

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: P553627

Luminaire Tested: **VERD-G-CA2-160-750-U-T3**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-160-750-U-T3  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1460mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23133 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

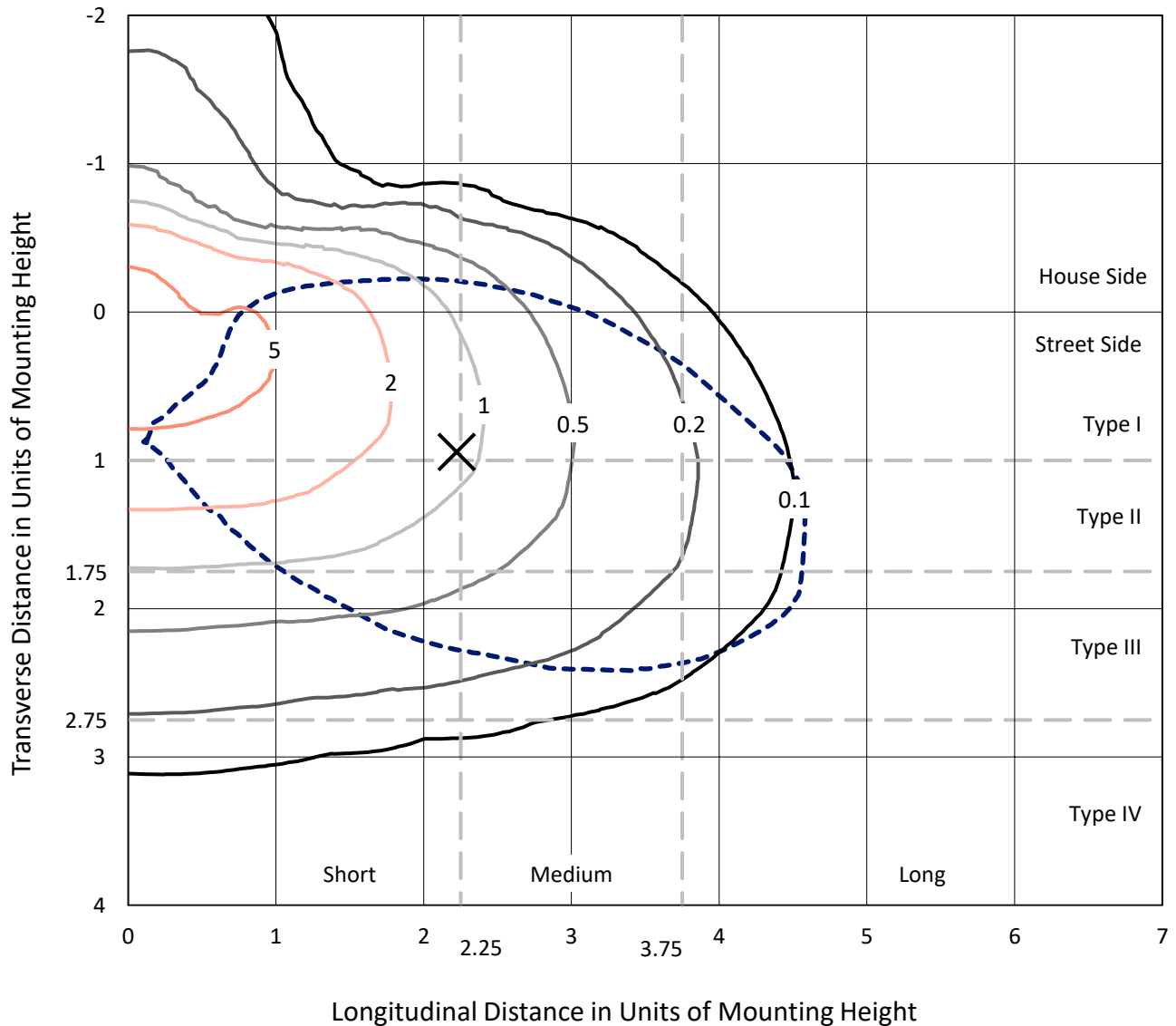
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

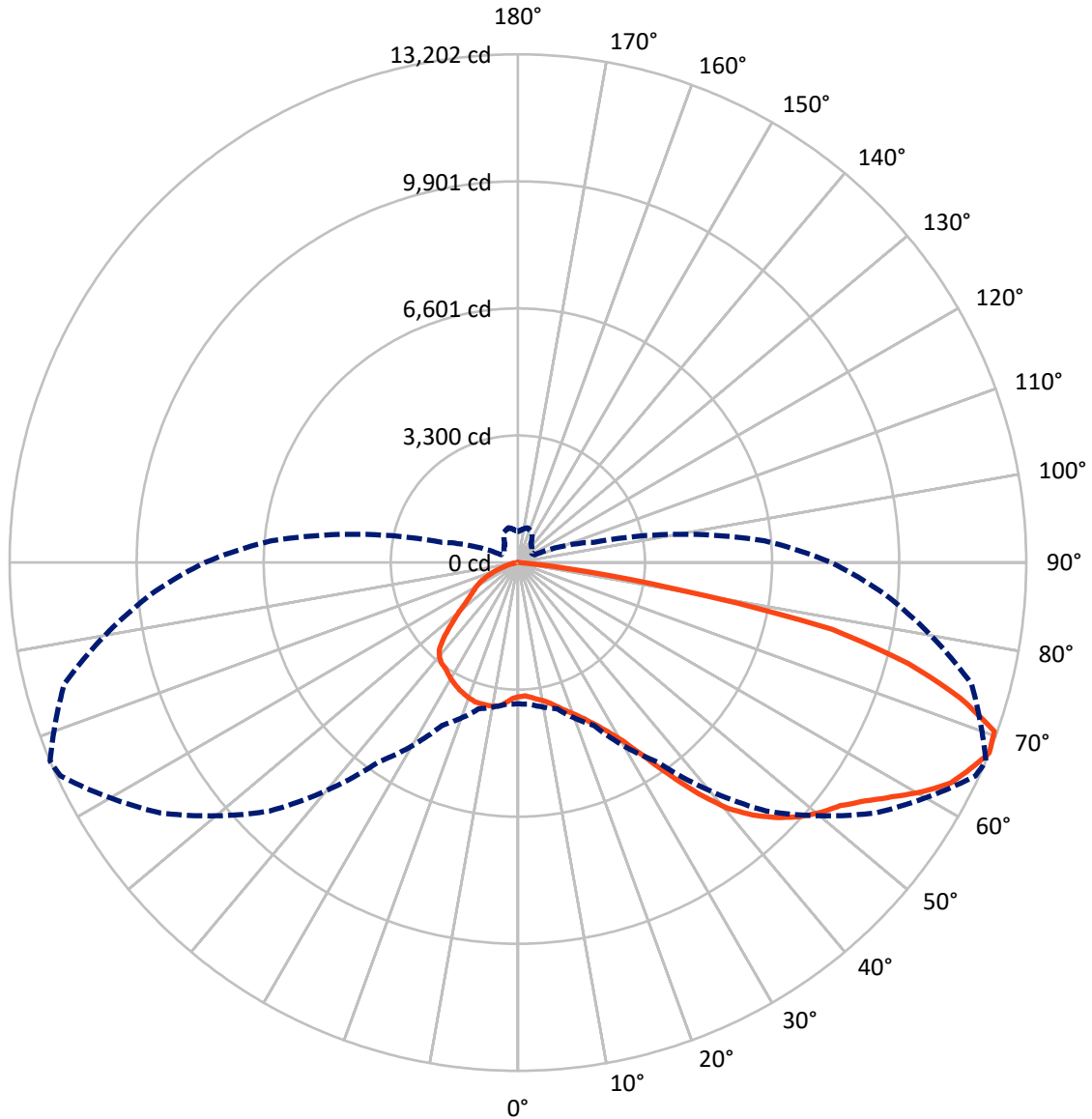
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

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CATALOG NUMBER: VERD-G-CA2-160-750-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: VERD-G-CA2-160-750-U-T3

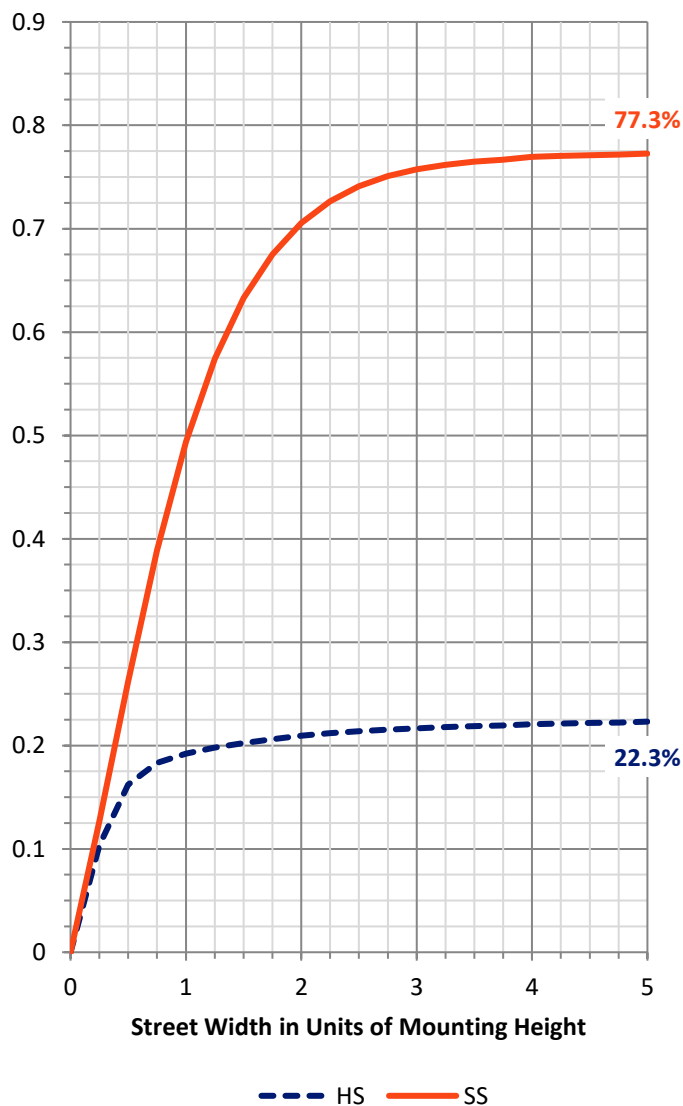
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5249.0	0.0	5249.0
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	17884.0	0.0	17884.0
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	23133.0	0.0	23133.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.3	1.5
10°-20°	1118.1	4.8
20°-30°	1917.7	8.3
30°-40°	2854.0	12.3
40°-50°	3902.1	16.9
50°-60°	4687.1	20.3
60°-70°	4972.3	21.5
70°-80°	3037.5	13.1
80°-90°	290.9	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°	23133.0	100.0
0°-180°	23133.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P553627

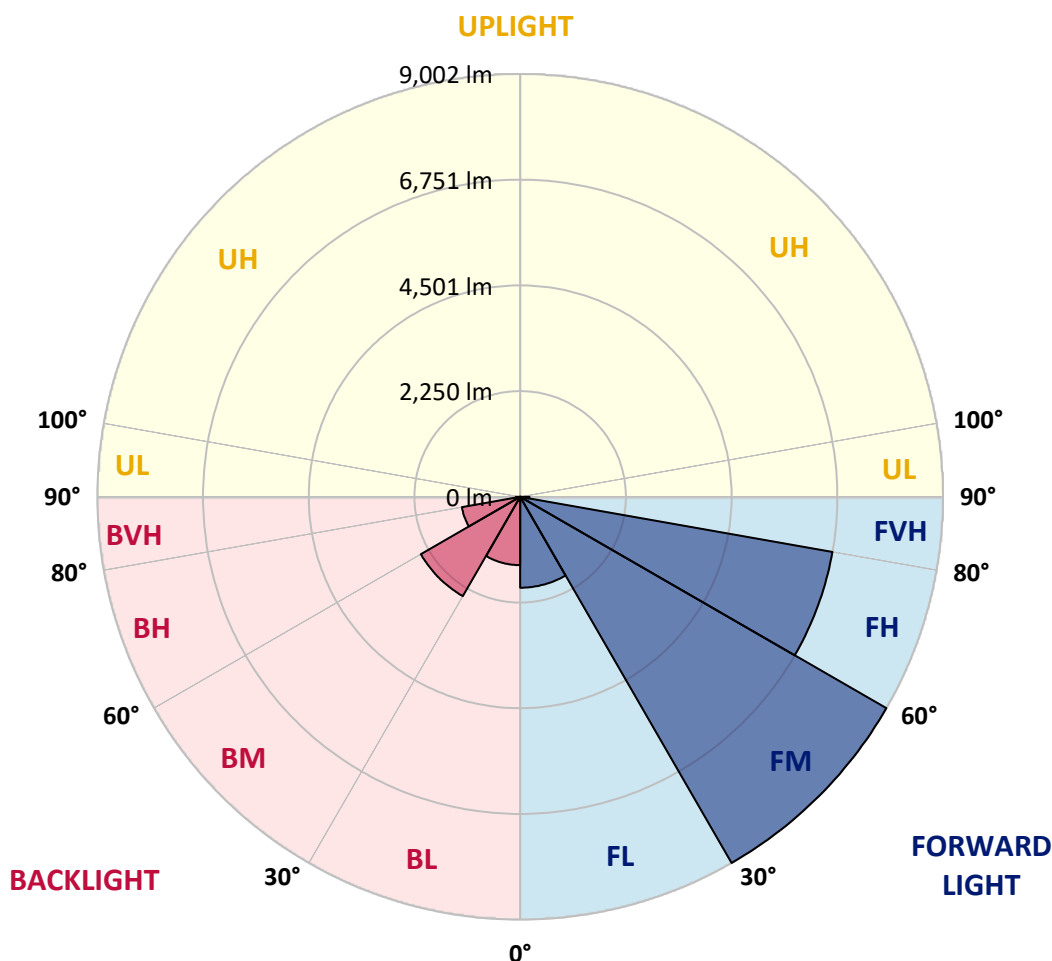
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1934.9	8.4			
FM (30°-60°)	9001.5	38.9			
FH (60°-80°)	6749.6	29.2			G3/7500
FVH (80°-90°)	198.1	0.9			G2/225
BL (0°-30°)	1454.3	6.3	B3/2500		
BM (30°-60°)	2441.6	10.6	B2/2500		
BH (60°-80°)	1260.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	92.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3487.8	3487.8	3487.8	3487.8	3487.8	3487.8	3487.8	3487.8	3487.8	3487.8	3487.8
2.5°	3543.0	3559.9	3532.3	3513.9	3494.0	3504.7	3478.6	3478.6	3466.4	3486.3	3474.0
5°	3657.9	3673.3	3625.7	3587.4	3584.4	3552.2	3549.1	3533.8	3515.4	3532.3	3549.1
7.5°	3811.2	3805.0	3771.3	3726.9	3682.4	3664.1	3633.4	3610.4	3582.8	3598.2	3602.8
10°	3998.1	3987.4	3943.0	3872.5	3837.2	3786.7	3710.0	3667.1	3647.2	3662.5	3667.1
12.5°	4197.3	4183.6	4140.6	4062.5	4001.2	3921.5	3834.2	3765.2	3751.4	3736.1	3762.1
15°	4421.1	4396.6	4359.8	4297.0	4201.9	4097.7	3978.2	3912.3	3892.4	3866.3	3854.1
17.5°	4663.2	4660.1	4612.6	4543.7	4447.1	4303.1	4149.8	4047.2	4047.2	4036.4	3970.5
20°	4923.7	4911.5	4864.0	4825.6	4689.3	4537.5	4350.6	4220.3	4206.5	4185.1	4076.3
22.5°	5185.8	5187.3	5126.0	5096.9	4995.7	4801.1	4565.1	4434.9	4407.3	4378.2	4189.7
25°	5423.3	5426.4	5408.0	5354.3	5271.6	5092.3	4845.6	4672.4	4657.1	4617.2	4388.9
27.5°	5663.9	5702.2	5648.6	5654.7	5617.9	5412.6	5165.8	4955.9	4971.2	4883.9	4571.3
30°	5948.9	5962.7	5936.7	5944.3	5921.3	5786.5	5547.4	5377.3	5377.3	5277.7	4880.8
32.5°	6177.3	6165.0	6166.5	6246.2	6256.9	6183.4	5987.2	5932.1	5979.6	5967.3	5610.3
35°	6290.7	6312.1	6371.9	6554.2	6643.1	6598.7	6575.7	6649.2	6768.8	6845.4	6407.1
37.5°	6436.2	6502.1	6577.2	6781.0	6945.0	7067.6	7193.3	7435.4	7607.0	7706.6	7164.1
40°	6586.4	6592.5	6742.7	6995.6	7315.9	7510.5	7809.3	8226.1	8394.7	8319.6	7584.0
42.5°	6469.9	6485.3	6693.7	7144.2	7545.7	8043.8	8367.1	8848.3	8964.8	8736.4	8017.7
45°	6319.8	6348.9	6612.5	7144.2	7798.6	8532.6	8901.9	9438.3	9452.1	9144.0	8279.8
47.5°	6186.4	6211.0	6488.3	7089.1	8036.1	8961.7	9332.5	9769.3	9862.8	9476.6	8627.6
50°	6008.7	6070.0	6342.8	7040.0	8146.4	9260.5	9714.1	10167.7	10199.9	9790.7	8888.1
52.5°	5815.6	5869.2	6204.8	6948.1	8287.4	9507.2	9967.0	10550.8	10491.1	10210.6	9180.8
55°	5555.1	5602.6	5990.3	6801.0	8304.3	9640.6	10149.3	10906.4	10929.3	10560.0	9464.3
57.5°	5256.3	5335.9	5688.4	6528.2	8149.5	9680.4	10463.5	11387.5	11476.4	10992.2	9691.1
60°	4932.9	4995.7	5395.7	6238.5	7944.2	9830.6	10894.1	12011.2	12081.7	11369.1	9783.1
62.5°	4601.9	4654.0	4985.0	5803.3	7567.2	9859.7	11269.5	12638.0	12615.0	11704.8	9910.3
65°	4189.7	4194.3	4506.9	5277.7	7043.1	9651.3	11462.6	12892.4	12915.4	12009.7	9764.7
67.5°	3665.6	3694.7	3932.2	4664.7	6329.0	9127.2	11340.0	13111.5	13201.9	12198.2	9579.3
70°	2919.3	2936.1	3184.4	3866.3	5380.4	8316.5	11107.1	13145.2	13125.3	11954.5	9069.0
72.5°	2076.5	2140.8	2307.8	2718.5	4128.4	6807.1	10054.3	12104.7	12012.8	11013.6	8089.7
75°	1334.8	1340.9	1507.9	1776.1	2416.7	4825.6	8380.9	10434.4	10472.7	9553.2	6586.4
77.5°	441.3	498.0	553.2	749.4	1002.2	2009.0	5657.8	8224.6	8341.1	7525.8	4494.6
80°	194.6	194.6	329.5	424.5	541.0	861.2	2257.3	3722.3	4079.3	3509.3	1731.7
82.5°	142.5	145.6	220.7	252.9	213.0	358.6	810.7	1192.2	1264.3	1135.5	688.1
85°	81.2	84.3	95.0	108.8	90.4	145.6	179.3	183.9	185.4	160.9	125.7
87.5°	36.8	36.8	33.7	29.1	16.9	10.7	10.7	7.7	9.2	7.7	6.1
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°	3487.8	3487.8	3487.8	3487.8	3487.8	3487.8	3487.8	3487.8	3487.8	3487.8	3487.8
2.5°	3469.4	3484.8	3518.5	3524.6	3539.9	3562.9	3592.0	3605.8	3651.8	3673.3	3679.4
5°	3552.2	3559.9	3618.1	3638.0	3707.0	3742.2	3772.9	3794.3	3851.0	3864.8	3889.3
7.5°	3615.0	3641.1	3711.6	3756.0	3798.9	3835.7	3832.6	3883.2	3912.3	3935.3	3944.5
10°	3679.4	3693.2	3765.2	3785.1	3817.3	3844.9	3852.5	3866.3	3874.0	3906.2	3916.9
12.5°	3779.0	3769.8	3779.0	3795.8	3821.9	3815.8	3832.6	3812.7	3823.4	3864.8	3849.5
15°	3852.5	3831.1	3791.2	3792.8	3775.9	3768.3	3743.7	3726.9	3725.4	3734.5	3749.9
17.5°	3935.3	3872.5	3798.9	3779.0	3716.2	3654.9	3612.0	3566.0	3558.3	3567.5	3556.8
20°	4007.3	3923.0	3795.8	3733.0	3610.4	3500.1	3437.3	3368.3	3365.2	3359.1	3346.8
22.5°	4094.7	3988.9	3794.3	3667.1	3521.5	3343.8	3213.5	3161.4	3098.6	3123.1	3120.0
25°	4224.9	4093.1	3808.1	3596.6	3360.6	3149.2	2982.1	2867.2	2804.4	2790.6	2796.7
27.5°	4385.8	4211.1	3815.8	3507.7	3213.5	2911.6	2646.5	2473.4	2435.0	2384.5	2389.1
30°	4620.3	4372.0	3852.5	3409.7	2997.4	2608.2	2292.5	2067.3	2002.9	2013.6	2016.7
32.5°	5173.5	4703.0	3878.6	3296.3	2759.9	2272.6	1860.4	1635.1	1584.5	1602.9	1613.7
35°	5899.9	5337.5	4021.1	3150.7	2490.2	1880.3	1426.7	1299.5	1310.2	1345.5	1354.7
37.5°	6620.1	6010.2	4335.3	3023.5	2145.4	1439.0	1138.6	1063.5	1126.3	1160.1	1170.8
40°	7063.0	6457.7	4681.6	2827.3	1707.1	1057.4	867.4	824.5	896.5	974.6	1012.9
42.5°	7510.5	6823.9	4906.9	2588.3	1221.4	769.3	645.2	680.4	798.4	876.6	894.9
45°	7795.5	7012.4	4928.3	2208.2	813.7	596.1	588.5	663.5	784.6	847.4	858.2
47.5°	8072.9	7265.3	4837.9	1768.4	613.0	567.0	583.9	671.2	790.7	861.2	859.7
50°	8348.7	7513.5	4641.8	1403.7	579.3	548.6	593.1	686.5	801.5	855.1	855.1
52.5°	8517.3	7636.1	4247.9	1117.1	557.8	537.9	597.7	692.7	790.7	821.4	816.8
55°	8719.6	7665.2	3982.8	930.2	534.8	530.2	606.8	709.5	789.2	792.3	781.5
57.5°	8825.3	7593.2	3766.7	790.7	514.9	533.3	617.6	714.1	833.6	870.4	876.6
60°	8779.3	7505.9	3521.5	703.4	496.5	528.7	614.5	749.4	971.6	1048.2	1034.4
62.5°	8734.9	7341.9	3109.3	631.4	476.6	531.8	611.4	830.6	1141.7	1062.0	1019.1
65°	8574.0	7001.7	2573.0	562.4	452.1	533.3	605.3	917.9	1169.2	1072.7	999.1
67.5°	8132.6	6434.7	2035.1	488.8	423.0	511.8	591.5	862.8	936.3	842.8	803.0
70°	7475.2	5613.3	1396.0	423.0	387.7	485.8	582.3	816.8	879.6	813.7	763.2
72.5°	6414.8	4410.4	773.9	354.0	340.2	453.6	580.8	806.1	885.7	697.3	642.1
75°	4877.7	2925.4	502.6	277.4	278.9	404.6	553.2	769.3	858.2	655.9	580.8
77.5°	2873.3	1232.1	350.9	197.7	217.6	314.1	491.9	737.1	812.2	642.1	580.8
80°	976.2	542.5	228.3	133.3	133.3	200.7	350.9	602.2	723.3	625.2	619.1
82.5°	507.2	344.8	145.6	82.8	76.6	96.5	216.1	413.8	580.8	530.2	603.8
85°	101.1	72.0	46.0	33.7	36.8	49.0	76.6	209.9	367.8	409.2	490.4
87.5°	7.7	6.1	9.2	9.2	9.2	9.2	10.7	52.1	147.1	180.8	223.7
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)