

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: P233935

Luminaire Tested: **VERD-G-C02-D-U-T3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02-D-U-T3-7030-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1175mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15463 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 138
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: 28.75 FT

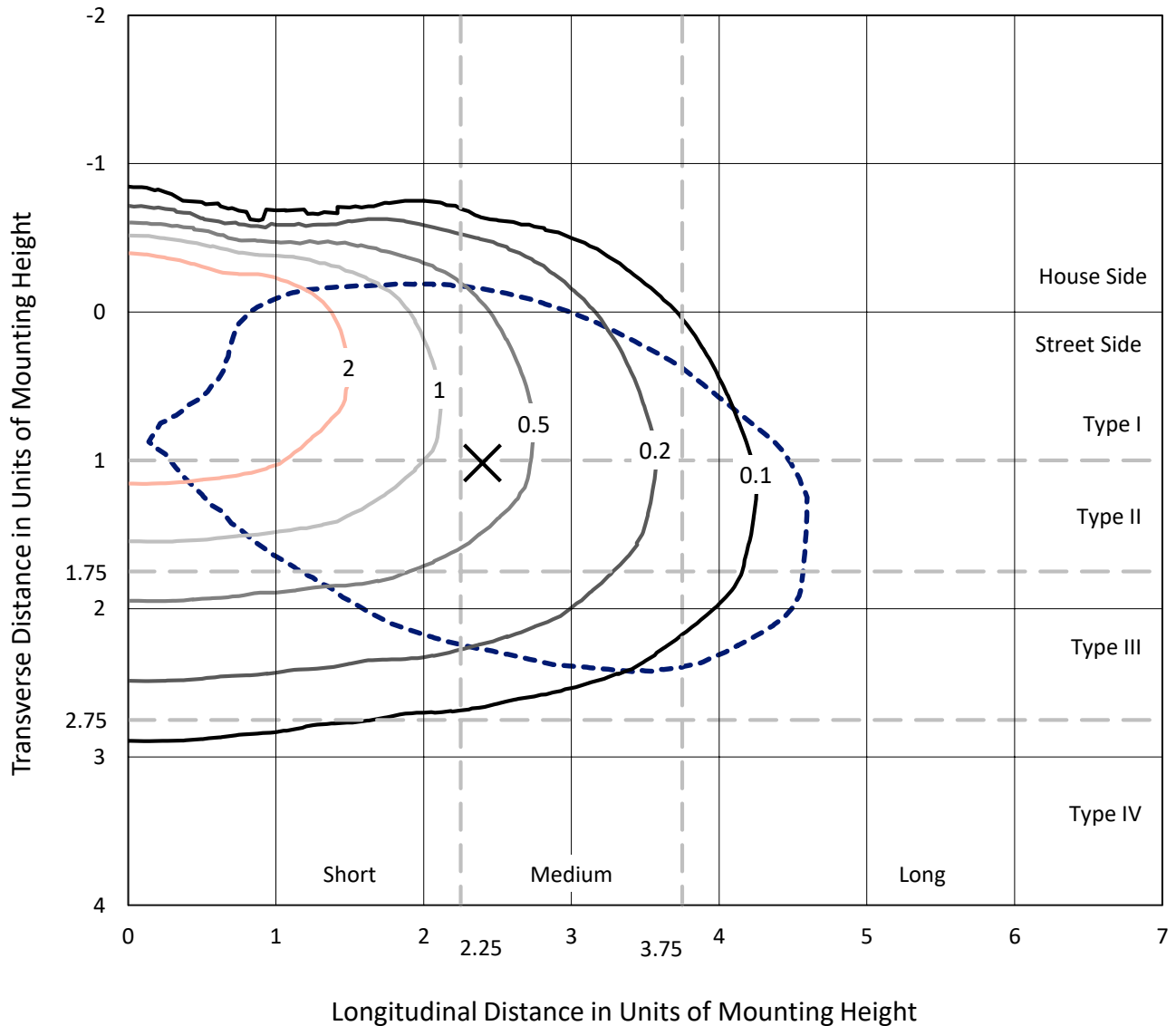


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

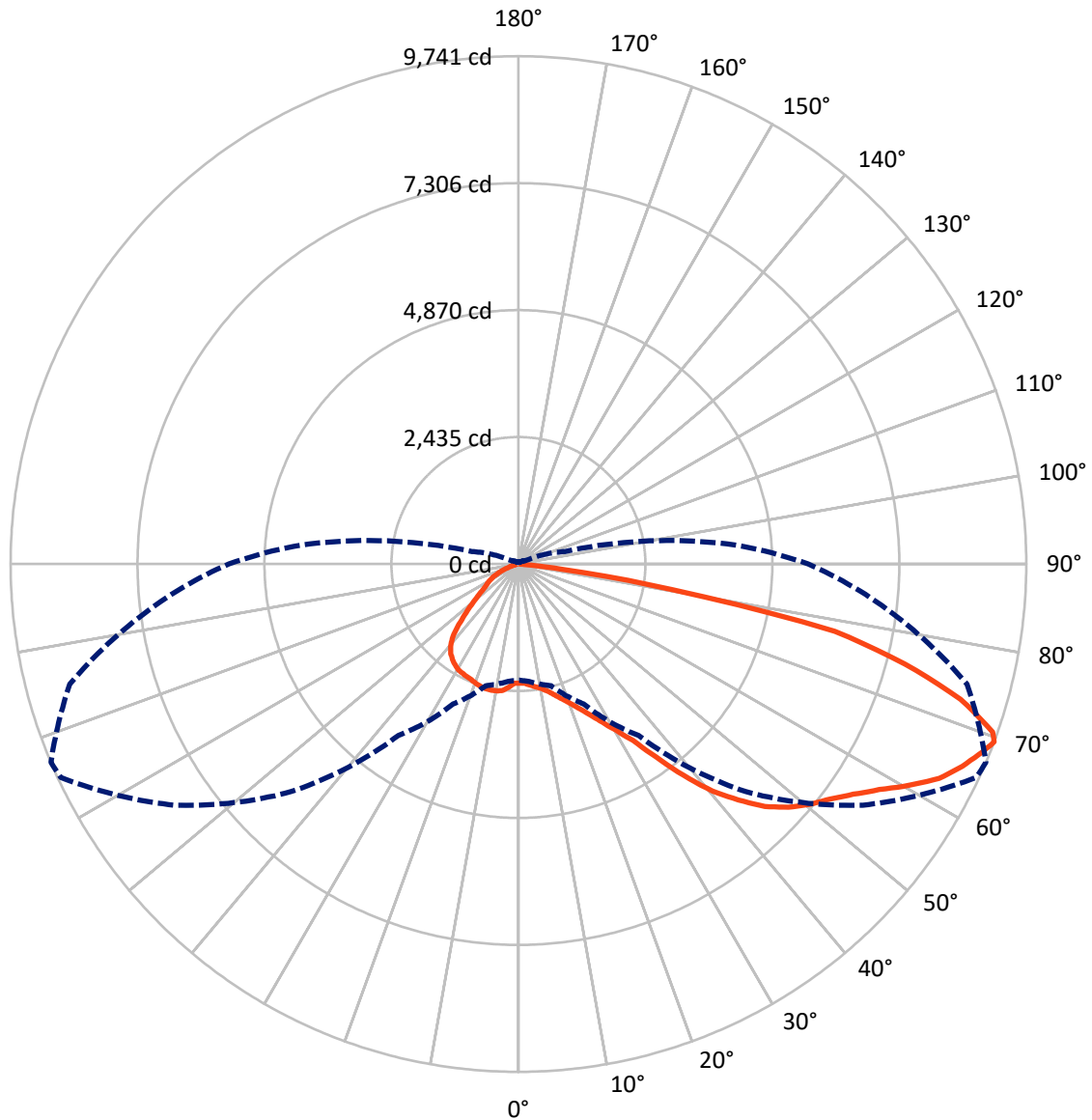


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2787.5	0.0	2787.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	12675.5	0.0	12675.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	15463.0	0.0	15463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	1.5
10°-20°	725.9	4.7
20°-30°	1239.0	8.0
30°-40°	1873.4	12.1
40°-50°	2646.6	17.1
50°-60°	3198.5	20.7
60°-70°	3375.0	21.8
70°-80°	2031.7	13.1
80°-90°	142.0	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°	15463.0	100.0
0°-180°	15463.0	100.0

Coefficient of Utilization



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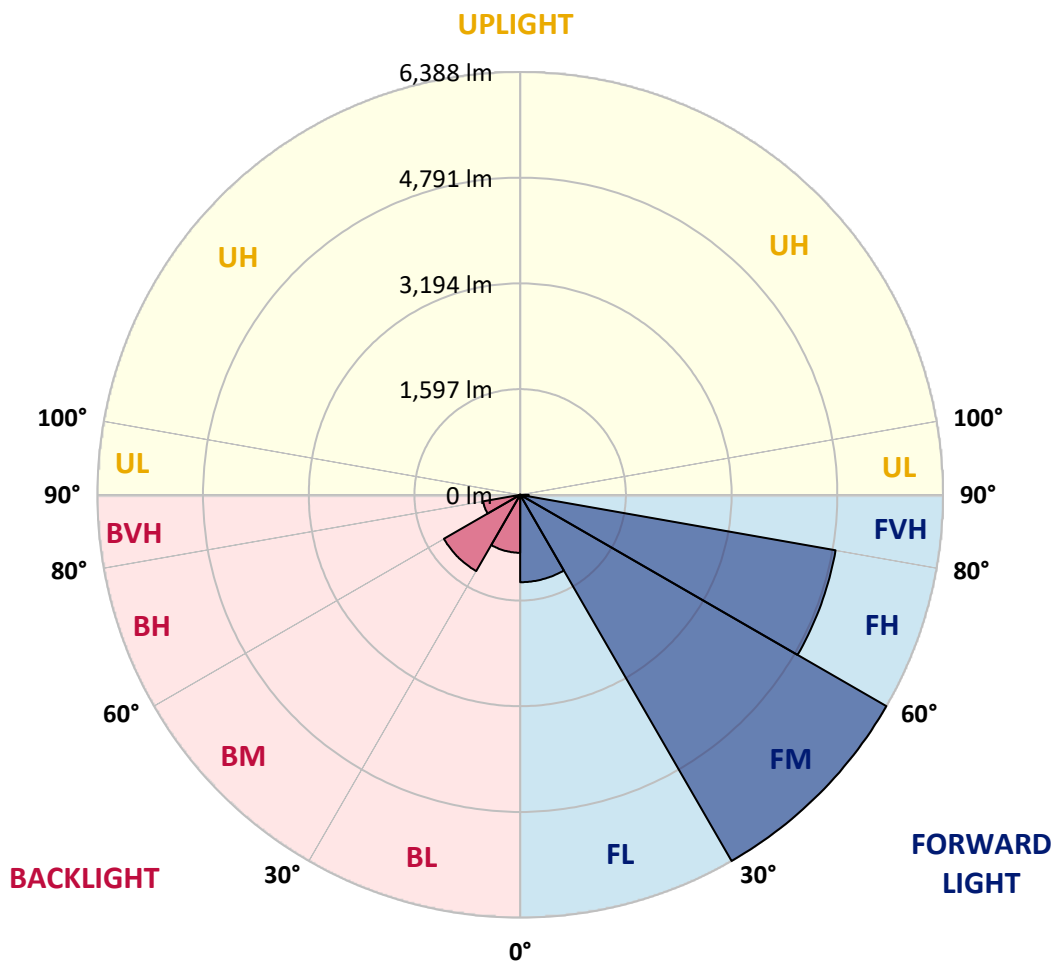
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1320.4	8.5			
FM	(30°-60°)	6388.5	41.3			
FH	(60°-80°)	4838.4	31.3			G2/5000
FVH	(80°-90°)	128.2	0.8			G2/225
BL	(0°-30°)	875.4	5.7	B2/1000		
BM	(30°-60°)	1330.0	8.6	B2/2500		
BH	(60°-80°)	568.3	3.7	B2/1000		G2/1000
BVH	(80°-90°)	13.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2286.7	2286.7	2286.7	2286.7	2286.7	2286.7	2286.7	2286.7	2286.7	2286.7	2286.7
2.5°	2345.9	2342.2	2342.2	2321.2	2301.5	2296.6	2295.4	2289.2	2290.4	2281.8	2273.2
5°	2413.6	2413.6	2411.2	2384.1	2363.1	2349.6	2341.0	2329.9	2331.1	2324.9	2317.5
7.5°	2515.9	2517.1	2512.2	2476.5	2455.5	2422.3	2402.6	2381.6	2380.4	2373.0	2375.5
10°	2641.6	2645.3	2637.9	2592.3	2556.6	2511.0	2469.1	2432.1	2429.7	2421.0	2428.4
12.5°	2783.3	2788.2	2769.7	2722.9	2682.2	2610.8	2560.3	2511.0	2503.6	2502.4	2507.3
15°	2945.9	2948.4	2942.2	2873.2	2823.9	2758.6	2676.1	2613.2	2605.9	2607.1	2600.9
17.5°	3127.0	3133.2	3119.6	3058.0	2992.7	2902.8	2804.2	2726.6	2722.9	2719.2	2692.1
20°	3319.2	3325.4	3316.8	3258.9	3181.2	3067.9	2947.1	2858.4	2857.2	2848.6	2785.7
22.5°	3536.1	3544.7	3539.8	3469.5	3387.0	3263.8	3113.5	3021.1	3018.6	2991.5	2896.6
25°	3771.4	3768.9	3773.9	3698.7	3621.1	3491.7	3305.7	3209.6	3209.6	3176.3	3035.9
27.5°	3999.3	3998.1	4006.7	3953.8	3872.4	3750.5	3526.2	3428.9	3437.5	3389.5	3203.4
30°	4221.1	4221.1	4242.1	4207.6	4147.2	4019.1	3799.7	3697.5	3708.6	3658.1	3415.3
32.5°	4428.1	4438.0	4473.7	4452.7	4407.2	4291.3	4104.1	4010.4	4036.3	4057.2	3809.6
35°	4580.9	4590.7	4673.3	4680.7	4669.6	4592.0	4452.7	4513.1	4543.9	4709.0	4433.0
37.5°	4715.2	4727.5	4826.1	4887.7	4923.4	4875.3	4884.0	5086.0	5143.9	5338.6	4965.3
40°	4813.7	4840.9	4938.2	5023.2	5148.9	5205.5	5346.0	5633.1	5726.7	5804.3	5331.2
42.5°	4746.0	4764.5	4935.7	5163.7	5347.2	5546.8	5774.8	6116.1	6186.3	6161.6	5654.0
45°	4646.2	4668.4	4848.2	5200.6	5504.9	5902.9	6181.4	6551.0	6631.1	6494.3	5932.5
47.5°	4534.1	4564.9	4759.5	5151.3	5636.8	6230.6	6549.7	6924.3	6971.1	6791.2	6166.6
50°	4420.7	4455.2	4675.8	5110.7	5739.0	6504.2	6818.3	7228.6	7242.2	7037.7	6377.3
52.5°	4267.9	4303.7	4545.2	5025.7	5810.5	6684.0	7053.7	7478.7	7487.4	7303.8	6576.9
55°	4074.5	4120.1	4375.1	4900.0	5827.7	6788.8	7202.8	7738.7	7796.6	7592.1	6740.7
57.5°	3846.6	3888.5	4169.4	4718.9	5741.5	6824.5	7411.0	8082.5	8162.5	7884.1	6876.3
60°	3584.1	3632.2	3914.3	4484.8	5567.8	6924.3	7756.0	8567.9	8616.0	8189.7	6995.8
62.5°	3315.5	3350.0	3606.3	4155.8	5296.7	6984.7	8061.5	9023.8	9055.8	8484.1	7067.2
65°	2933.6	2976.7	3226.8	3778.8	4906.2	6868.9	8178.6	9335.5	9355.2	8730.5	7032.7
67.5°	2518.4	2552.9	2735.2	3324.2	4393.6	6501.7	8130.5	9543.7	9606.5	8922.7	6876.3
69°	2223.9	2258.4	2416.1	2960.7	4012.9	6176.4	8062.7	9685.4	9740.8	8909.2	6676.7
70°	1994.7	2029.2	2178.3	2689.6	3714.7	5901.7	7955.6	9613.9	9649.7	8757.6	6482.0
72.5°	1426.8	1461.2	1583.2	1891.2	2814.1	4850.7	7291.5	8820.5	8868.5	8029.5	5793.3
75°	746.6	829.2	1048.5	1222.2	1667.0	3415.3	6061.8	7585.9	7656.2	7046.3	4764.5
77.5°	96.1	101.0	295.7	496.5	688.7	1440.3	4306.1	6091.4	6202.3	5639.2	3294.6
80°	77.6	78.9	102.3	247.6	342.5	584.0	1527.8	2851.0	2985.3	2506.1	1211.1
82.5°	54.2	56.7	80.1	130.6	112.1	213.2	531.0	805.8	830.4	718.3	483.0
85°	30.8	30.8	38.2	50.5	35.7	80.1	109.7	117.0	104.7	103.5	77.6
87.5°	8.6	9.9	11.1	8.6	3.7	3.7	4.9	4.9	4.9	3.7	3.7
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°	2286.7	2286.7	2286.7	2286.7	2286.7	2286.7	2286.7	2286.7	2286.7	2286.7	2286.7
2.5°	2286.7	2284.3	2285.5	2290.4	2297.8	2324.9	2343.4	2345.9	2354.5	2386.5	2382.8
5°	2326.2	2341.0	2349.6	2375.5	2392.7	2429.7	2451.8	2454.3	2466.6	2499.9	2501.1
7.5°	2381.6	2406.3	2418.6	2448.1	2454.3	2471.6	2477.7	2471.6	2472.8	2502.4	2504.8
10°	2429.7	2460.5	2460.5	2467.9	2456.8	2458.0	2438.3	2419.8	2410.0	2435.8	2442.0
12.5°	2503.6	2512.2	2492.5	2470.3	2437.1	2407.5	2374.2	2344.7	2321.2	2336.0	2327.4
15°	2580.0	2566.4	2518.4	2460.5	2401.3	2350.8	2281.8	2238.7	2198.0	2206.7	2199.3
17.5°	2656.4	2612.0	2536.9	2440.8	2354.5	2258.4	2162.3	2094.5	2020.6	2014.5	2003.4
20°	2730.3	2666.2	2541.8	2400.1	2279.4	2143.8	1994.7	1878.9	1769.3	1740.9	1722.5
22.5°	2819.0	2726.6	2547.9	2360.7	2198.0	2013.2	1787.8	1607.9	1489.6	1450.2	1431.7
25°	2932.4	2810.4	2565.2	2331.1	2115.5	1851.8	1542.6	1336.8	1208.7	1140.9	1134.7
27.5°	3066.7	2911.4	2594.8	2292.9	1998.4	1636.2	1288.8	1074.4	937.6	868.6	846.4
30°	3242.8	3037.1	2621.9	2263.3	1833.3	1400.9	1022.6	783.6	621.0	576.6	553.2
32.5°	3576.7	3241.6	2656.4	2194.3	1638.7	1143.4	724.5	483.0	372.1	342.5	342.5
35°	4120.1	3691.3	2742.6	2099.5	1404.6	832.9	434.9	271.1	221.8	204.5	195.9
37.5°	4610.5	4144.7	2958.2	1952.9	1120.0	492.8	248.9	167.6	151.5	154.0	154.0
40°	4956.7	4455.2	3196.0	1754.5	760.2	263.7	157.7	134.3	136.8	138.0	138.0
42.5°	5253.6	4720.1	3326.6	1519.2	414.0	171.3	135.5	122.0	125.7	124.4	123.2
45°	5502.5	4935.7	3369.7	1195.1	200.8	151.5	123.2	112.1	112.1	110.9	110.9
47.5°	5715.6	5126.7	3289.7	888.3	162.6	139.2	117.0	103.5	102.3	108.4	108.4
50°	5910.3	5274.5	3090.1	672.7	157.7	128.1	110.9	96.1	97.3	106.0	106.0
52.5°	6072.9	5362.0	2794.4	503.9	146.6	118.3	102.3	89.9	89.9	98.6	98.6
55°	6193.7	5362.0	2568.9	377.0	140.5	108.4	94.9	86.2	81.3	83.8	85.0
57.5°	6254.0	5261.0	2387.8	305.6	133.1	98.6	87.5	75.2	66.5	69.0	67.8
60°	6238.0	5203.1	2179.6	272.3	124.4	91.2	77.6	64.1	55.4	53.0	53.0
62.5°	6208.5	5137.8	1919.6	236.6	115.8	85.0	64.1	51.7	46.8	44.4	45.6
65°	6096.3	4925.9	1590.6	197.1	107.2	82.5	54.2	45.6	40.7	38.2	38.2
67.5°	5825.3	4543.9	1202.5	166.3	99.8	66.5	46.8	39.4	34.5	32.0	32.0
69°	5556.7	4179.2	922.8	151.5	94.9	60.4	43.1	35.7	32.0	28.3	28.3
70°	5325.1	3897.1	723.2	141.7	91.2	57.9	41.9	34.5	30.8	27.1	27.1
72.5°	4534.1	3091.3	367.2	123.2	76.4	50.5	37.0	30.8	25.9	22.2	22.2
75°	3517.6	2130.3	242.7	97.3	59.1	45.6	33.3	27.1	22.2	18.5	17.2
77.5°	2116.7	832.9	173.7	62.8	38.2	35.7	27.1	22.2	18.5	14.8	14.8
80°	584.0	357.3	117.0	41.9	22.2	23.4	19.7	16.0	13.6	11.1	11.1
82.5°	351.1	231.6	77.6	27.1	14.8	14.8	11.1	11.1	8.6	8.6	8.6
85°	60.4	46.8	18.5	11.1	8.6	8.6	6.2	3.7	3.7	3.7	3.7
87.5°	3.7	3.7	3.7	4.9	4.9	3.7	2.5	1.2	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)