

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: P510297

Luminaire Tested: **VERD-M-CA4-240-760-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510297  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-240-760-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 1090mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33281 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

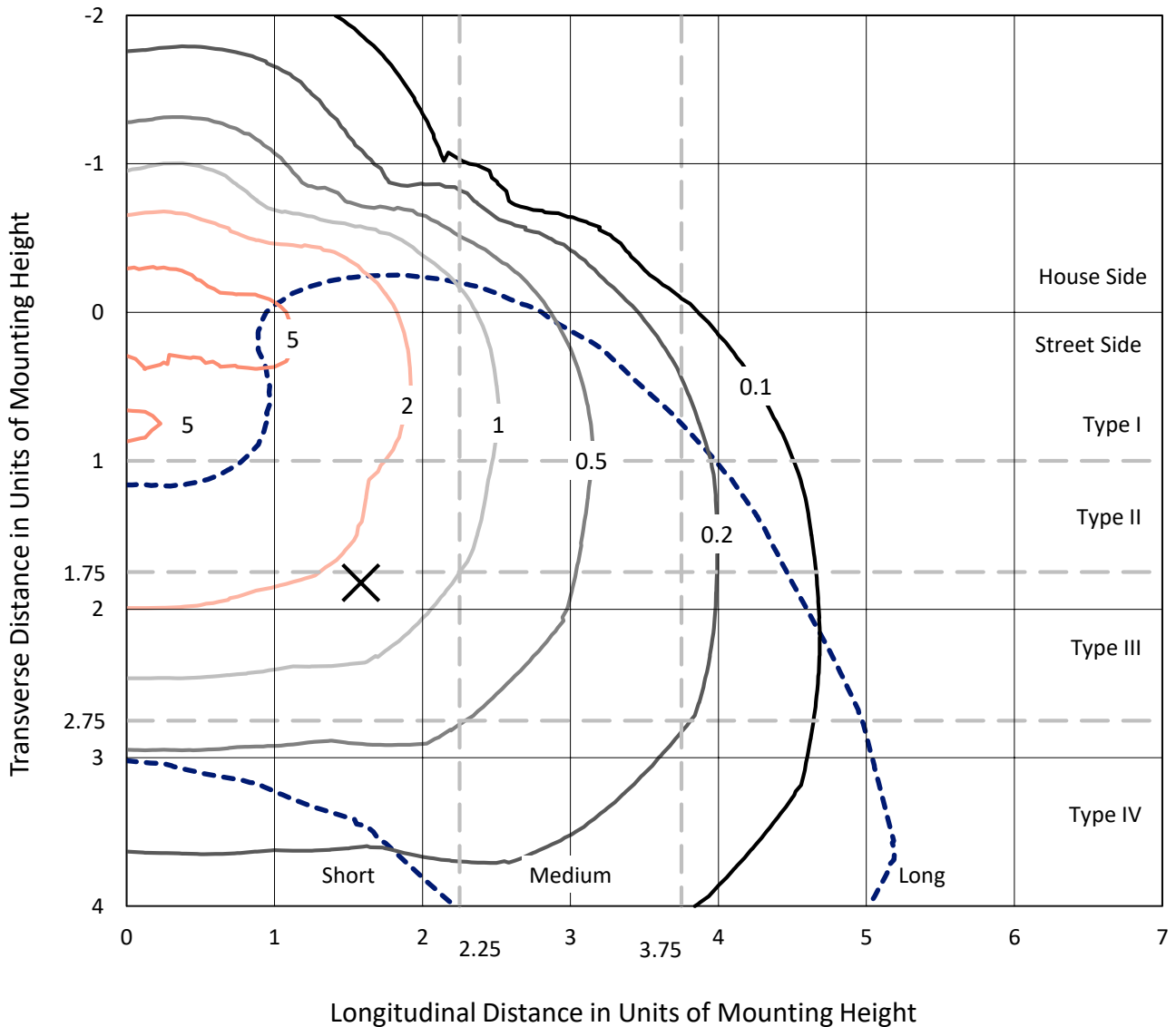
Input Watts (W): 242.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P510297  
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### Iso-Footcandle Lines of Horizontal Illumination

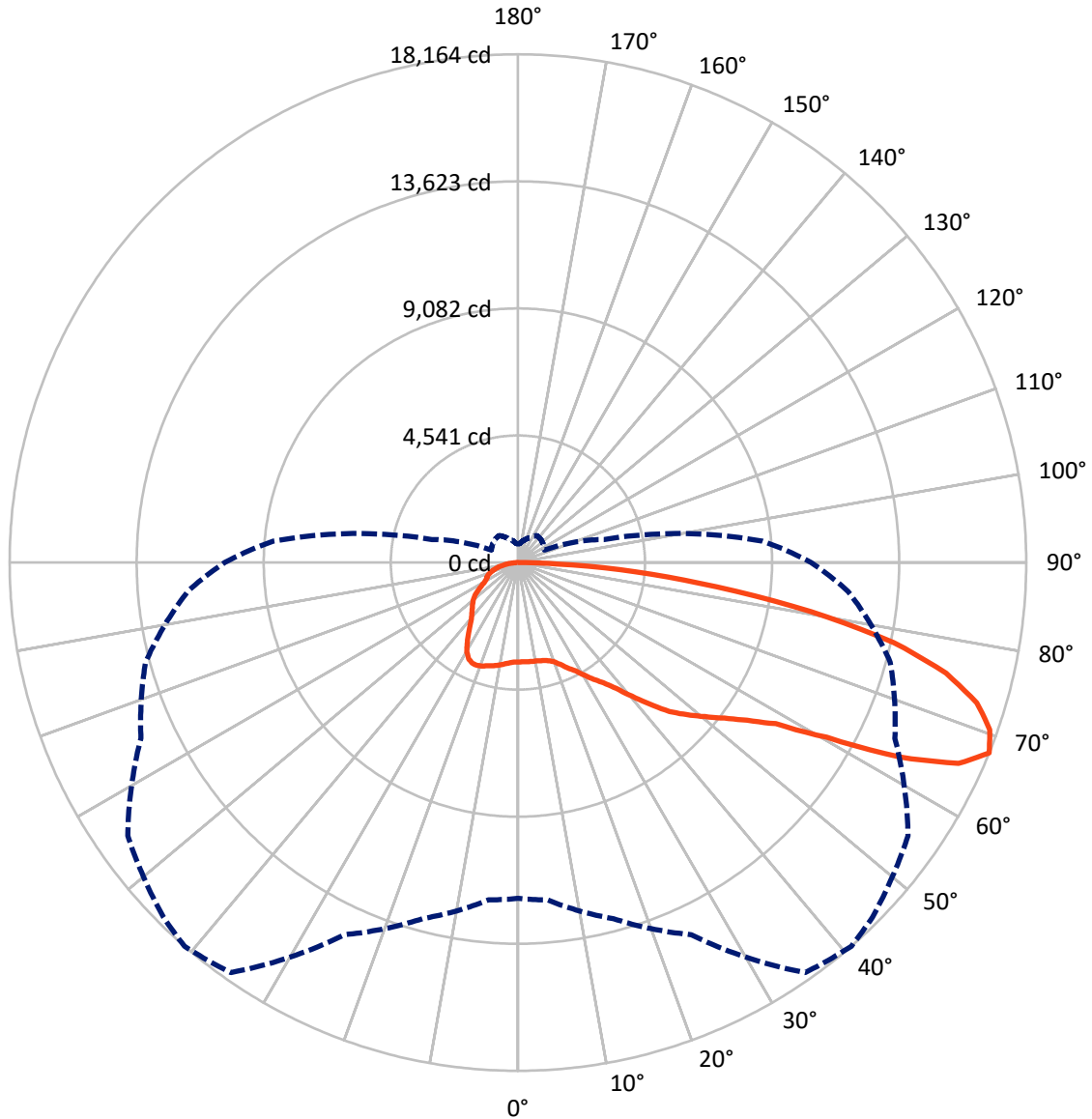
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P510297  
CATALOG NUMBER: VERD-M-CA4-240-760-U-T4

### Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P510297

CATALOG NUMBER: VERD-M-CA4-240-760-U-T4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7531.3	0.0	7531.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	25749.7	0.0	25749.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	33281.0	0.0	33281.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.4	1.0
10°-20°	1064.9	3.2
20°-30°	1904.3	5.7
30°-40°	2986.0	9.0
40°-50°	4630.5	13.9
50°-60°	6527.8	19.6
60°-70°	8321.4	25.0
70°-80°	6227.2	18.7
80°-90°	1275.4	3.8
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°	33281.0	100.0
0°-180°	33281.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P510297

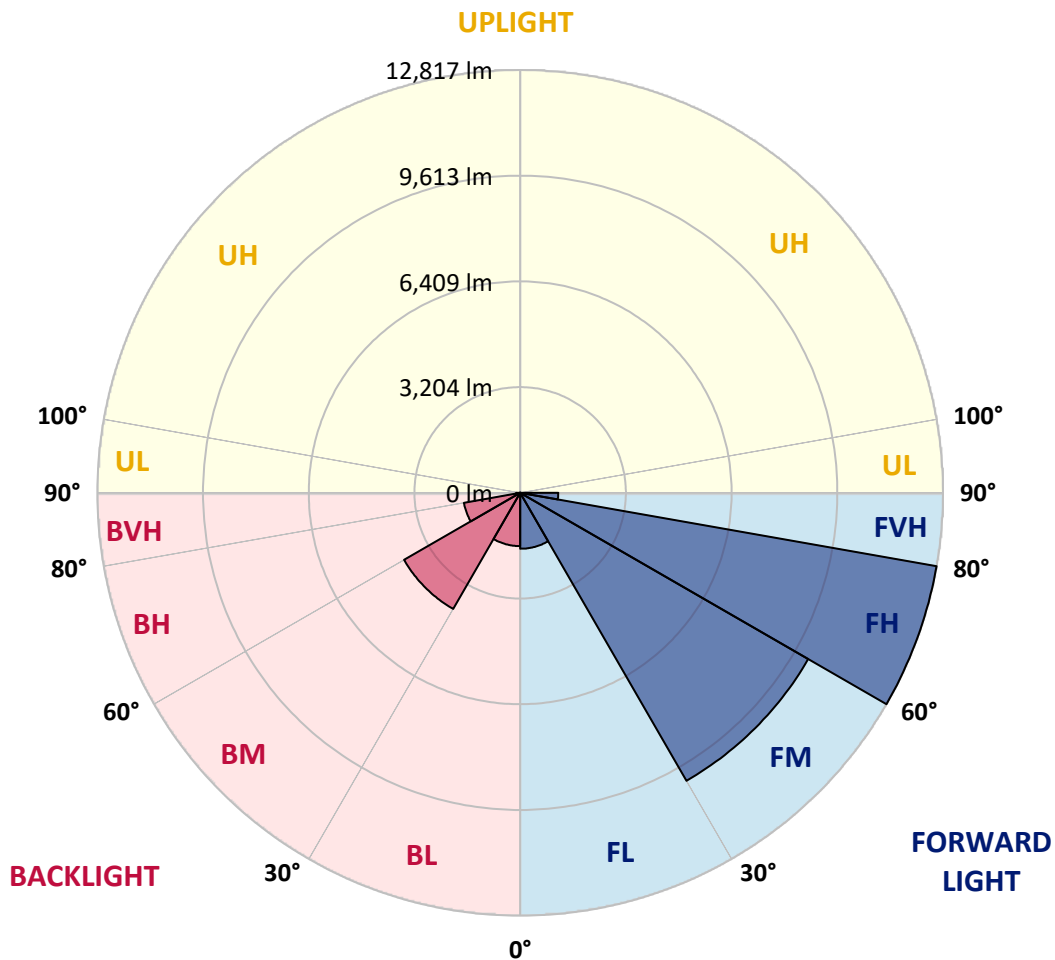
CATALOG NUMBER: VERD-M-CA4-240-760-U-T4

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1695.7	5.1			
FM	(30°-60°)	10080.5	30.3			
FH	(60°-80°)	12817.2	38.5			G5
FVH	(80°-90°)	1156.2	3.5			G5
BL	(0°-30°)	1616.9	4.9	B3/2500		
BM	(30°-60°)	4063.8	12.2	B3/5000		
BH	(60°-80°)	1731.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	119.1	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-G5**

Type IV Short





REPORT NUMBER: P510297

CATALOG NUMBER: VERD-M-CA4-240-760-U-T4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3
2.5°	3509.6	3550.3	3544.3	3536.8	3548.8	3550.3	3515.7	3529.2	3536.8	3548.8	3568.4
5°	3518.7	3559.3	3556.3	3542.8	3551.8	3556.3	3524.7	3548.8	3548.8	3553.3	3575.9
7.5°	3499.1	3538.3	3538.3	3533.7	3553.3	3571.4	3542.8	3563.9	3575.9	3588.0	3603.0
10°	3481.0	3514.2	3526.2	3523.2	3568.4	3572.9	3553.3	3604.5	3624.1	3636.2	3654.2
12.5°	3461.4	3502.1	3518.7	3535.2	3583.4	3600.0	3589.5	3642.2	3682.9	3703.9	3723.5
15°	3452.4	3497.6	3524.7	3548.8	3601.5	3631.6	3631.6	3711.5	3759.7	3786.8	3821.4
17.5°	3515.7	3562.4	3583.4	3603.0	3651.2	3691.9	3688.9	3782.3	3853.1	3895.2	3958.5
20°	3672.3	3728.0	3740.1	3747.6	3777.8	3792.8	3788.3	3889.2	3987.1	4067.0	4137.8
22.5°	3945.0	3978.1	3984.1	3954.0	3961.5	3973.6	3966.0	4021.8	4133.2	4226.6	4353.2
25°	4167.9	4220.6	4205.5	4161.9	4167.9	4184.5	4161.9	4247.7	4327.5	4449.6	4577.6
27.5°	4402.9	4442.0	4425.5	4398.3	4392.3	4380.3	4375.8	4485.7	4603.2	4699.6	4889.4
30°	4689.1	4710.1	4661.9	4649.9	4660.4	4668.0	4639.4	4779.4	4886.4	5025.0	5281.0
32.5°	5171.1	5190.6	5121.4	4936.1	4940.6	4975.3	4951.2	5127.4	5329.2	5497.9	5758.5
35°	5785.6	5785.6	5731.4	5470.8	5273.5	5275.0	5281.0	5529.6	5904.6	6282.7	6550.8
37.5°	6407.7	6428.8	6326.4	6088.4	5838.4	5705.8	5594.3	5913.7	6404.7	7248.2	7647.4
40°	7055.4	7088.6	6934.9	6716.5	6428.8	6278.2	6148.6	6343.0	7005.7	8204.7	8521.0
42.5°	7621.8	7668.5	7510.3	7279.9	7079.5	6909.3	6713.5	6791.8	7667.0	9113.0	9292.3
45°	8149.0	8174.6	8040.5	7850.7	7685.1	7591.7	7454.6	7545.0	8423.1	10001.7	9968.6
47.5°	8537.6	8575.3	8453.3	8350.8	8180.6	8124.9	8123.4	8371.9	9274.2	10709.7	10556.0
50°	9168.7	9140.1	8866.0	8741.0	8637.0	8655.1	8698.8	9128.1	10274.4	11392.0	11050.1
52.5°	10227.7	10174.9	9566.4	9305.8	9177.8	9236.5	9259.1	9813.4	11283.6	11981.0	11458.3
55°	11596.9	11428.2	10985.3	10286.4	9884.2	9940.0	9914.4	10550.0	12090.9	12542.8	11761.1
57.5°	12502.1	12660.3	12447.9	12048.8	11050.1	10867.8	10807.6	11279.0	12838.0	13080.6	12074.4
60°	13288.4	13550.5	13887.9	13631.9	13362.2	12679.9	12118.0	12107.5	13496.3	13439.1	12200.9
62.5°	14118.4	14257.0	14776.6	14934.8	15434.9	15309.9	14556.7	13155.9	14154.5	13701.1	12274.7
65°	13279.4	13464.7	14410.6	15273.7	17124.9	17305.7	17060.2	15105.0	14610.9	13835.2	12169.3
67.5°	12002.1	12104.5	13175.5	14672.7	17890.1	18164.3	17917.2	17018.0	14864.0	13776.5	11843.9
70°	10364.7	10485.2	11508.0	13550.5	17851.0	17887.1	17790.7	17194.2	14763.1	13500.8	11024.5
72.5°	8403.6	8555.7	9454.9	11575.8	16995.4	17152.0	16999.9	16844.8	14479.9	12729.6	9613.1
75°	6358.0	6559.9	7362.7	9229.0	15019.1	15808.4	15828.0	16307.0	13380.3	10913.0	6977.1
77.5°	4336.6	4529.4	5290.1	7031.3	12467.5	13728.3	14056.6	14580.8	11179.6	8064.6	3806.4
80°	2441.7	2423.6	3389.1	5023.5	9509.2	10616.3	11029.0	11007.9	7850.7	4140.8	775.7
82.5°	1128.2	1131.2	1733.7	3206.9	6437.9	7168.4	7335.6	6385.1	2755.0	701.9	247.0
85°	561.8	567.9	834.5	1608.7	3634.7	4199.5	3991.6	2657.1	590.5	204.9	147.6
87.5°	222.9	213.9	329.9	661.3	1312.0	1390.3	1214.1	531.7	106.9	72.3	49.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510297

CATALOG NUMBER: VERD-M-CA4-240-760-U-T4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3
2.5°	3563.9	3566.9	3580.4	3553.3	3560.9	3554.8	3550.3	3574.4	3572.9	3577.4	3569.9
5°	3574.4	3581.9	3595.5	3583.4	3595.5	3589.5	3594.0	3627.1	3631.6	3630.1	3630.1
7.5°	3603.0	3610.6	3636.2	3621.1	3648.2	3640.7	3642.2	3673.8	3679.8	3670.8	3667.8
10°	3663.3	3669.3	3705.5	3702.4	3713.0	3707.0	3700.9	3714.5	3711.5	3697.9	3691.9
12.5°	3732.6	3749.1	3789.8	3791.3	3804.9	3774.7	3743.1	3738.6	3729.6	3708.5	3703.9
15°	3836.5	3856.1	3917.8	3902.8	3893.7	3829.0	3776.3	3734.1	3697.9	3679.8	3663.3
17.5°	3985.6	4018.8	4104.6	4057.9	3991.6	3896.8	3804.9	3713.0	3636.2	3571.4	3545.8
20°	4175.4	4213.1	4285.4	4223.6	4122.7	3981.1	3832.0	3666.3	3499.1	3356.0	3334.9
22.5°	4401.4	4461.6	4514.3	4372.7	4223.6	4044.4	3832.0	3594.0	3316.8	3102.9	3050.2
25°	4665.0	4711.7	4695.1	4496.3	4280.9	4054.9	3789.8	3466.0	3074.3	2825.8	2783.6
27.5°	4951.2	4972.2	4844.2	4555.0	4286.9	3993.2	3670.8	3238.5	2791.1	2595.3	2554.7
30°	5303.6	5240.4	4996.3	4591.1	4226.6	3856.1	3458.4	2905.6	2560.7	2389.0	2342.3
32.5°	5683.2	5567.2	5104.8	4565.5	4094.1	3627.1	3130.1	2670.6	2407.0	2197.7	2158.5
35°	6406.2	6076.3	5263.0	4488.7	3863.6	3321.4	2812.2	2489.9	2244.4	2019.9	1983.8
37.5°	7382.3	6808.4	5484.4	4381.8	3591.0	3024.6	2575.7	2297.1	2084.7	1852.7	1795.5
40°	8141.5	7548.0	5839.9	4267.3	3339.4	2742.9	2404.0	2196.2	1979.3	1732.2	1682.5
42.5°	8864.5	8224.3	6276.7	4139.3	3080.3	2547.1	2328.7	2173.6	1950.6	1699.1	1652.4
45°	9503.1	8771.1	6653.2	4011.2	2788.1	2366.4	2273.0	2129.9	1910.0	1656.9	1611.7
47.5°	10019.8	9241.0	6980.1	3872.7	2523.0	2229.3	2200.7	2050.1	1831.6	1571.1	1516.8
50°	10486.7	9638.7	7206.1	3725.0	2263.9	2117.8	2081.7	1903.9	1676.5	1446.0	1411.4
52.5°	10774.4	9908.3	7341.6	3749.1	2018.4	1992.8	1934.1	1751.8	1540.9	1343.6	1298.4
55°	11075.7	10162.9	7340.1	3613.6	1813.6	1804.5	1748.8	1608.7	1443.0	1277.3	1250.2
57.5°	11199.2	10185.5	7203.0	2976.4	1632.8	1575.6	1563.5	1489.7	1345.1	1188.5	1158.3
60°	11282.1	10086.1	6944.0	2032.0	1405.4	1364.7	1423.4	1373.7	1242.7	1078.5	1048.4
62.5°	11200.7	9977.6	6264.6	1467.1	1232.1	1254.7	1310.5	1256.2	1119.2	970.0	944.4
65°	11006.4	9563.4	4946.6	1143.3	1155.3	1205.0	1248.7	1158.3	906.8	759.2	744.1
67.5°	10476.2	8775.6	3182.8	1048.4	1111.6	1162.9	1177.9	980.6	820.9	679.3	662.8
70°	9360.0	7044.9	1226.1	988.1	1068.0	1090.5	1028.8	899.3	754.6	632.6	617.6
72.5°	7322.0	4625.8	708.0	903.8	974.6	953.5	955.0	807.4	680.8	564.9	552.8
75°	4550.5	1675.0	629.6	804.4	825.4	864.6	814.9	700.4	585.9	516.7	501.6
77.5°	1504.8	476.0	582.9	692.9	739.6	711.0	682.3	598.0	501.6	447.4	439.8
80°	364.5	357.0	522.7	542.3	579.9	531.7	528.7	497.1	423.3	391.6	384.1
82.5°	224.4	256.1	415.7	337.4	387.1	391.6	445.9	409.7	308.8	320.8	310.3
85°	138.6	197.3	218.4	162.7	164.2	219.9	266.6	247.0	185.3	174.7	173.2
87.5°	46.7	40.7	46.7	34.6	46.7	79.8	120.5	114.5	76.8	52.7	49.7
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)