

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: P233854

Luminaire Tested: **VERD-G-C029-D-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C029-D-U-T3-7030
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1040mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15179 lumens
Efficiency: N/A
Efficacy: 125.4 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

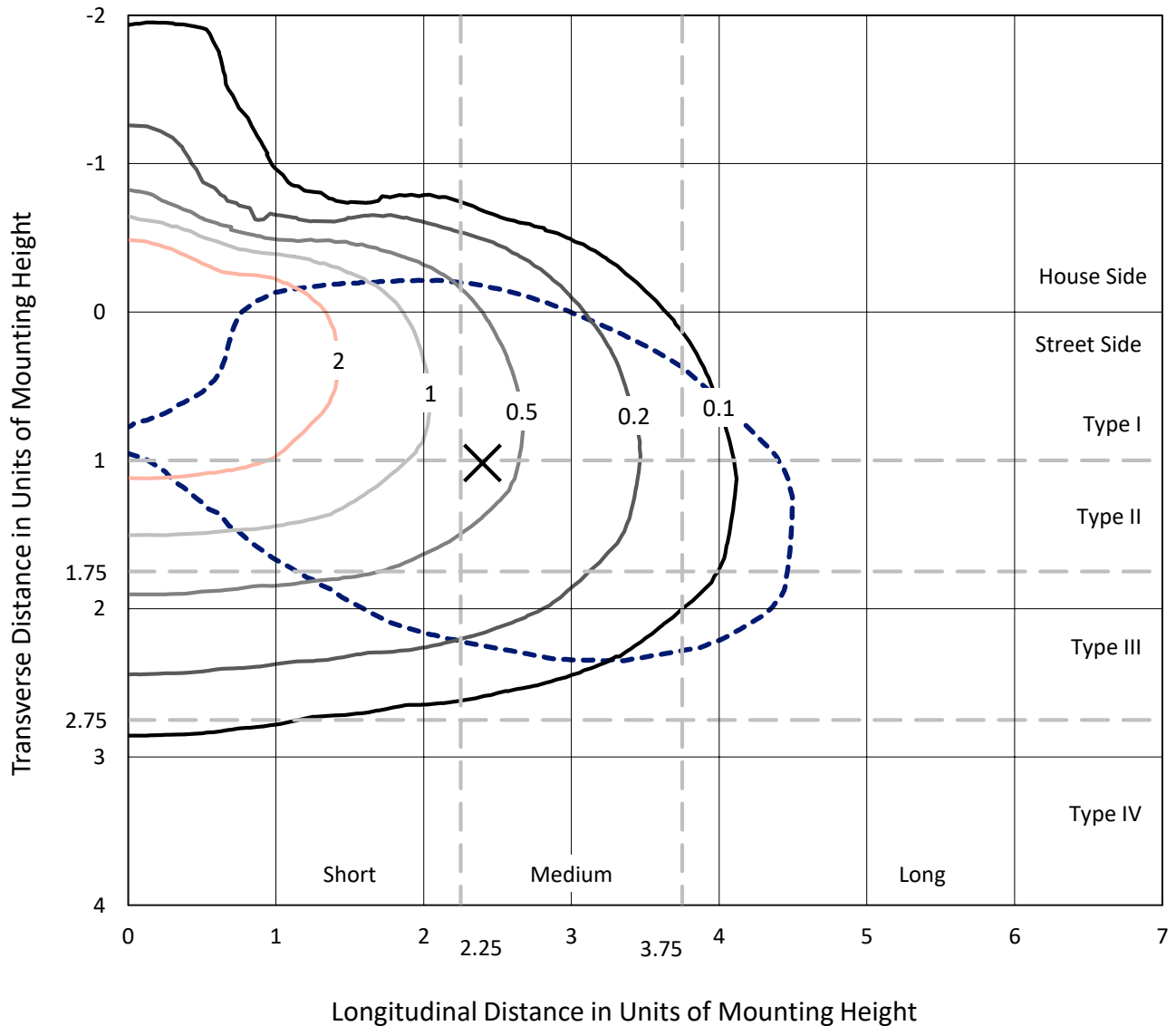
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

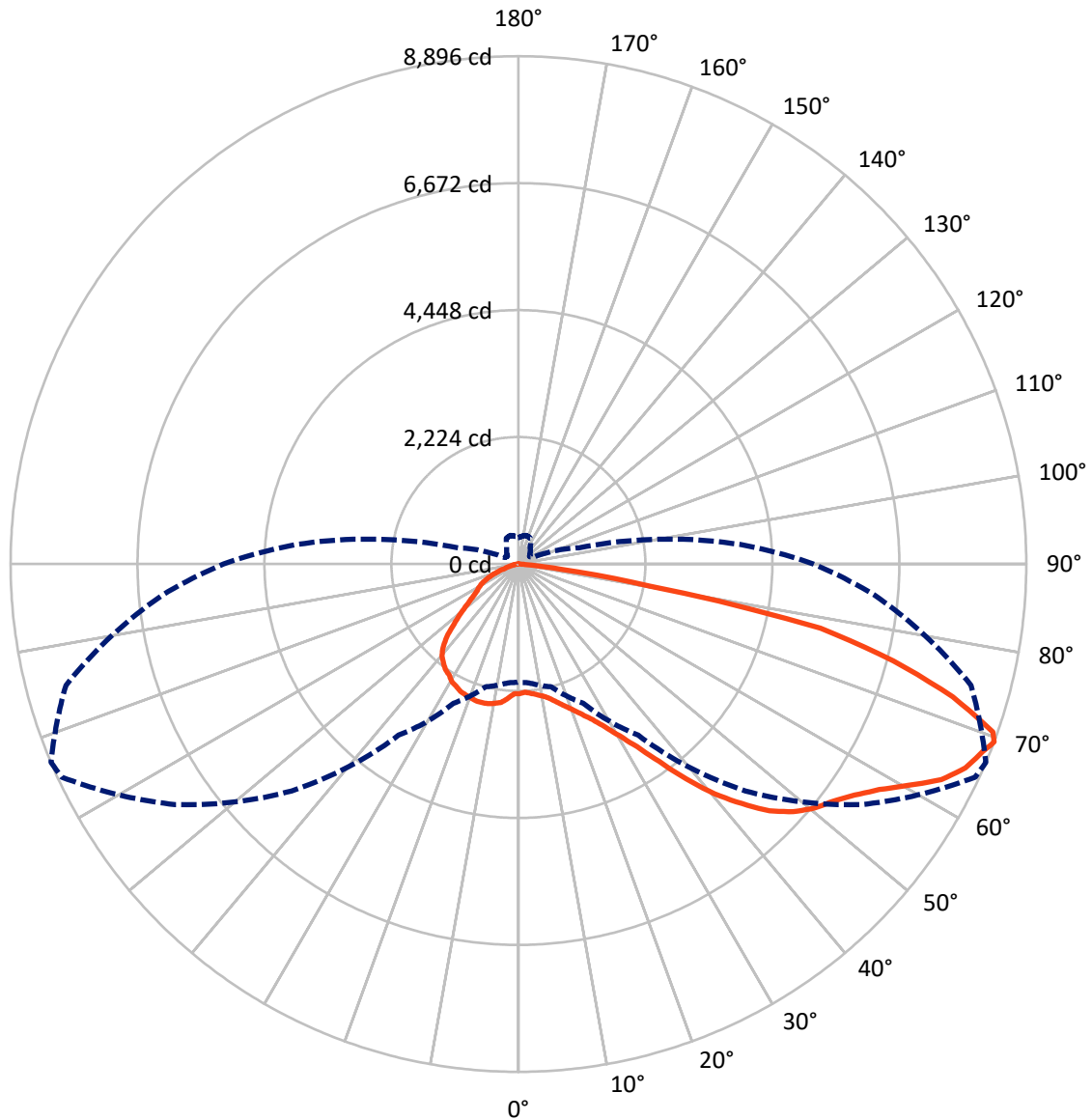


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - Semi-Cutoff

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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	3418.2	0.0	3418.2
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	11760.9	0.0	11760.9
	% Fixture	77.5	0.0	77.5
Total	Lumens	15179.0	0.0	15179.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	1.5
10°-20°	732.9	4.8
20°-30°	1262.6	8.3
30°-40°	1877.9	12.4
40°-50°	2586.3	17.0
50°-60°	3091.7	20.4
60°-70°	3262.7	21.5
70°-80°	1955.2	12.9
80°-90°	179.8	1.2
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°	15179.0	100.0
0°-180°	15179.0	100.0



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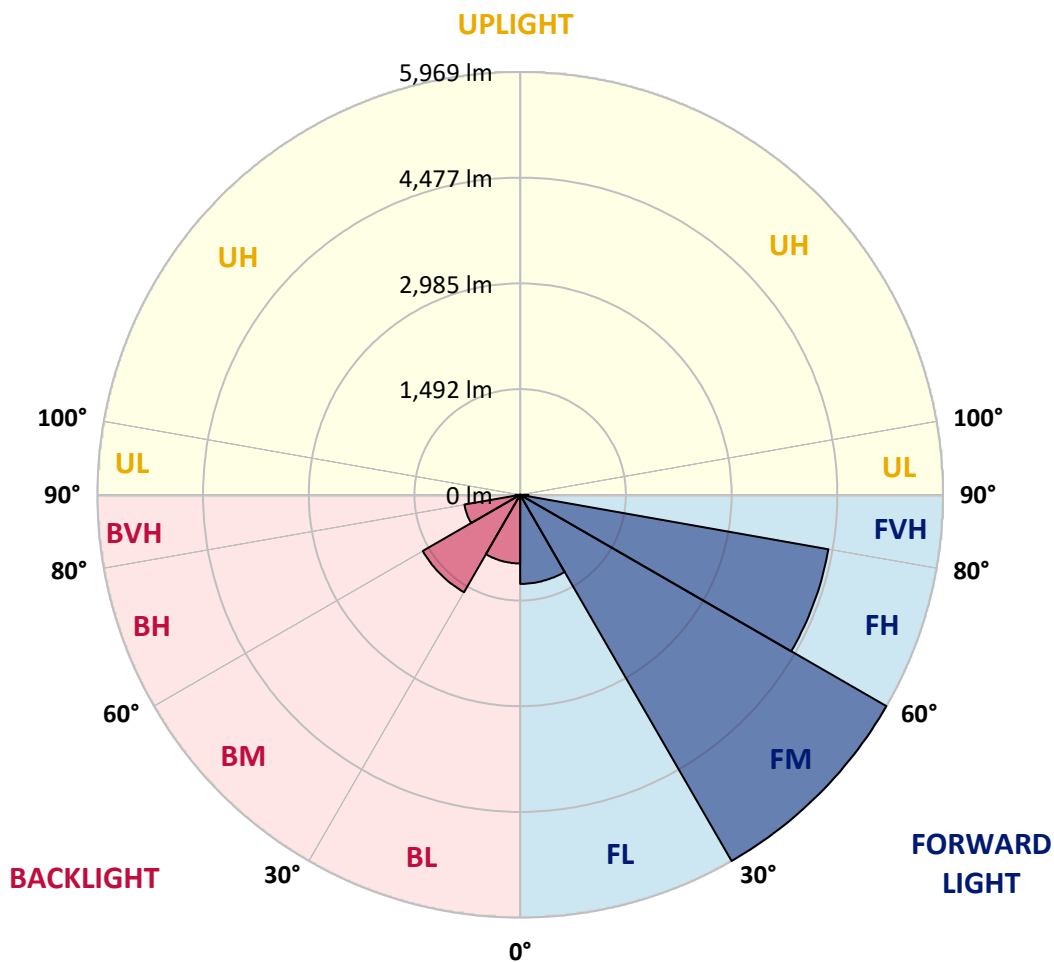
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1256.9	8.3			
FM	(30°-60°)	5969.1	39.3			
FH	(60°-80°)	4418.6	29.1			G2/5000
FVH	(80°-90°)	116.3	0.8			G2/225
BL	(0°-30°)	968.5	6.4	B2/1000		
BM	(30°-60°)	1586.9	10.5	B2/2500		
BH	(60°-80°)	799.2	5.3	B2/1000		G2/1000
BVH	(80°-90°)	63.5	0.4			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°	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5
2.5°	2307.7	2306.4	2299.5	2274.6	2271.8	2269.1	2252.5	2253.9	2249.8	2253.9	2255.3
5°	2371.2	2365.7	2358.8	2332.6	2322.9	2310.5	2285.6	2284.3	2274.6	2277.4	2280.1
7.5°	2449.9	2444.4	2438.9	2408.5	2398.8	2376.7	2338.1	2318.8	2310.5	2313.3	2317.4
10°	2556.2	2546.5	2538.2	2494.1	2478.9	2441.6	2394.7	2361.6	2350.5	2354.7	2365.7
12.5°	2677.6	2665.2	2651.4	2605.9	2585.2	2527.2	2472.0	2429.2	2412.6	2422.3	2430.6
15°	2803.2	2796.3	2790.8	2737.0	2708.0	2644.5	2575.5	2521.7	2506.5	2514.8	2518.9
17.5°	2968.9	2964.7	2955.1	2899.8	2844.6	2771.5	2681.8	2625.2	2610.0	2614.1	2604.5
20°	3149.7	3138.6	3133.1	3071.0	3013.0	2912.3	2808.8	2728.7	2724.6	2725.9	2695.6
22.5°	3352.6	3340.1	3329.1	3272.5	3200.7	3083.4	2948.2	2858.4	2861.2	2864.0	2796.3
25°	3559.6	3549.9	3540.3	3486.4	3414.7	3286.3	3123.4	3022.7	3021.3	3022.7	2928.8
27.5°	3776.3	3765.2	3763.9	3719.7	3647.9	3516.8	3329.1	3227.0	3227.0	3221.4	3079.3
30°	3969.5	3980.6	3980.6	3955.7	3888.1	3757.0	3580.3	3478.2	3492.0	3480.9	3300.1
32.5°	4180.7	4177.9	4197.3	4177.9	4122.7	4001.3	3853.6	3788.7	3812.2	3848.1	3667.3
35°	4303.5	4322.9	4371.2	4398.8	4372.5	4273.2	4165.5	4215.2	4246.9	4408.4	4191.7
37.5°	4445.7	4462.3	4528.5	4596.1	4607.2	4553.4	4553.4	4716.2	4778.3	4989.5	4736.9
40°	4543.7	4560.3	4632.0	4710.7	4818.4	4855.6	4952.2	5204.8	5293.2	5435.3	5142.7
42.5°	4485.7	4494.0	4648.6	4840.4	4999.2	5178.6	5331.8	5652.0	5736.2	5835.6	5476.7
45°	4383.6	4398.8	4569.9	4879.1	5152.4	5508.5	5701.7	6073.0	6169.6	6159.9	5733.4
47.5°	4270.4	4293.9	4484.3	4829.4	5283.5	5794.2	6039.9	6426.3	6481.5	6412.5	5911.5
50°	4144.8	4184.8	4387.7	4779.7	5378.7	6044.0	6291.1	6691.3	6720.3	6579.5	6067.5
52.5°	4001.3	4027.5	4252.5	4684.5	5445.0	6209.6	6491.2	6888.7	6901.1	6786.6	6231.7
55°	3802.5	3826.0	4075.8	4557.5	5454.6	6307.6	6619.5	7099.9	7141.3	7029.5	6380.8
57.5°	3588.6	3617.6	3874.3	4373.9	5366.3	6347.6	6774.1	7371.8	7451.8	7291.7	6500.8
60°	3340.1	3377.4	3636.9	4150.3	5192.4	6409.8	7062.6	7767.9	7867.3	7588.5	6615.4
62.5°	3082.0	3102.7	3341.5	3841.2	4921.9	6441.5	7324.8	8220.6	8315.8	7868.6	6669.2
65°	2719.0	2752.2	2964.7	3469.9	4540.9	6304.9	7447.7	8536.7	8605.7	8096.4	6616.8
67.5°	2334.0	2334.0	2514.8	3025.4	4033.0	5943.2	7398.0	8688.5	8771.3	8256.5	6451.2
69°	2067.6	2088.3	2226.3	2691.4	3660.3	5621.6	7344.2	8827.9	8895.5	8205.4	6260.7
70°	1863.3	1881.2	2020.6	2448.5	3382.9	5367.7	7228.2	8765.8	8815.5	8048.1	6060.6
72.5°	1370.6	1385.7	1482.4	1706.0	2543.7	4331.1	6517.4	7925.2	7955.6	7237.9	5347.0
75°	934.4	942.7	1015.8	1152.5	1483.7	3028.2	5324.9	6694.1	6783.8	6277.3	4378.1
77.5°	323.0	347.8	392.0	530.0	634.9	1189.8	3609.3	5275.2	5409.1	4861.1	3062.7
80°	110.4	109.0	209.8	271.9	334.0	546.6	1141.4	2211.1	2336.7	2004.1	1102.8
82.5°	82.8	85.6	139.4	150.4	102.1	201.5	444.4	676.3	741.2	647.3	456.9
85°	52.4	51.1	62.1	64.9	46.9	85.6	107.7	109.0	113.2	98.0	99.4
87.5°	29.0	29.0	27.6	23.5	12.4	11.0	9.7	9.7	8.3	8.3	8.3
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°	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5
2.5°	2248.4	2267.7	2271.8	2277.4	2291.2	2309.1	2334.0	2334.0	2343.6	2372.6	2382.3
5°	2280.1	2303.6	2334.0	2365.7	2403.0	2443.0	2483.0	2496.8	2516.1	2554.8	2563.1
7.5°	2328.4	2354.7	2407.1	2449.9	2481.6	2521.7	2554.8	2560.3	2585.2	2621.0	2627.9
10°	2378.1	2401.6	2454.0	2476.1	2518.9	2563.1	2579.6	2587.9	2608.6	2636.2	2632.1
12.5°	2445.8	2452.7	2489.9	2505.1	2525.8	2553.4	2561.7	2561.7	2574.1	2618.3	2619.7
15°	2512.0	2512.0	2517.5	2509.2	2512.0	2525.8	2527.2	2509.2	2523.0	2545.1	2536.8
17.5°	2582.4	2563.1	2538.2	2502.3	2470.6	2469.2	2440.2	2397.4	2385.0	2416.8	2415.4
20°	2648.6	2615.5	2556.2	2474.7	2430.6	2371.2	2298.1	2273.2	2271.8	2277.4	2273.2
22.5°	2735.6	2668.0	2560.3	2448.5	2327.1	2233.2	2172.5	2088.3	2085.5	2073.1	2053.8
25°	2839.1	2742.5	2578.3	2419.5	2242.9	2121.4	1975.1	1885.4	1834.3	1845.4	1812.2
27.5°	2973.0	2855.7	2585.2	2356.0	2126.9	1921.3	1744.6	1628.7	1584.5	1565.2	1543.1
30°	3156.6	2975.8	2634.8	2302.2	1983.4	1711.5	1494.8	1326.4	1262.9	1279.5	1282.2
32.5°	3450.6	3203.5	2661.1	2195.9	1817.8	1482.4	1200.8	1018.6	981.3	1028.3	1040.7
35°	3962.6	3556.8	2723.2	2132.4	1628.7	1214.6	893.0	818.5	826.8	866.8	869.5
37.5°	4466.4	4004.0	2915.0	1994.4	1402.3	899.9	692.9	652.8	692.9	743.9	750.8
40°	4819.7	4353.2	3084.8	1857.8	1084.9	651.5	528.6	480.3	538.3	619.7	634.9
42.5°	5133.0	4630.6	3204.9	1668.7	742.6	465.1	379.6	392.0	477.6	536.9	550.7
45°	5358.0	4821.1	3287.7	1423.0	473.4	352.0	339.5	379.6	461.0	507.9	512.1
47.5°	5500.2	4932.9	3227.0	1120.7	356.1	332.6	334.0	385.1	466.5	519.0	517.6
50°	5628.5	4992.3	3029.6	888.9	338.2	318.8	340.9	400.3	484.5	532.8	530.0
52.5°	5765.2	5050.2	2789.4	697.0	324.4	311.9	349.2	409.9	484.5	514.8	510.7
55°	5882.5	5101.3	2608.6	560.4	314.7	310.6	357.5	425.1	481.7	494.1	485.8
57.5°	5943.2	5014.3	2412.6	470.7	305.0	310.6	363.0	422.3	498.3	538.3	530.0
60°	5910.1	4932.9	2253.9	437.5	291.2	309.2	365.8	452.7	611.4	648.7	645.9
62.5°	5849.4	4843.2	2031.7	393.4	276.0	311.9	364.4	480.3	703.9	691.5	657.0
65°	5725.2	4663.8	1728.0	342.3	260.9	317.5	364.4	541.0	614.2	600.4	585.2
67.5°	5460.2	4275.9	1383.0	294.0	244.3	300.9	358.9	514.8	528.6	492.7	474.8
69°	5163.4	3906.0	1094.5	267.8	234.6	292.6	357.5	496.9	520.3	481.7	461.0
70°	4931.5	3617.6	884.7	248.4	225.0	289.8	356.1	484.5	516.2	473.4	451.3
72.5°	4107.5	2923.3	463.8	200.1	191.9	263.6	343.7	473.4	517.6	454.1	422.3
75°	3227.0	2080.0	307.8	153.2	147.7	230.5	314.7	455.5	487.2	408.5	360.2
77.5°	1990.3	910.9	212.6	106.3	107.7	179.4	270.5	407.2	491.4	412.7	350.6
80°	578.3	352.0	135.3	71.8	66.3	106.3	212.6	350.6	466.5	423.7	382.3
82.5°	334.0	229.1	91.1	45.5	40.0	48.3	133.9	271.9	411.3	387.8	396.1
85°	75.9	63.5	33.1	22.1	22.1	27.6	45.5	157.3	284.3	332.6	375.4
87.5°	8.3	8.3	8.3	8.3	8.3	6.9	8.3	42.8	124.2	176.7	205.7
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)