

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: P233543

Luminaire Tested: **VERD-C02H-D-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233543
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-C02H-D-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1040mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14846 lumens
Efficiency: N/A
Efficacy: 123.7 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

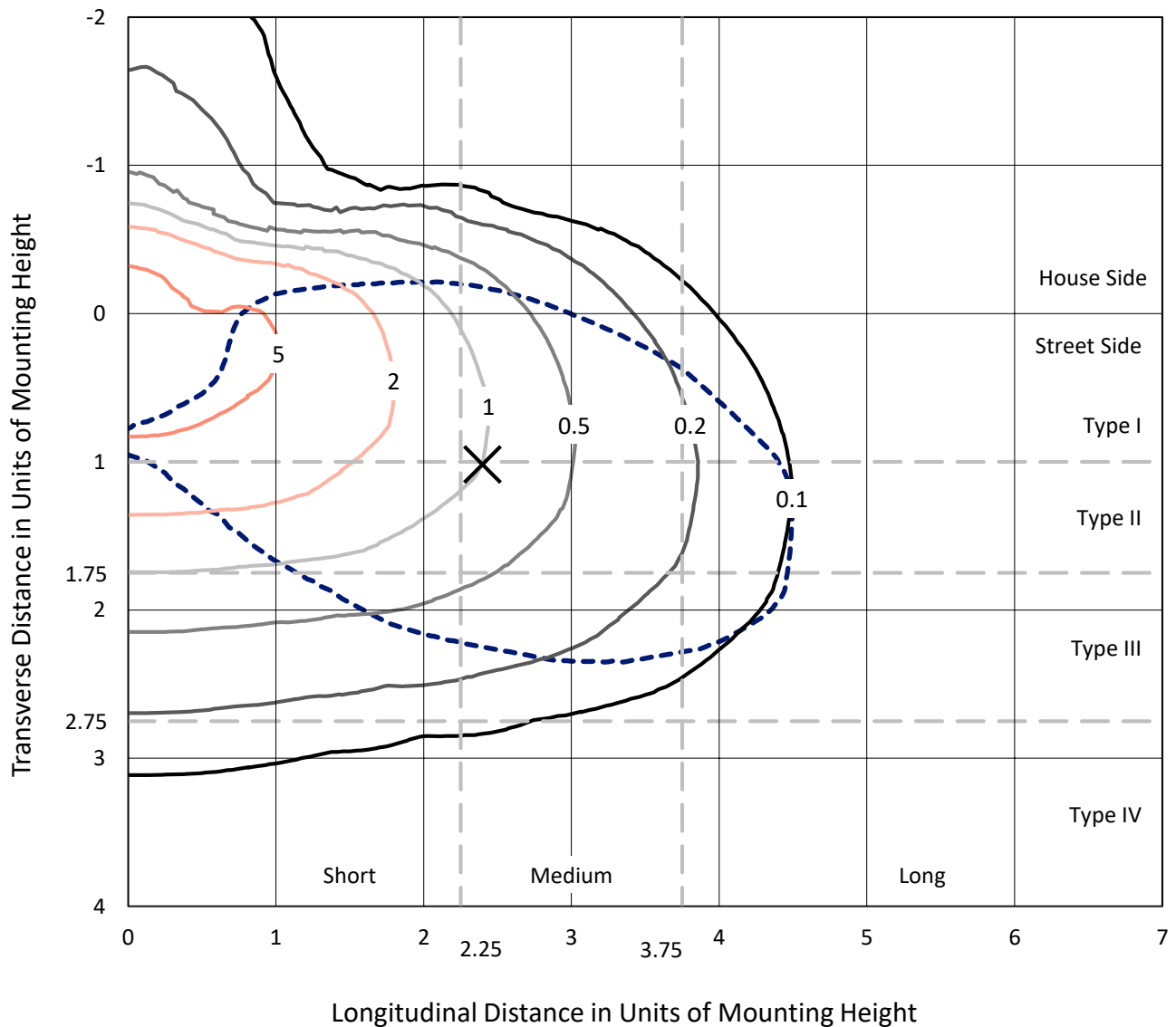
Input Watts (W): 120
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

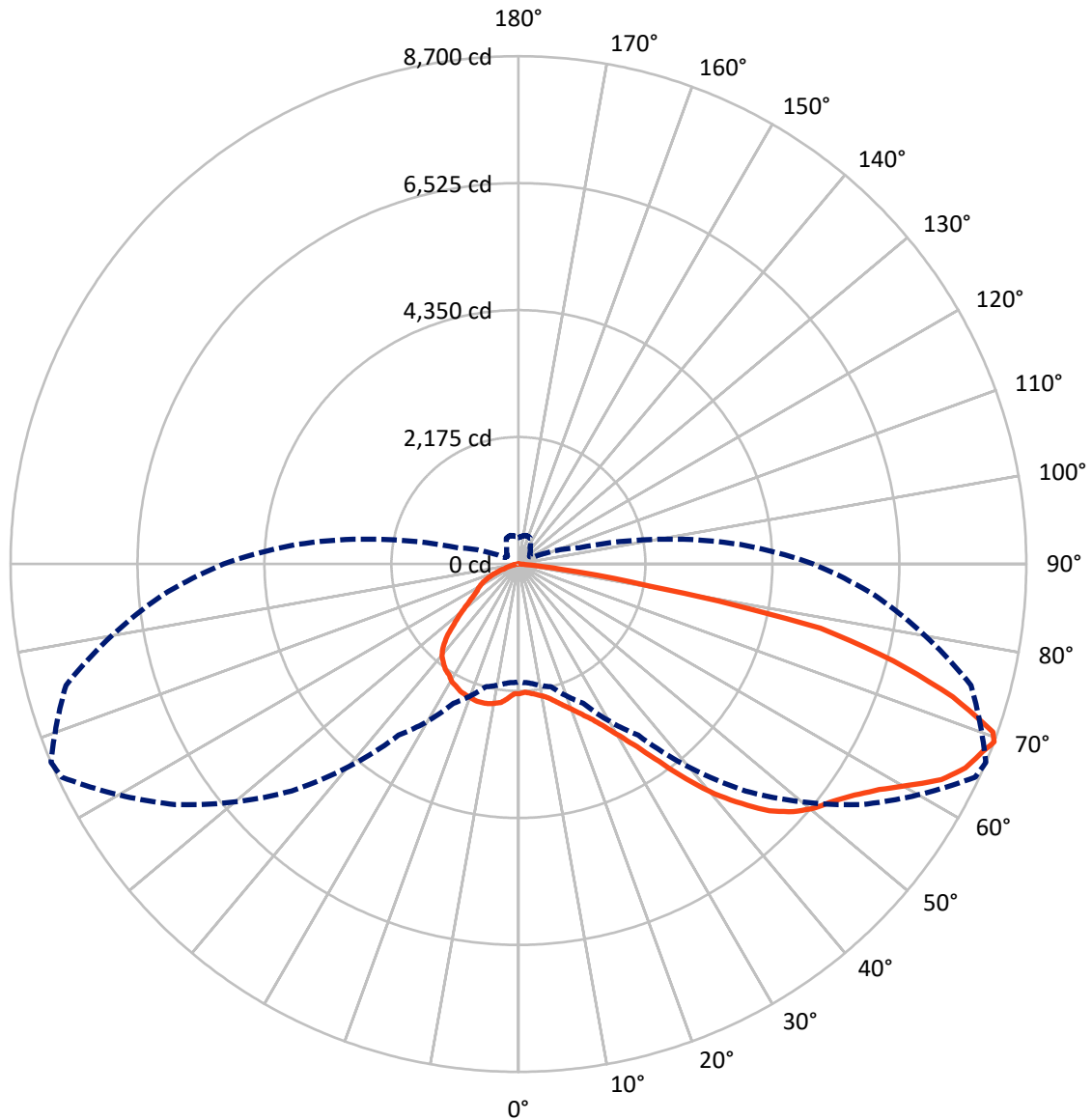
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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	3343.1	0.0	3343.1
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	11502.8	0.0	11502.8
	% Fixture	77.5	0.0	77.5
Total	Lumens	14846.0	0.0	14846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	1.5
10°-20°	716.8	4.8
20°-30°	1234.9	8.3
30°-40°	1836.7	12.4
40°-50°	2529.5	17.0
50°-60°	3023.9	20.4
60°-70°	3191.1	21.5
70°-80°	1912.3	12.9
80°-90°	175.9	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°	14846.0	100.0
0°-180°	14846.0	100.0



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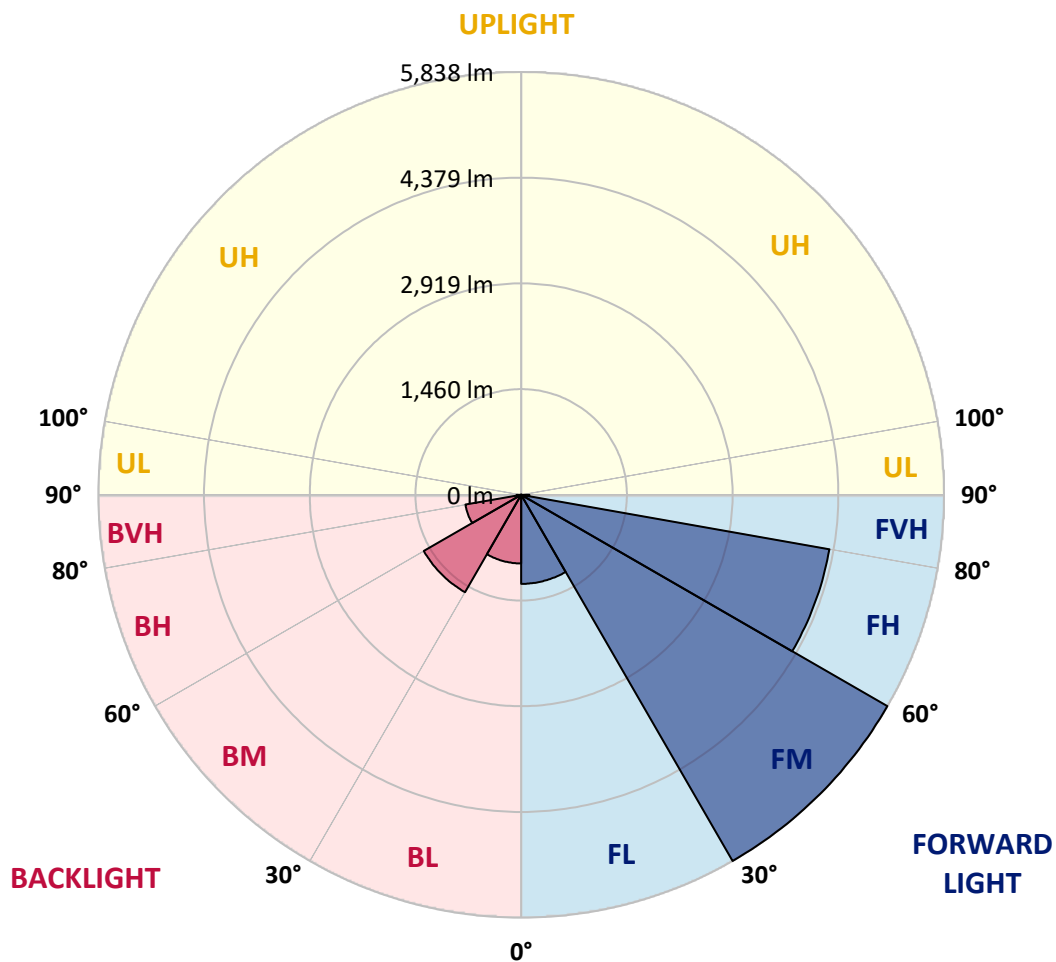
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1229.3	8.3			
FM	(30°-60°)	5838.1	39.3			
FH	(60°-80°)	4321.7	29.1			G2/5000
FVH	(80°-90°)	113.7	0.8			G2/225
BL	(0°-30°)	947.3	6.4	B2/1000		
BM	(30°-60°)	1552.0	10.5	B2/2500		
BH	(60°-80°)	781.7	5.3	B2/1000		G2/1000
BVH	(80°-90°)	62.1	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°	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7
2.5°	2257.1	2255.8	2249.0	2224.7	2222.0	2219.3	2203.1	2204.5	2200.4	2204.5	2205.8
5°	2319.2	2313.8	2307.1	2281.4	2272.0	2259.8	2235.5	2234.2	2224.7	2227.4	2230.1
7.5°	2396.1	2390.7	2385.3	2355.6	2346.2	2324.6	2286.8	2267.9	2259.8	2262.5	2266.6
10°	2500.1	2490.6	2482.5	2439.3	2424.5	2388.0	2342.2	2309.8	2299.0	2303.0	2313.8
12.5°	2618.9	2606.7	2593.2	2548.7	2528.4	2471.7	2417.7	2375.9	2359.7	2369.1	2377.2
15°	2741.7	2735.0	2729.6	2676.9	2648.6	2586.5	2519.0	2466.3	2451.5	2459.6	2463.6
17.5°	2903.7	2899.7	2890.2	2836.2	2782.2	2710.7	2622.9	2567.6	2552.7	2556.8	2547.3
20°	3080.6	3069.8	3064.4	3003.6	2946.9	2848.4	2747.1	2668.8	2664.8	2666.1	2636.4
22.5°	3279.0	3266.9	3256.1	3200.7	3130.5	3015.8	2883.5	2795.7	2798.4	2801.1	2735.0
25°	3481.5	3472.1	3462.6	3410.0	3339.8	3214.2	3054.9	2956.4	2955.0	2956.4	2864.6
27.5°	3693.4	3682.6	3681.3	3638.1	3567.9	3439.7	3256.1	3156.2	3156.2	3150.8	3011.7
30°	3882.4	3893.2	3893.2	3868.9	3802.8	3674.5	3501.8	3401.9	3415.4	3404.6	3227.7
32.5°	4089.0	4086.3	4105.2	4086.3	4032.3	3913.5	3769.0	3705.6	3728.5	3763.6	3586.8
35°	4209.1	4228.0	4275.3	4302.3	4276.6	4179.4	4074.1	4122.7	4153.8	4311.7	4099.8
37.5°	4348.2	4364.4	4429.2	4495.3	4506.1	4453.5	4453.5	4612.8	4673.5	4880.0	4633.0
40°	4444.0	4460.2	4530.4	4607.4	4712.6	4749.1	4843.6	5090.6	5177.0	5316.1	5029.9
42.5°	4387.3	4395.4	4546.6	4734.2	4889.5	5065.0	5214.8	5528.0	5610.4	5707.6	5356.6
45°	4287.4	4302.3	4469.7	4772.0	5039.3	5387.6	5576.6	5939.7	6034.2	6024.8	5607.7
47.5°	4176.7	4199.7	4386.0	4723.4	5167.6	5667.1	5907.3	6285.3	6339.3	6271.8	5781.8
50°	4053.9	4093.0	4291.5	4674.9	5260.7	5911.4	6153.0	6544.5	6572.9	6435.2	5934.3
52.5°	3913.5	3939.1	4159.2	4581.7	5325.5	6073.4	6348.8	6737.6	6749.7	6637.7	6095.0
55°	3719.1	3742.0	3986.4	4457.5	5335.0	6169.2	6474.3	6944.1	6984.6	6875.3	6240.8
57.5°	3509.9	3538.2	3789.3	4278.0	5248.6	6208.4	6625.5	7210.0	7288.3	7131.7	6358.2
60°	3266.9	3303.3	3557.1	4059.3	5078.5	6269.1	6907.7	7597.5	7694.7	7422.0	6470.3
62.5°	3014.4	3034.7	3268.2	3756.9	4813.9	6300.2	7164.1	8040.3	8133.4	7696.0	6522.9
65°	2659.4	2691.8	2899.7	3393.8	4441.3	6166.5	7284.3	8349.4	8416.9	7918.8	6471.6
67.5°	2282.8	2282.8	2459.6	2959.1	3944.5	5812.9	7235.7	8497.9	8578.9	8075.4	6309.6
69°	2022.2	2042.5	2177.5	2632.4	3580.0	5498.3	7183.0	8634.2	8700.4	8025.4	6123.3
70°	1822.4	1840.0	1976.3	2394.8	3308.7	5249.9	7069.6	8573.5	8622.1	7871.5	5927.6
72.5°	1340.5	1355.3	1449.8	1668.5	2487.9	4236.1	6374.4	7751.4	7781.1	7079.1	5229.7
75°	913.9	922.0	993.6	1127.2	1451.2	2961.8	5208.1	6547.2	6635.0	6139.5	4282.0
77.5°	315.9	340.2	383.4	518.4	621.0	1163.7	3530.1	5159.5	5290.4	4754.5	2995.5
80°	108.0	106.6	205.2	265.9	326.7	534.6	1116.4	2162.6	2285.5	1960.1	1078.6
82.5°	81.0	83.7	136.3	147.1	99.9	197.1	434.7	661.5	724.9	633.1	446.8
85°	51.3	49.9	60.7	63.4	45.9	83.7	105.3	106.6	110.7	95.8	97.2
87.5°	28.3	28.3	27.0	22.9	12.1	10.8	9.4	9.4	8.1	8.1	8.1
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°	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7
2.5°	2199.1	2218.0	2222.0	2227.4	2240.9	2258.5	2282.8	2282.8	2292.2	2320.6	2330.0
5°	2230.1	2253.1	2282.8	2313.8	2350.3	2389.4	2428.5	2442.0	2460.9	2498.7	2506.8
7.5°	2277.4	2303.0	2354.3	2396.1	2427.2	2466.3	2498.7	2504.1	2528.4	2563.5	2570.3
10°	2326.0	2348.9	2400.2	2421.8	2463.6	2506.8	2523.0	2531.1	2551.4	2578.4	2574.3
12.5°	2392.1	2398.8	2435.3	2450.1	2470.4	2497.4	2505.5	2505.5	2517.6	2560.8	2562.2
15°	2456.9	2456.9	2462.3	2454.2	2456.9	2470.4	2471.7	2454.2	2467.7	2489.3	2481.2
17.5°	2525.7	2506.8	2482.5	2447.4	2416.4	2415.0	2386.7	2344.9	2332.7	2363.7	2362.4
20°	2590.5	2558.1	2500.1	2420.4	2377.2	2319.2	2247.7	2223.4	2222.0	2227.4	2223.4
22.5°	2675.6	2609.4	2504.1	2394.8	2276.0	2184.2	2124.8	2042.5	2039.8	2027.6	2008.7
25°	2776.8	2682.3	2521.7	2366.4	2193.7	2074.9	1931.8	1844.0	1794.1	1804.9	1772.5
27.5°	2907.8	2793.0	2528.4	2304.4	2080.3	1879.1	1706.3	1592.9	1549.7	1530.8	1509.2
30°	3087.3	2910.5	2577.0	2251.7	1939.9	1673.9	1462.0	1297.3	1235.2	1251.4	1254.1
32.5°	3374.9	3133.2	2602.7	2147.8	1777.9	1449.8	1174.5	996.3	959.8	1005.7	1017.9
35°	3875.7	3478.8	2663.4	2085.7	1592.9	1187.9	873.4	800.5	808.6	847.8	850.5
37.5°	4368.4	3916.2	2851.1	1950.7	1371.5	880.2	677.7	638.5	677.7	727.6	734.4
40°	4714.0	4257.7	3017.1	1817.0	1061.1	637.2	517.0	469.8	526.5	606.1	621.0
42.5°	5020.4	4529.1	3134.6	1632.1	726.3	454.9	371.2	383.4	467.1	525.1	538.6
45°	5240.5	4715.3	3215.6	1391.8	463.0	344.2	332.1	371.2	450.9	496.8	500.8
47.5°	5379.5	4824.7	3156.2	1096.2	348.3	325.3	326.7	376.6	456.3	507.6	506.2
50°	5505.1	4882.7	2963.1	869.4	330.7	311.8	333.4	391.5	473.8	521.1	518.4
52.5°	5638.7	4939.4	2728.2	681.7	317.2	305.1	341.5	400.9	473.8	503.5	499.5
55°	5753.5	4989.4	2551.4	548.1	307.8	303.7	349.6	415.8	471.1	483.3	475.2
57.5°	5812.9	4904.3	2359.7	460.3	298.3	303.7	355.0	413.1	487.3	526.5	518.4
60°	5780.5	4824.7	2204.5	427.9	284.8	302.4	357.7	442.8	598.0	634.5	631.8
62.5°	5721.1	4736.9	1987.1	384.7	270.0	305.1	356.4	469.8	688.5	676.3	642.6
65°	5599.6	4561.5	1690.1	334.8	255.1	310.5	356.4	529.2	600.7	587.2	572.4
67.5°	5340.4	4182.1	1352.6	287.5	238.9	294.3	351.0	503.5	517.0	481.9	464.4
69°	5050.1	3820.3	1070.5	261.9	229.5	286.2	349.6	486.0	508.9	471.1	450.9
70°	4823.3	3538.2	865.3	243.0	220.0	283.5	348.3	473.8	504.9	463.0	441.4
72.5°	4017.4	2859.2	453.6	195.7	187.6	257.8	336.1	463.0	506.2	444.1	413.1
75°	3156.2	2034.4	301.0	149.8	144.4	225.4	307.8	445.5	476.5	399.6	352.3
77.5°	1946.6	891.0	207.9	103.9	105.3	175.5	264.6	398.2	480.6	403.6	342.9
80°	565.6	344.2	132.3	70.2	64.8	103.9	207.9	342.9	456.3	414.4	373.9
82.5°	326.7	224.1	89.1	44.5	39.1	47.2	130.9	265.9	402.3	379.3	387.4
85°	74.2	62.1	32.4	21.6	21.6	27.0	44.5	153.9	278.1	325.3	367.2
87.5°	8.1	8.1	8.1	8.1	8.1	6.7	8.1	41.8	121.5	172.8	201.1
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)