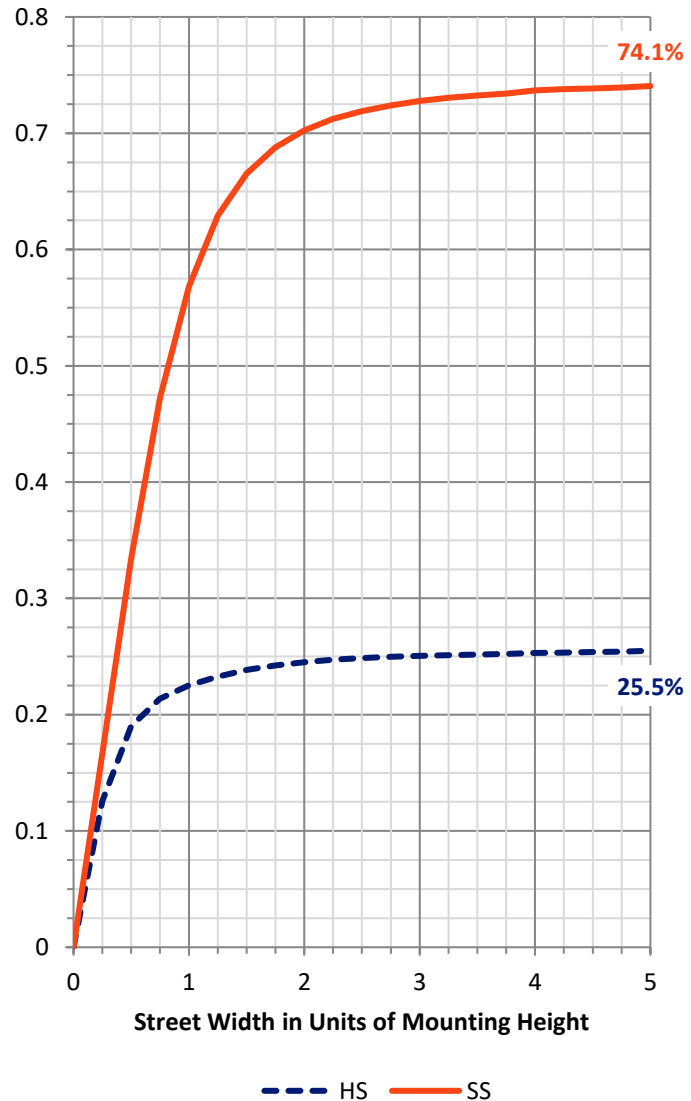
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8501.4	0.0	8501.4
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	24334.6	0.0	24334.6
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	32836.0	0.0	32836.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.2	1.7
10°-20°	1728.7	5.3
20°-30°	2933.8	8.9
30°-40°	4245.1	12.9
40°-50°	5570.6	17.0
50°-60°	6509.1	19.8
60°-70°	6532.2	19.9
70°-80°	4162.4	12.7
80°-90°	585.0	1.8
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°	32836.0	100.0
0°-180°	32836.0	100.0



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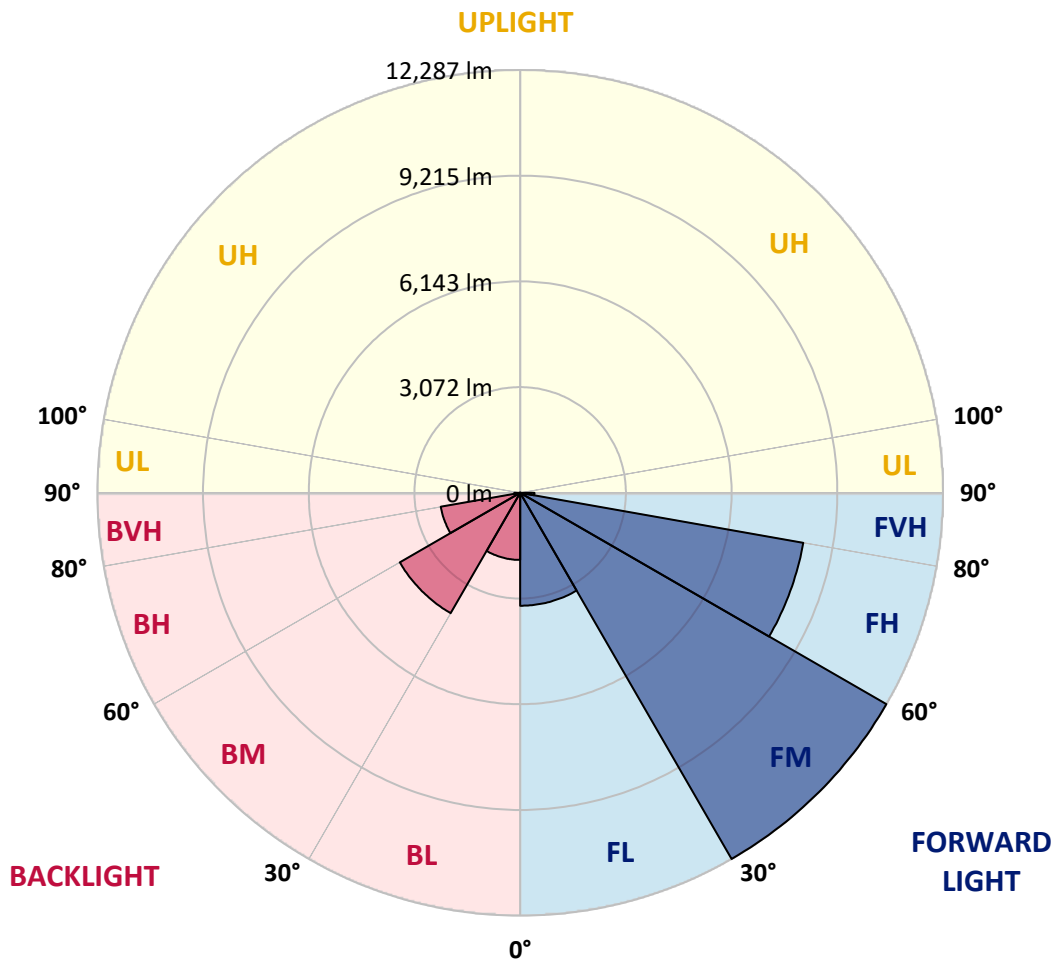
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3282.0	10.0			
FM (30°-60°)	12286.9	37.4			
FH (60°-80°)	8353.1	25.4			G4/12000
FVH (80°-90°)	412.6	1.3			G3/500
BL (0°-30°)	1949.8	5.9	B3/2500		
BM (30°-60°)	4037.9	12.3	B3/5000		
BH (60°-80°)	2341.4	7.1	B3/2500		G3/2500
BVH (80°-90°)	172.3	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5926.4	5926.4	5926.4	5926.4	5926.4	5926.4	5926.4	5926.4	5926.4	5926.4	5926.4
2.5°	6153.5	6218.8	6209.9	6169.8	6198.0	6120.8	6092.6	6049.6	6005.1	5990.2	5965.0
5°	6444.3	6530.4	6514.0	6460.6	6459.1	6349.3	6287.0	6205.4	6137.1	6083.7	6005.1
7.5°	6715.8	6815.3	6800.4	6748.5	6745.5	6619.4	6490.3	6362.7	6284.0	6215.8	6071.9
10°	7003.7	7079.4	7066.0	6999.3	6985.9	6862.7	6711.4	6551.1	6435.4	6340.4	6135.7
12.5°	7269.3	7349.4	7355.4	7272.3	7251.5	7119.4	6987.4	6775.2	6625.3	6517.0	6215.8
15°	7517.1	7612.1	7594.3	7511.2	7488.9	7355.4	7226.3	7030.4	6874.6	6723.3	6346.4
17.5°	7716.0	7806.5	7784.2	7747.1	7735.2	7631.4	7524.5	7312.3	7174.4	6980.0	6548.2
20°	7852.5	7937.0	7945.9	7935.6	8003.8	7905.9	7846.5	7696.7	7545.3	7370.2	6824.2
22.5°	7905.9	8006.8	8092.8	8159.6	8300.6	8285.7	8275.4	8189.3	8040.9	7785.7	7189.2
25°	7922.2	8023.1	8156.7	8321.4	8573.6	8664.1	8729.4	8750.2	8588.4	8386.6	7643.2
27.5°	7925.2	8033.5	8170.0	8435.6	8819.9	9093.0	9248.8	9321.5	9230.9	9070.7	8260.5
30°	7862.9	7974.1	8149.2	8503.9	9012.8	9460.9	9719.1	10041.1	10002.5	9867.5	9033.6
32.5°	7683.3	7784.2	8026.1	8492.0	9204.2	9837.8	10240.0	10797.9	10928.5	10840.9	9925.4
35°	7361.3	7484.5	7797.6	8394.1	9308.1	10204.3	10852.8	11720.8	11956.8	11962.7	11019.0
37.5°	7036.4	7129.8	7497.8	8210.1	9366.0	10529.3	11434.4	12645.3	12988.0	12995.4	11928.6
40°	6690.6	6776.7	7181.8	7963.8	9306.6	10784.5	11976.0	13534.1	14025.2	13979.2	12821.8
42.5°	6242.5	6337.5	6739.6	7628.4	9158.2	10981.9	12526.6	14467.4	14939.3	14991.2	13753.7
45°	5859.7	5935.3	6287.0	7104.6	8886.7	11088.7	13042.9	15463.1	16003.2	15948.3	14747.9
47.5°	5387.8	5500.6	5876.0	6678.8	8398.5	11062.0	13537.0	16448.3	17049.3	16998.8	15610.0
50°	4156.2	4286.8	5159.3	6232.1	7775.3	10852.8	13985.2	17390.6	18136.9	18004.9	16522.5
52.5°	3774.9	3812.0	4159.2	5718.7	7161.0	10378.0	14314.6	18580.6	19022.8	18970.9	17447.0
55°	3541.9	3613.1	3771.9	4711.2	6609.0	9606.4	14543.1	19574.8	20073.3	19830.0	18283.8
57.5°	3337.1	3387.6	3576.0	4033.1	5973.9	8543.9	14476.3	20413.1	20858.3	20518.5	19101.4
60°	3119.0	3151.7	3340.1	3681.4	5288.4	7370.2	13798.2	21278.2	21475.6	21164.0	19792.9
62.5°	2949.9	2981.0	3093.8	3421.7	4754.2	6530.4	12688.3	21339.1	21825.8	21598.7	20380.5
65°	2733.2	2754.0	2895.0	3153.2	4258.6	6030.3	11710.4	20767.8	21656.6	21600.2	20606.0
67.5°	2494.3	2519.6	2653.1	2835.6	3625.0	5441.2	10075.3	20459.1	20941.4	20996.3	20183.1
70°	2213.9	2231.7	2369.7	2501.7	3101.2	4776.5	8009.8	19276.5	19838.9	19837.4	18877.4
72.5°	1911.2	1909.7	2046.2	2185.7	2598.2	4012.3	6270.7	17114.6	18602.9	18491.6	17019.6
75°	1575.8	1598.1	1730.2	1840.0	2162.0	3252.6	4366.9	12397.5	16423.1	16575.9	14688.5
77.5°	1007.5	1022.4	1096.6	1209.3	1512.0	2485.4	2849.0	6889.5	10965.6	13226.9	11562.1
80°	736.0	743.4	808.7	874.0	1006.0	1513.5	1448.2	2994.4	4346.2	6493.3	7092.7
82.5°	501.5	503.0	555.0	569.8	577.2	682.6	687.0	1457.1	2070.0	2437.9	3132.4
85°	332.4	276.0	215.2	284.9	292.3	250.8	244.8	657.3	1026.8	1231.6	1160.4
87.5°	74.2	72.7	84.6	86.1	83.1	71.2	59.4	100.9	154.3	152.8	195.9
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°	5926.4	5926.4	5926.4	5926.4	5926.4	5926.4	5926.4	5926.4	5926.4	5926.4	5926.4
2.5°	5941.3	5933.9	5892.3	5804.8	5745.4	5684.6	5650.5	5629.7	5637.1	5603.0	5588.1
5°	5956.1	5919.0	5801.8	5697.9	5604.5	5499.1	5411.6	5399.7	5417.5	5386.3	5368.5
7.5°	5994.7	5916.1	5766.2	5588.1	5432.3	5332.9	5206.8	5143.0	5138.5	5107.4	5113.3
10°	6017.0	5914.6	5714.3	5499.1	5316.6	5140.0	5005.0	4933.8	4929.3	4884.8	4874.4
12.5°	6077.8	5930.9	5653.4	5390.8	5187.5	4951.6	4809.1	4743.8	4736.4	4674.1	4650.3
15°	6171.3	5968.0	5589.6	5264.7	5002.0	4780.9	4610.3	4522.7	4509.4	4436.7	4411.4
17.5°	6319.7	6073.3	5570.3	5150.4	4840.3	4598.4	4398.1	4303.1	4226.0	4185.9	4151.8
20°	6520.0	6203.9	5592.6	5043.6	4637.0	4358.0	4108.7	3984.1	3930.7	3865.4	3869.8
22.5°	6804.9	6408.7	5631.2	4960.5	4453.0	4101.3	3820.9	3681.4	3585.0	3530.0	3533.0
25°	7205.5	6717.3	5706.8	4881.8	4252.7	3820.9	3490.0	3295.6	3197.7	3162.1	3125.0
27.5°	7711.5	7086.8	5886.4	4785.4	4015.3	3503.3	3136.8	2909.8	2810.4	2757.0	2749.5
30°	8361.4	7572.0	6097.1	4714.1	3766.0	3107.2	2699.1	2519.6	2432.0	2356.3	2320.7
32.5°	9153.8	8257.6	6331.5	4642.9	3457.3	2663.5	2294.0	2156.0	2016.5	1920.1	1924.5
35°	10073.8	9003.9	6680.2	4552.4	3095.3	2249.5	1994.3	1816.2	1685.6	1621.8	1592.2
37.5°	10941.8	9769.6	7089.8	4460.4	2690.2	1980.9	1699.0	1534.3	1433.4	1384.4	1394.8
40°	11820.2	10559.0	7442.9	4234.9	2236.1	1737.6	1406.7	1313.2	1273.1	1234.6	1239.0
42.5°	12606.7	11188.1	7701.1	3984.1	1918.6	1458.6	1198.9	1219.7	1243.5	1221.2	1215.3
45°	13425.8	11924.1	7928.1	3556.8	1653.0	1239.0	1147.0	1204.9	1256.8	1253.8	1246.4
47.5°	14247.8	12606.7	7950.4	2989.9	1411.1	1164.8	1145.5	1188.6	1256.8	1268.7	1259.8
50°	15095.1	13321.9	7819.8	2322.2	1308.7	1173.7	1147.0	1154.4	1230.1	1243.5	1239.0
52.5°	16034.3	14095.0	7497.8	1765.8	1268.7	1188.6	1151.5	1141.1	1184.1	1207.8	1212.3
55°	16897.9	14709.3	6893.9	1559.5	1239.0	1190.0	1184.1	1150.0	1151.5	1139.6	1169.3
57.5°	17623.5	15295.4	6208.4	1446.7	1212.3	1176.7	1198.9	1135.1	1117.3	1068.4	1056.5
60°	18374.4	15771.7	5243.9	1369.6	1181.1	1160.4	1161.8	1109.9	1065.4	994.2	973.4
62.5°	18907.1	16024.0	4307.6	1279.1	1138.1	1135.1	1112.9	1074.3	1034.2	971.9	963.0
65°	19061.4	15890.4	3309.0	1184.1	1081.7	1093.6	1053.5	1000.1	833.9	756.8	756.8
67.5°	18550.9	15068.4	2449.8	1074.3	1013.5	1037.2	958.6	787.9	701.9	655.9	663.3
70°	17151.7	13740.3	1595.1	914.0	915.5	934.8	790.9	709.3	627.7	599.5	614.3
72.5°	15282.0	11771.3	1052.0	728.6	771.6	739.0	722.6	652.9	580.2	547.5	557.9
75°	12593.3	9294.8	730.0	572.8	500.1	630.6	642.5	549.0	492.6	598.0	621.7
77.5°	9949.1	6460.6	602.4	400.6	369.5	465.9	514.9	509.0	814.6	957.1	946.7
80°	5916.1	3720.0	491.2	277.5	261.2	299.7	405.1	584.6	912.6	685.5	652.9
82.5°	2682.8	1691.6	261.2	145.4	170.6	198.8	302.7	727.1	598.0	439.2	414.0
85°	1047.6	552.0	103.9	63.8	59.4	74.2	138.0	350.2	240.4	194.4	194.4
87.5°	135.0	99.4	29.7	22.3	19.3	23.7	44.5	194.4	112.8	95.0	92.0
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)