

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: P553610

Luminaire Tested: **VERD-G-CA2-160-730-U-T3-HSS**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-160-730-U-T3-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1460mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20655 lumens  
Efficiency: N/A  
Efficacy: 127.0 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

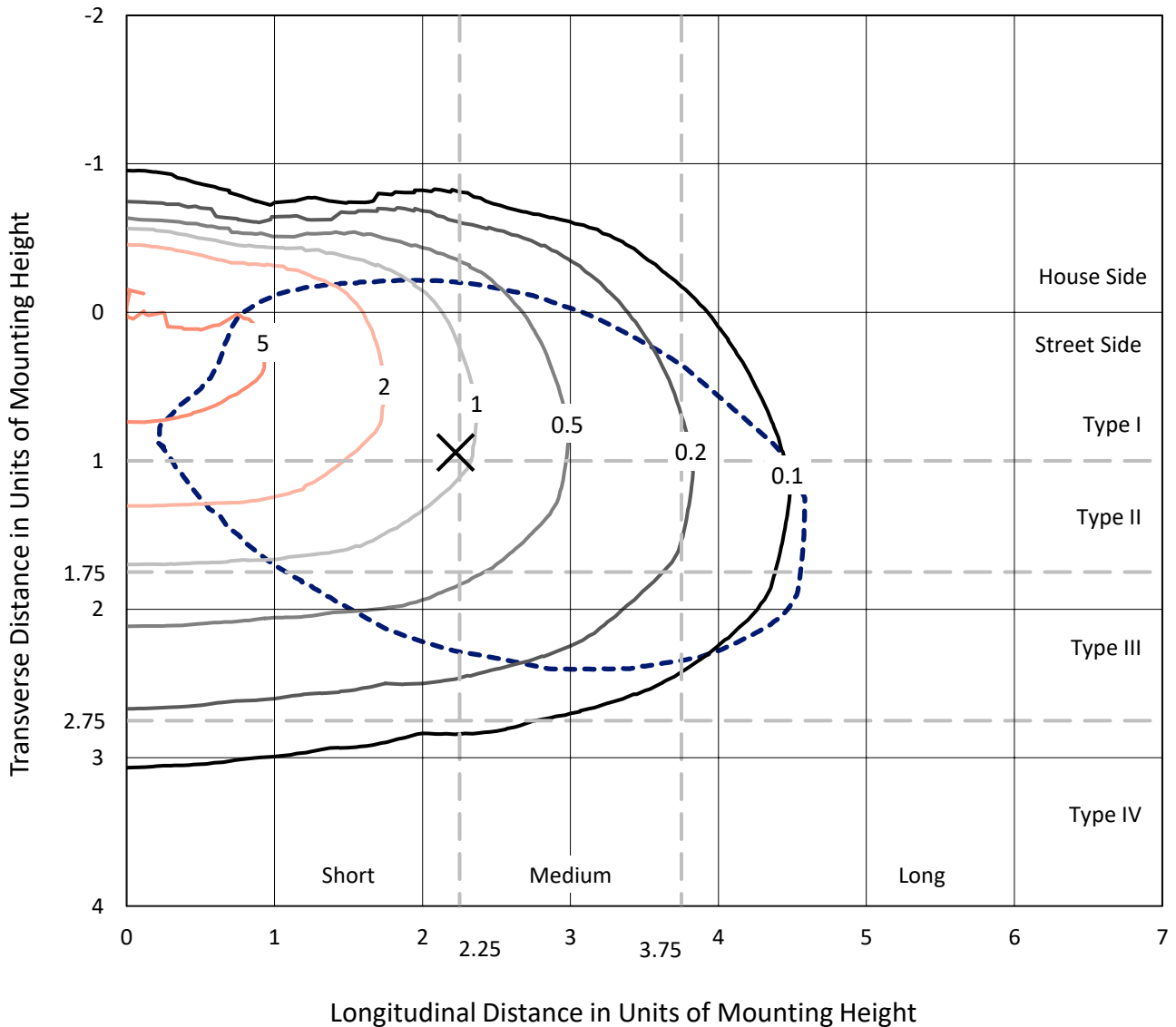
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

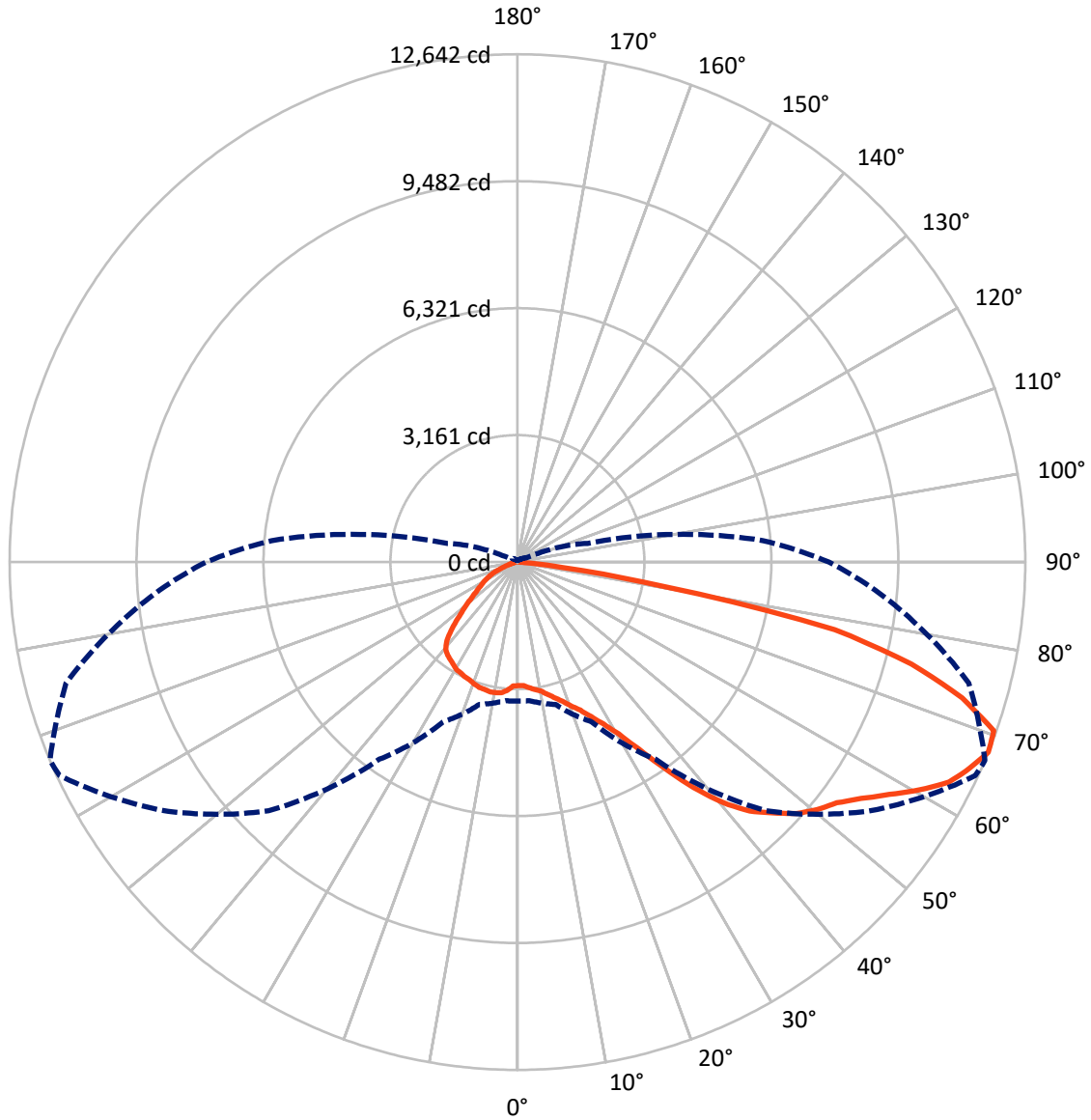
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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

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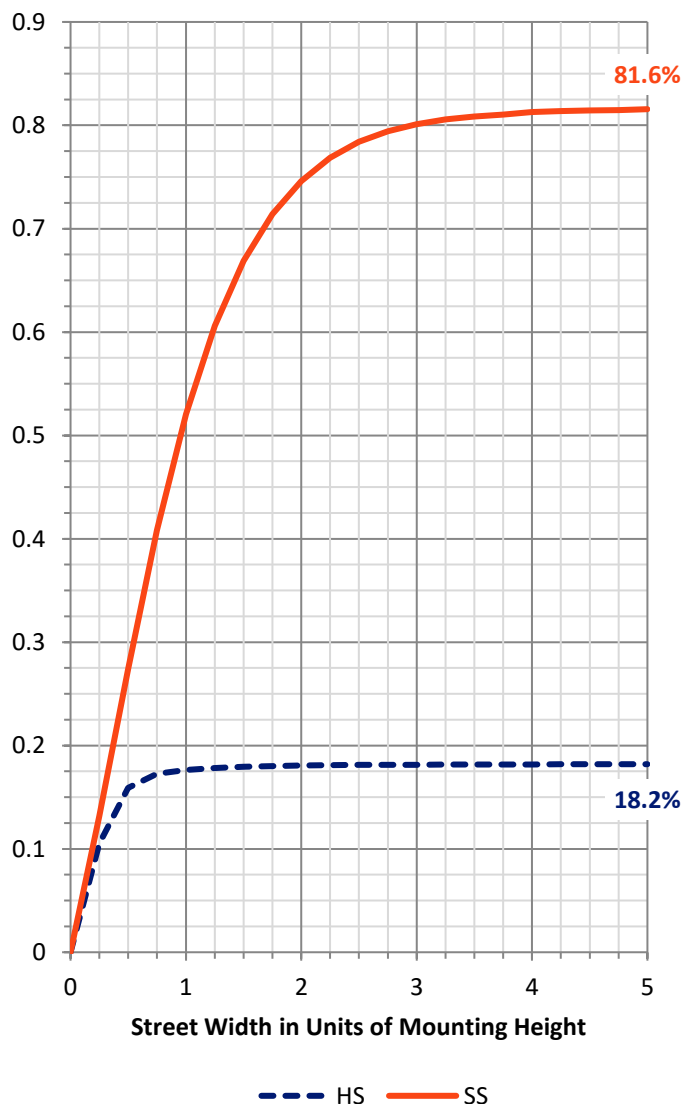
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3801.8	0.0	3801.8
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	16853.2	0.0	16853.2
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	20655.0	0.0	20655.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.3	1.5
10°-20°	966.8	4.7
20°-30°	1648.3	8.0
30°-40°	2514.1	12.2
40°-50°	3544.1	17.2
50°-60°	4283.9	20.7
60°-70°	4511.7	21.8
70°-80°	2683.9	13.0
80°-90°	192.9	0.9
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°	20655.0	100.0
0°-180°	20655.0	100.0

**Coefficient of Utilization**



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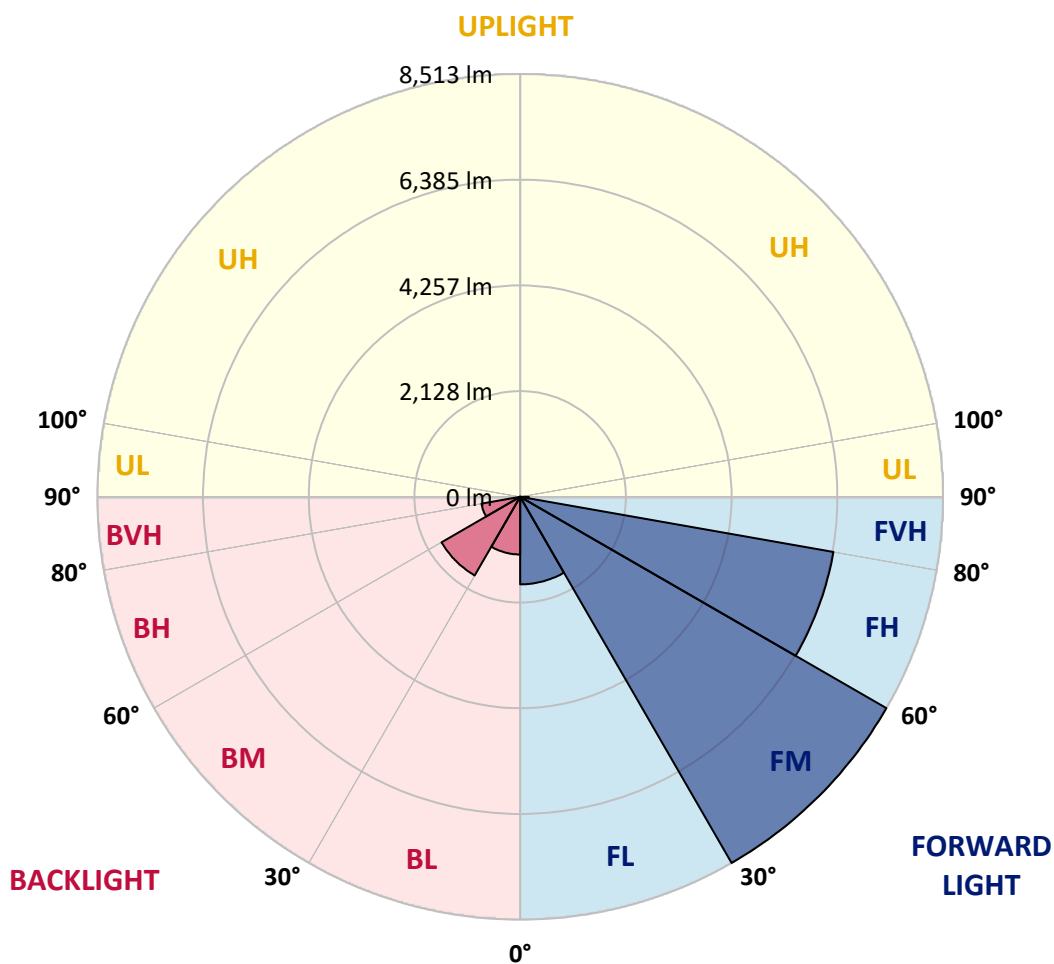
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1763.4	8.5			
FM	(30°-60°)	8513.0	41.2			
FH	(60°-80°)	6404.1	31.0			G3/7500
FVH	(80°-90°)	172.7	0.8			G2/225
BL	(0°-30°)	1161.0	5.6	B3/2500		
BM	(30°-60°)	1829.0	8.9	B2/2500		
BH	(60°-80°)	791.5	3.8	B2/1000		G2/1000
BVH	(80°-90°)	20.3	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9
2.5°	3139.9	3151.7	3128.1	3122.2	3091.1	3095.6	3089.7	3074.9	3080.8	3069.0	3076.4
5°	3261.1	3230.0	3221.2	3203.4	3175.4	3159.1	3135.5	3128.1	3144.3	3131.0	3134.0
7.5°	3389.6	3395.5	3355.6	3321.6	3271.4	3259.6	3218.2	3193.1	3209.3	3191.6	3202.0
10°	3550.7	3559.5	3516.7	3470.9	3428.0	3366.0	3314.2	3274.4	3269.9	3261.1	3275.8
12.5°	3762.0	3760.5	3713.2	3657.0	3572.8	3530.0	3431.0	3374.8	3382.2	3349.7	3346.8
15°	4007.2	3986.6	3931.9	3874.3	3769.3	3685.1	3565.4	3496.0	3507.8	3470.9	3462.0
17.5°	4246.6	4225.9	4183.1	4119.5	4023.5	3893.5	3747.2	3646.7	3643.8	3626.0	3572.8
20°	4491.9	4500.8	4443.1	4385.5	4289.5	4115.1	3949.6	3819.6	3822.5	3791.5	3688.1
22.5°	4778.5	4762.3	4692.8	4666.2	4556.9	4366.3	4181.6	4032.4	4002.8	3996.9	3818.1
25°	5051.9	5041.6	4978.0	4947.0	4855.4	4681.0	4441.7	4262.9	4258.4	4239.2	3986.6
27.5°	5269.1	5280.9	5275.0	5252.9	5152.4	4981.0	4771.2	4556.9	4559.9	4531.8	4205.2
30°	5577.9	5542.5	5529.2	5546.9	5538.0	5353.3	5130.2	4975.1	4964.7	4892.3	4481.5
32.5°	5758.2	5775.9	5793.7	5855.7	5857.2	5719.8	5575.0	5501.1	5542.5	5554.3	5168.6
35°	5923.7	5923.7	6025.6	6182.3	6236.9	6189.6	6127.6	6220.7	6301.9	6466.0	6013.8
37.5°	6071.4	6114.3	6210.3	6406.9	6585.6	6631.5	6767.4	7023.0	7122.0	7271.2	6726.0
40°	6195.6	6226.6	6349.2	6590.1	6897.4	7107.2	7361.4	7767.7	7871.2	7843.1	7122.0
42.5°	6058.1	6108.4	6304.9	6799.9	7187.0	7581.5	7914.0	8352.8	8478.4	8218.4	7538.7
45°	5984.3	6003.5	6208.9	6770.3	7399.8	8061.8	8438.6	8908.4	8908.4	8617.3	7832.7
47.5°	5836.5	5870.5	6114.3	6731.9	7625.9	8462.2	8843.4	9322.2	9353.2	8994.1	8125.3
50°	5687.3	5730.1	6006.4	6664.0	7752.9	8864.1	9187.7	9667.9	9679.7	9252.7	8383.9
52.5°	5539.5	5561.7	5870.5	6619.6	7893.3	9071.0	9484.7	9948.7	9954.6	9639.8	8669.1
55°	5275.0	5329.7	5648.8	6457.1	7885.9	9165.5	9639.8	10324.0	10381.6	10061.0	8949.8
57.5°	5026.8	5043.0	5391.7	6222.2	7766.2	9274.9	9973.8	10861.8	10918.0	10443.6	9158.1
60°	4695.8	4713.5	5088.8	5942.9	7588.9	9384.2	10397.8	11489.8	11514.9	10845.6	9314.8
62.5°	4350.0	4410.6	4719.4	5514.4	7221.0	9403.4	10756.9	12069.0	12058.7	11194.3	9418.2
65°	3943.7	3965.9	4262.9	5013.5	6658.0	9257.1	10904.7	12349.7	12374.9	11439.5	9350.2
67.5°	3456.1	3465.0	3668.9	4389.9	5991.7	8753.3	10782.0	12578.8	12642.3	11631.6	9066.5
70°	2730.6	2743.9	2931.6	3617.2	5046.0	7982.0	10575.2	12605.4	12578.8	11458.8	8635.1
72.5°	1903.1	1883.9	2067.2	2537.0	3821.1	6565.0	9576.3	11532.6	11579.9	10601.8	7732.3
75°	911.7	917.6	1281.1	1560.3	2145.5	4689.9	7970.2	9930.9	10128.9	9239.4	6299.0
77.5°	155.1	158.1	338.4	614.7	864.4	1968.2	5285.4	7909.6	8078.0	7252.0	4264.3
80°	124.1	124.1	165.5	331.0	458.1	815.6	2002.1	3506.3	3689.6	3284.7	1572.2
82.5°	84.2	88.7	118.2	193.6	162.5	319.2	727.0	1109.7	1139.2	1032.8	645.7
85°	47.3	48.8	60.6	78.3	68.0	118.2	149.2	152.2	161.1	125.6	96.0
87.5°	5.9	13.3	13.3	13.3	5.9	5.9	4.4	4.4	5.9	4.4	4.4
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°	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9
2.5°	3071.9	3054.2	3092.6	3085.2	3111.8	3107.4	3129.5	3141.4	3166.5	3199.0	3196.0
5°	3136.9	3135.5	3181.3	3203.4	3227.1	3249.2	3250.7	3272.9	3295.0	3343.8	3342.3
7.5°	3199.0	3212.3	3277.3	3278.8	3287.7	3303.9	3281.7	3289.1	3295.0	3312.8	3318.7
10°	3271.4	3296.5	3298.0	3292.1	3264.0	3262.5	3212.3	3218.2	3191.6	3212.3	3202.0
12.5°	3364.5	3343.8	3332.0	3292.1	3249.2	3191.6	3144.3	3079.3	3064.5	3064.5	3069.0
15°	3456.1	3425.1	3323.1	3259.6	3181.3	3089.7	3012.8	2938.9	2902.0	2885.7	2882.8
17.5°	3535.9	3470.9	3326.1	3243.3	3095.6	2961.1	2845.8	2727.6	2670.0	2633.1	2627.2
20°	3600.9	3531.5	3334.9	3190.1	3002.5	2804.5	2630.1	2480.9	2367.1	2282.9	2291.8
22.5°	3710.2	3599.4	3329.0	3126.6	2894.6	2637.5	2374.5	2169.1	1978.5	1931.2	1944.5
25°	3841.7	3696.9	3363.0	3088.2	2769.0	2427.7	2081.9	1844.0	1640.1	1575.1	1579.6
27.5°	3993.9	3815.2	3401.4	3024.6	2639.0	2169.1	1752.4	1458.4	1295.9	1167.3	1157.0
30°	4236.3	3976.2	3442.8	2983.3	2457.2	1881.0	1393.4	1087.5	883.6	814.2	814.2
32.5°	4805.1	4302.8	3509.3	2884.3	2217.9	1558.9	1016.6	712.2	531.9	469.9	471.4
35°	5527.7	4961.8	3660.0	2763.1	1935.7	1182.1	628.0	396.0	311.8	280.7	277.8
37.5°	6217.7	5567.6	3982.1	2621.3	1579.6	749.1	353.1	243.8	212.8	211.3	212.8
40°	6643.3	6046.3	4305.7	2432.1	1154.0	412.2	229.0	199.5	195.0	190.6	190.6
42.5°	7036.3	6375.8	4551.0	2142.5	688.6	249.7	201.0	181.7	178.8	171.4	171.4
45°	7355.5	6612.2	4570.2	1756.9	365.0	221.6	184.7	165.5	159.6	155.1	153.7
47.5°	7658.4	6842.7	4500.8	1346.1	260.1	205.4	172.9	152.2	144.8	147.8	146.3
50°	7862.3	7073.3	4311.6	1058.0	248.2	190.6	159.6	138.9	135.9	141.8	140.4
52.5°	8082.4	7262.4	3943.7	823.0	230.5	175.8	146.3	130.0	124.1	128.6	130.0
55°	8256.8	7259.4	3673.3	642.8	218.7	164.0	137.4	122.6	112.3	112.3	110.8
57.5°	8342.5	7190.0	3456.1	505.3	205.4	152.2	128.6	107.9	96.0	93.1	91.6
60°	8338.1	7122.0	3203.4	415.2	192.1	138.9	115.3	91.6	79.8	73.9	73.9
62.5°	8290.8	6962.4	2803.0	357.6	178.8	128.6	96.0	75.4	66.5	60.6	62.1
65°	8169.6	6655.1	2311.0	304.4	165.5	124.1	81.3	66.5	57.6	51.7	51.7
67.5°	7750.0	6139.4	1802.7	255.6	152.2	103.4	70.9	56.1	48.8	42.9	42.9
70°	7156.0	5353.3	1186.5	215.7	135.9	90.1	63.5	48.8	41.4	35.5	34.0
72.5°	6099.5	4277.6	602.9	184.7	116.7	79.8	56.1	42.9	35.5	29.6	28.1
75°	4678.1	2881.3	375.3	147.8	91.6	70.9	50.2	38.4	29.6	22.2	20.7
77.5°	2789.7	1159.9	266.0	103.4	62.1	56.1	41.4	31.0	23.6	16.3	16.3
80°	880.6	512.7	180.3	70.9	39.9	38.4	31.0	22.2	16.3	11.8	11.8
82.5°	497.9	325.1	121.2	47.3	28.1	25.1	17.7	13.3	10.3	8.9	8.9
85°	82.7	65.0	36.9	17.7	13.3	11.8	7.4	4.4	3.0	1.5	3.0
87.5°	4.4	4.4	5.9	5.9	5.9	4.4	3.0	0.0	0.0	0.0	0.0
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)