

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: P233851

Luminaire Tested: **VERD-G-C02-D-U-T3-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233851
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-C02-D-U-T3-8027
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1175mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15164 lumens
Efficiency: N/A
Efficacy: 109.9 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

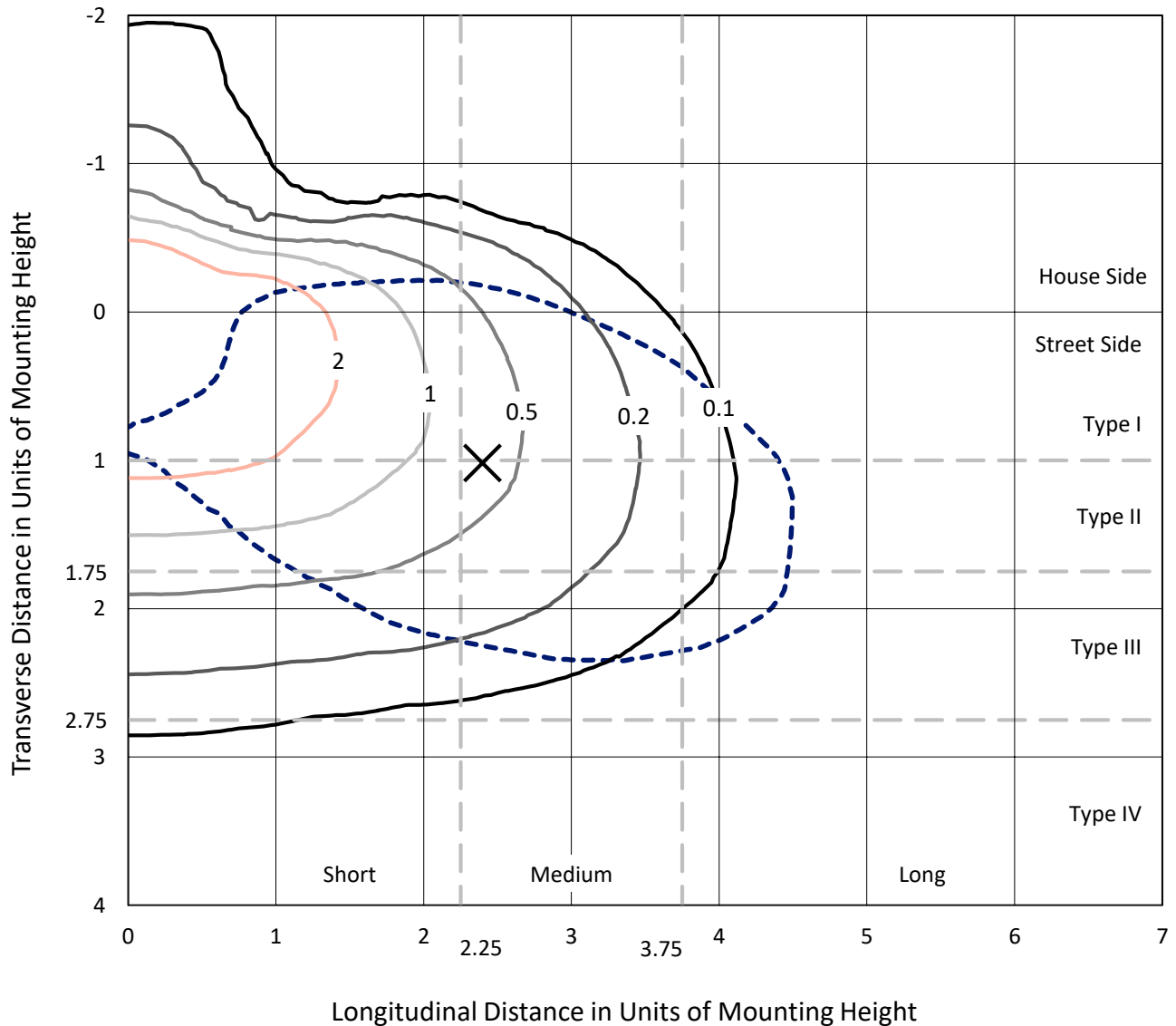


REPORT NUMBER: P233851

CATALOG NUMBER: VERD-G-C02-D-U-T3-8027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

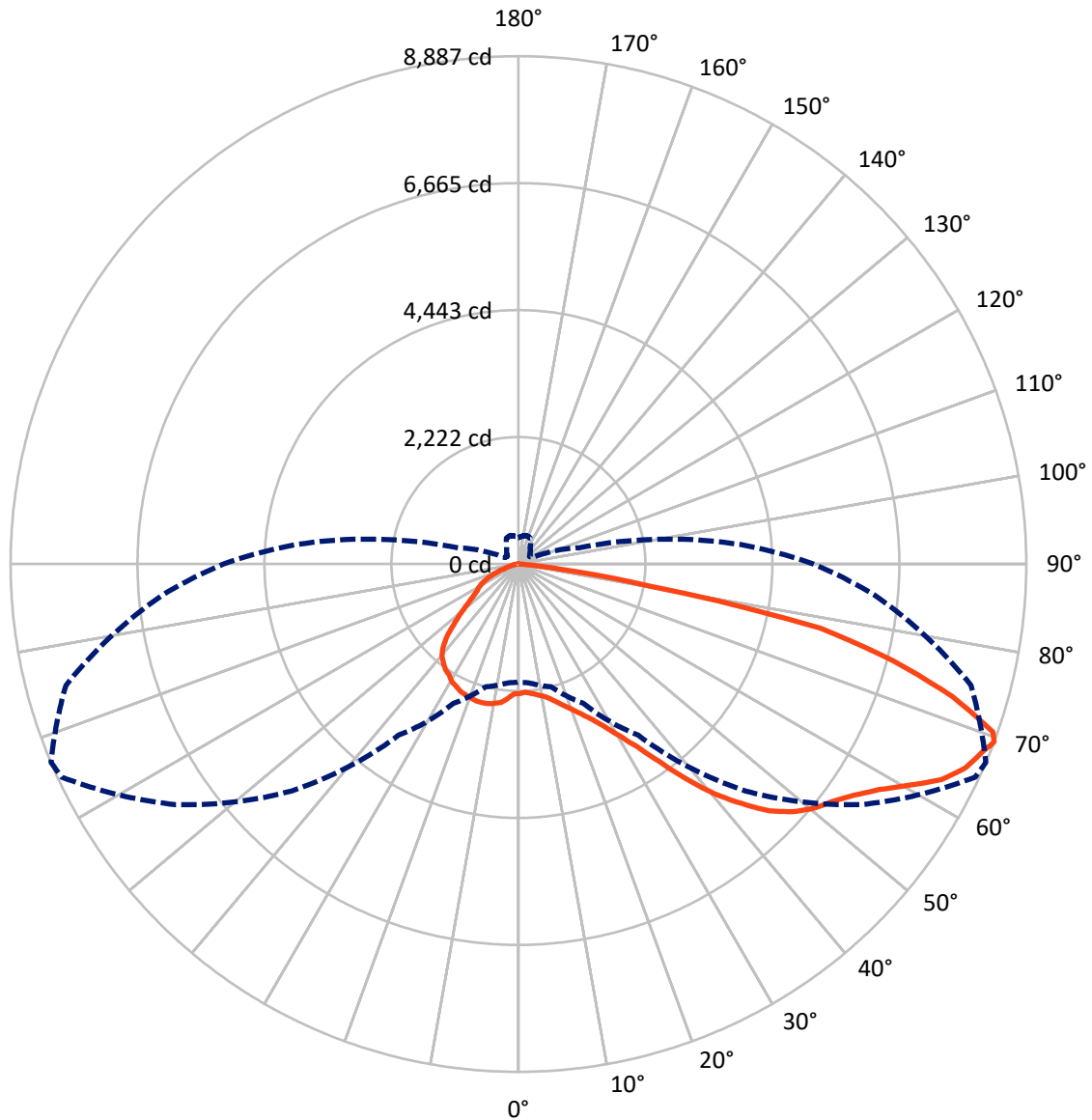


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P233851

CATALOG NUMBER: VERD-G-C02-D-U-T3-8027

Luminous Intensity Polar Plot



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



REPORT NUMBER: P233851

CATALOG NUMBER: VERD-G-C02-D-U-T3-8027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3414.8	0.0	3414.8
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	11749.2	0.0	11749.2
	% Fixture	77.5	0.0	77.5
Total	Lumens	15164.0	0.0	15164.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	1.5
10°-20°	732.2	4.8
20°-30°	1261.3	8.3
30°-40°	1876.0	12.4
40°-50°	2583.7	17.0
50°-60°	3088.7	20.4
60°-70°	3259.4	21.5
70°-80°	1953.2	12.9
80°-90°	179.7	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°	15164.0	100.0
0°-180°	15164.0	100.0



REPORT NUMBER: P233851

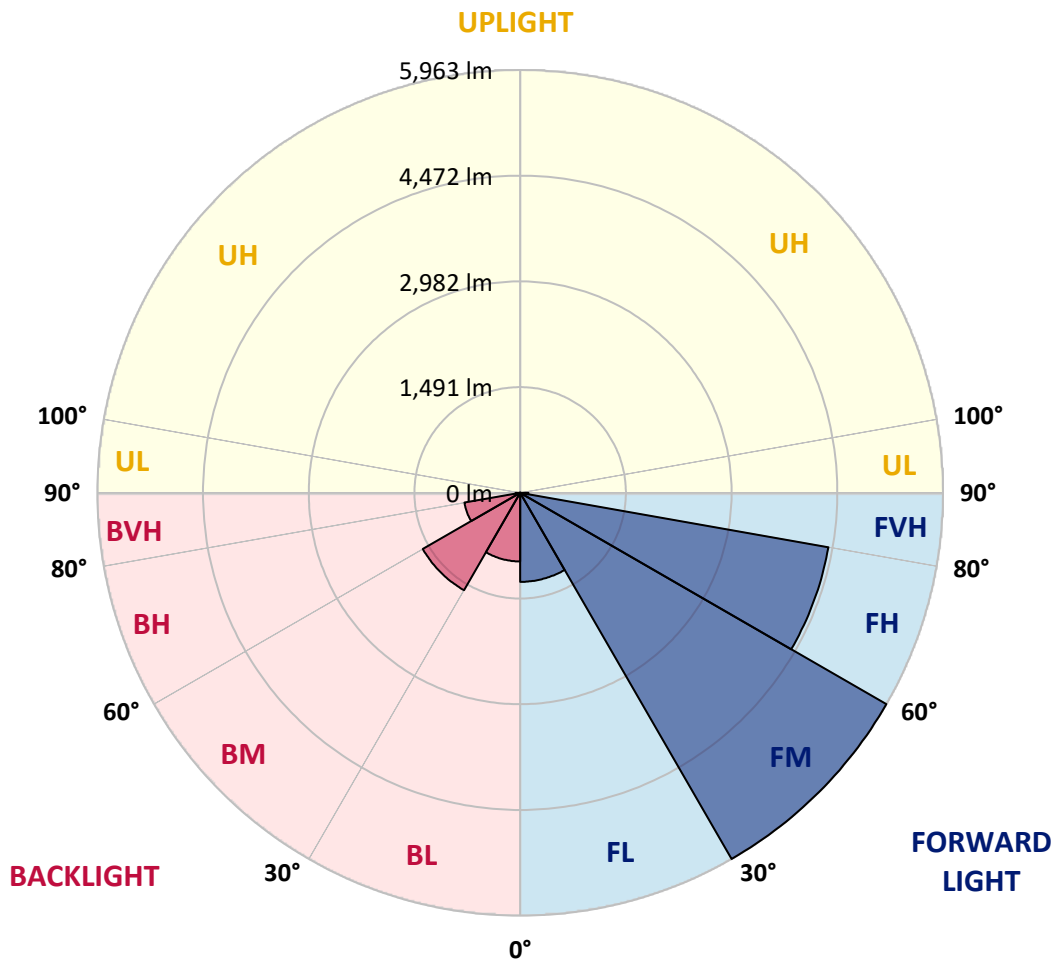
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.6	8.3			
FM (30°-60°)	5963.2	39.3			
FH (60°-80°)	4414.2	29.1			G2/5000
FVH (80°-90°)	116.2	0.8			G2/225
BL (0°-30°)	967.6	6.4	B2/1000		
BM (30°-60°)	1585.3	10.5	B2/2500		
BH (60°-80°)	798.4	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





REPORT NUMBER: P233851

CATALOG NUMBER: VERD-G-C02-D-U-T3-8027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2
2.5°	2305.5	2304.1	2297.2	2272.4	2269.6	2266.8	2250.3	2251.7	2247.5	2251.7	2253.1
5°	2368.9	2363.4	2356.5	2330.3	2320.6	2308.2	2283.4	2282.0	2272.4	2275.1	2277.9
7.5°	2447.5	2442.0	2436.4	2406.1	2396.5	2374.4	2335.8	2316.5	2308.2	2311.0	2315.1
10°	2553.6	2544.0	2535.7	2491.6	2476.4	2439.2	2392.3	2359.2	2348.2	2352.3	2363.4
12.5°	2675.0	2662.6	2648.8	2603.3	2582.6	2524.7	2469.5	2426.8	2410.2	2419.9	2428.2
15°	2800.5	2793.6	2788.1	2734.3	2705.3	2641.9	2572.9	2519.2	2504.0	2512.3	2516.4
17.5°	2965.9	2961.8	2952.1	2897.0	2841.8	2768.7	2679.1	2622.6	2607.4	2611.6	2601.9
20°	3146.6	3135.5	3130.0	3068.0	3010.0	2909.4	2806.0	2726.0	2721.9	2723.2	2692.9
22.5°	3349.2	3336.8	3325.8	3269.3	3197.6	3080.4	2945.2	2855.6	2858.4	2861.1	2793.6
25°	3556.1	3546.4	3536.8	3483.0	3411.3	3283.1	3120.4	3019.7	3018.3	3019.7	2925.9
27.5°	3772.6	3761.5	3760.1	3716.0	3644.3	3513.3	3325.8	3223.8	3223.8	3218.3	3076.2
30°	3965.6	3976.6	3976.6	3951.8	3884.2	3753.3	3576.8	3474.7	3488.5	3477.5	3296.9
32.5°	4176.6	4173.8	4193.1	4173.8	4118.6	3997.3	3849.8	3785.0	3808.4	3844.3	3663.6
35°	4299.3	4318.6	4366.8	4394.4	4368.2	4268.9	4161.4	4211.0	4242.7	4404.1	4187.6
37.5°	4441.3	4457.8	4524.0	4591.6	4602.6	4548.9	4548.9	4711.6	4773.6	4984.6	4732.2
40°	4539.2	4555.7	4627.4	4706.0	4813.6	4850.8	4947.3	5199.7	5287.9	5429.9	5137.6
42.5°	4481.3	4489.6	4644.0	4835.7	4994.2	5173.5	5326.5	5646.4	5730.5	5829.8	5471.3
45°	4379.3	4394.4	4565.4	4874.3	5147.3	5503.0	5696.1	6067.0	6163.5	6153.8	5727.8
47.5°	4266.2	4289.6	4479.9	4824.6	5278.3	5788.4	6033.9	6420.0	6475.1	6406.2	5905.7
50°	4140.7	4180.7	4383.4	4775.0	5373.4	6038.0	6284.8	6684.7	6713.7	6573.0	6061.5
52.5°	3997.3	4023.5	4248.3	4679.8	5439.6	6203.5	6484.8	6881.9	6894.3	6779.8	6225.5
55°	3798.8	3822.2	4071.8	4553.0	5449.2	6301.4	6613.0	7092.8	7134.2	7022.5	6374.5
57.5°	3585.0	3614.0	3870.5	4369.6	5361.0	6341.4	6767.4	7364.5	7444.5	7284.5	6494.4
60°	3336.8	3374.1	3633.3	4146.2	5187.3	6403.4	7055.6	7760.2	7859.5	7581.0	6608.9
62.5°	3079.0	3099.7	3338.2	3837.4	4917.0	6435.1	7317.6	8212.5	8307.6	7860.9	6662.6
65°	2716.4	2749.4	2961.8	3466.4	4536.4	6298.6	7440.3	8528.2	8597.2	8088.4	6610.2
67.5°	2331.6	2331.6	2512.3	3022.5	4029.0	5937.4	7390.7	8679.9	8762.6	8248.3	6444.8
69°	2065.5	2086.2	2224.1	2688.8	3656.7	5616.1	7336.9	8819.2	8886.7	8197.3	6254.5
70°	1861.5	1879.4	2018.6	2446.1	3379.6	5362.4	7221.1	8757.1	8806.8	8040.1	6054.6
72.5°	1369.2	1384.4	1480.9	1704.3	2541.2	4326.9	6511.0	7917.4	7947.7	7230.7	5341.7
75°	933.5	941.8	1014.8	1151.3	1482.3	3025.2	5319.6	6687.5	6777.1	6271.0	4373.7
77.5°	322.7	347.5	391.6	529.5	634.3	1188.6	3605.7	5270.0	5403.7	4856.3	3059.7
80°	110.3	108.9	209.6	271.6	333.7	546.0	1140.3	2208.9	2334.4	2002.1	1101.7
82.5°	82.7	85.5	139.3	150.3	102.0	201.3	444.0	675.6	740.4	646.7	456.4
85°	52.4	51.0	62.0	64.8	46.9	85.5	107.6	108.9	113.1	97.9	99.3
87.5°	29.0	29.0	27.6	23.4	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°	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2
2.5°	2246.2	2265.5	2269.6	2275.1	2288.9	2306.8	2331.6	2331.6	2341.3	2370.3	2379.9
5°	2277.9	2301.3	2331.6	2363.4	2400.6	2440.6	2480.6	2494.4	2513.7	2552.3	2560.5
7.5°	2326.1	2352.3	2404.7	2447.5	2479.2	2519.2	2552.3	2557.8	2582.6	2618.5	2625.3
10°	2375.8	2399.2	2451.6	2473.7	2516.4	2560.5	2577.1	2585.4	2606.0	2633.6	2629.5
12.5°	2443.3	2450.2	2487.5	2502.6	2523.3	2550.9	2559.2	2559.2	2571.6	2615.7	2617.1
15°	2509.5	2509.5	2515.0	2506.8	2509.5	2523.3	2524.7	2506.8	2520.6	2542.6	2534.3
17.5°	2579.8	2560.5	2535.7	2499.9	2468.2	2466.8	2437.8	2395.1	2382.7	2414.4	2413.0
20°	2646.0	2612.9	2553.6	2472.3	2428.2	2368.9	2295.8	2271.0	2269.6	2275.1	2271.0
22.5°	2732.9	2665.3	2557.8	2446.1	2324.8	2231.0	2170.3	2086.2	2083.5	2071.0	2051.7
25°	2836.3	2739.8	2575.7	2417.1	2240.6	2119.3	1973.1	1883.5	1832.5	1843.5	1810.4
27.5°	2970.1	2852.9	2582.6	2353.7	2124.8	1919.4	1742.9	1627.1	1582.9	1563.6	1541.6
30°	3153.4	2972.8	2632.2	2299.9	1981.4	1709.8	1493.3	1325.1	1261.7	1278.2	1281.0
32.5°	3447.1	3200.3	2658.4	2193.8	1816.0	1480.9	1199.6	1017.6	980.4	1027.2	1039.7
35°	3958.7	3553.3	2720.5	2130.3	1627.1	1213.4	892.1	817.7	825.9	865.9	868.7
37.5°	4462.0	4000.1	2912.1	1992.5	1400.9	899.0	692.2	652.2	692.2	743.2	750.1
40°	4815.0	4348.9	3081.7	1855.9	1083.8	650.8	528.1	479.8	537.8	619.1	634.3
42.5°	5128.0	4626.1	3201.7	1667.0	741.8	464.7	379.2	391.6	477.1	536.4	550.2
45°	5352.7	4816.4	3284.4	1421.6	472.9	351.6	339.2	379.2	460.5	507.4	511.6
47.5°	5494.8	4928.0	3223.8	1119.6	355.7	332.3	333.7	384.7	466.1	518.5	517.1
50°	5623.0	4987.3	3026.6	888.0	337.8	318.5	340.6	399.9	484.0	532.2	529.5
52.5°	5759.5	5045.2	2786.7	696.3	324.0	311.6	348.9	409.5	484.0	514.3	510.2
55°	5876.7	5096.3	2606.0	559.8	314.4	310.2	357.1	424.7	481.2	493.6	485.4
57.5°	5937.4	5009.4	2410.2	470.2	304.7	310.2	362.6	421.9	497.8	537.8	529.5
60°	5904.3	4928.0	2251.7	437.1	290.9	308.9	365.4	452.3	610.8	648.1	645.3
62.5°	5843.6	4838.4	2029.7	393.0	275.8	311.6	364.0	479.8	703.2	690.8	656.3
65°	5719.5	4659.2	1726.3	342.0	260.6	317.1	364.0	540.5	613.6	599.8	584.6
67.5°	5454.8	4271.7	1381.6	293.7	244.1	300.6	358.5	514.3	528.1	492.3	474.3
69°	5158.3	3902.2	1093.4	267.5	234.4	292.3	357.1	496.4	519.8	481.2	460.5
70°	4926.7	3614.0	883.8	248.2	224.8	289.6	355.7	484.0	515.7	472.9	450.9
72.5°	4103.5	2920.4	463.3	199.9	191.7	263.4	343.3	472.9	517.1	453.6	421.9
75°	3223.8	2077.9	307.5	153.1	147.5	230.3	314.4	455.0	486.7	408.1	359.9
77.5°	1988.3	910.0	212.3	106.2	107.6	179.3	270.3	406.8	490.9	412.3	350.2
80°	577.7	351.6	135.1	71.7	66.2	106.2	212.3	350.2	466.1	423.3	381.9
82.5°	333.7	228.9	91.0	45.5	40.0	48.3	133.7	271.6	410.9	387.5	395.7
85°	75.8	63.4	33.1	22.1	22.1	27.6	45.5	157.2	284.0	332.3	375.0
87.5°	8.3	8.3	8.3	8.3	8.3	6.9	8.3	42.7	124.1	176.5	205.4
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)