

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: P233938

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233938
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-C029-D-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1040mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14402 lumens
Efficiency: N/A
Efficacy: 119.0 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

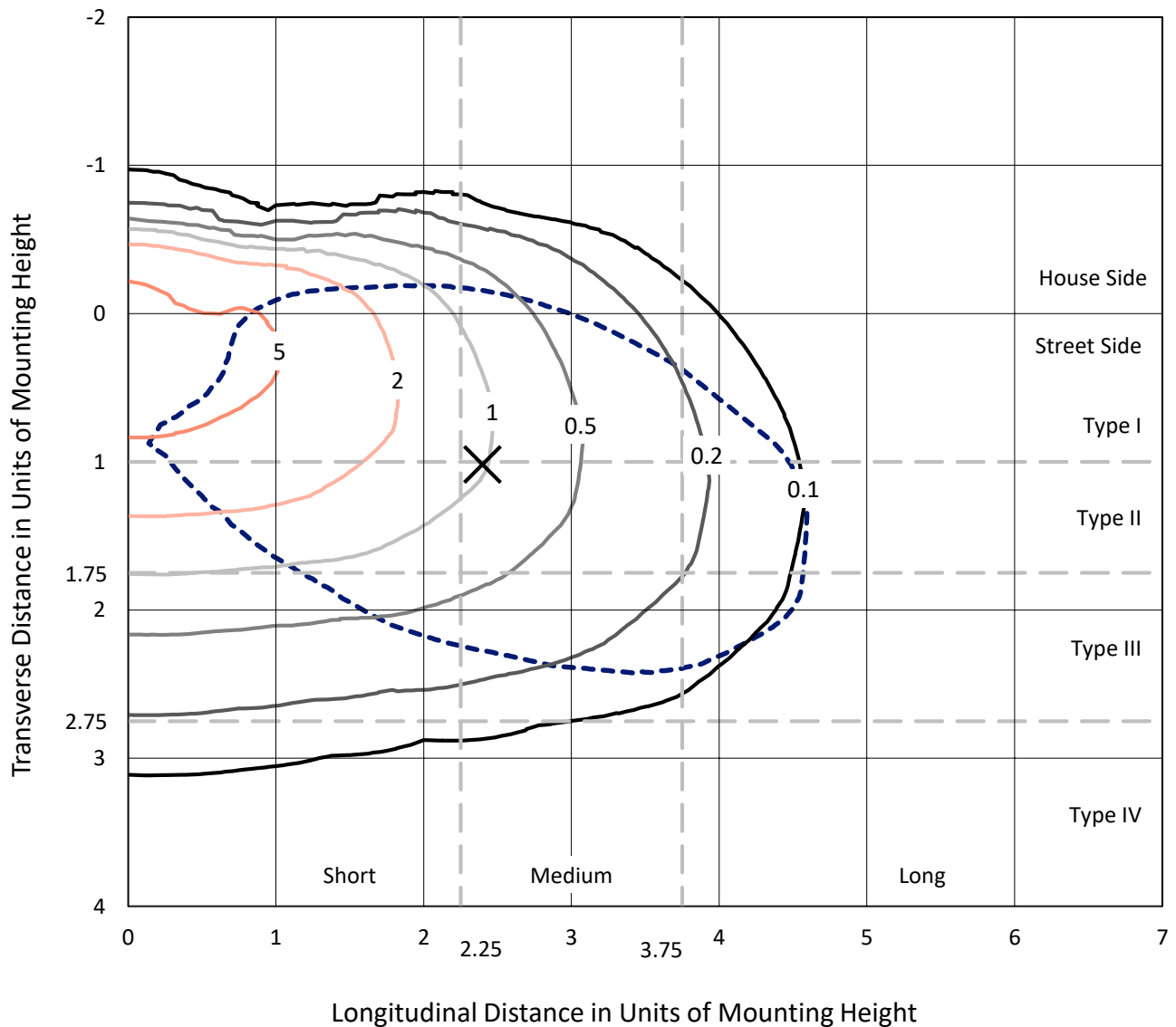


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

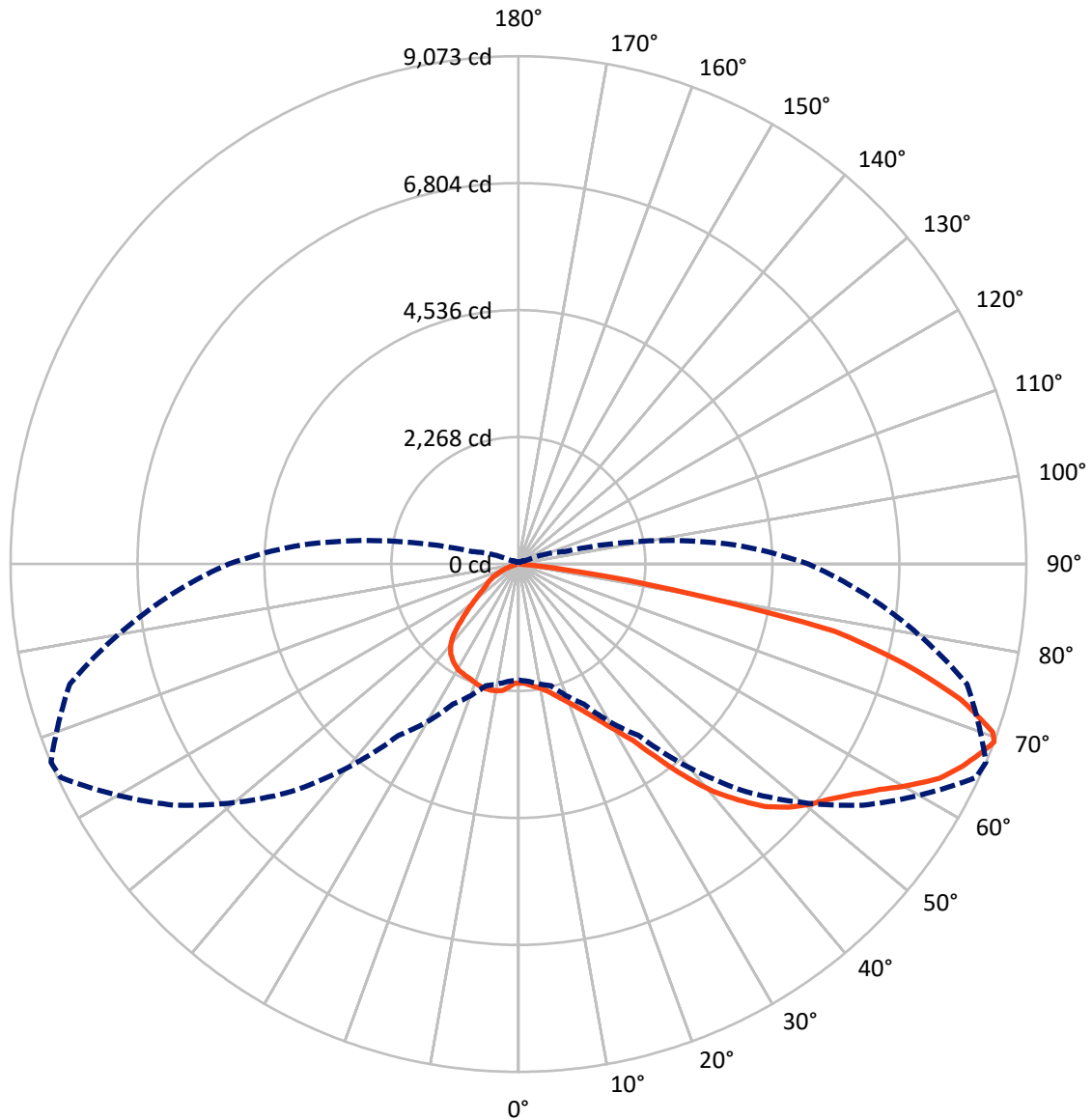


Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - Semi-Cutoff

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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	2596.3	0.0	2596.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	11805.7	0.0	11805.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	14402.0	0.0	14402.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	1.5
10°-20°	676.1	4.7
20°-30°	1154.0	8.0
30°-40°	1744.9	12.1
40°-50°	2465.0	17.1
50°-60°	2979.0	20.7
60°-70°	3143.4	21.8
70°-80°	1892.3	13.1
80°-90°	132.3	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°	14402.0	100.0
0°-180°	14402.0	100.0



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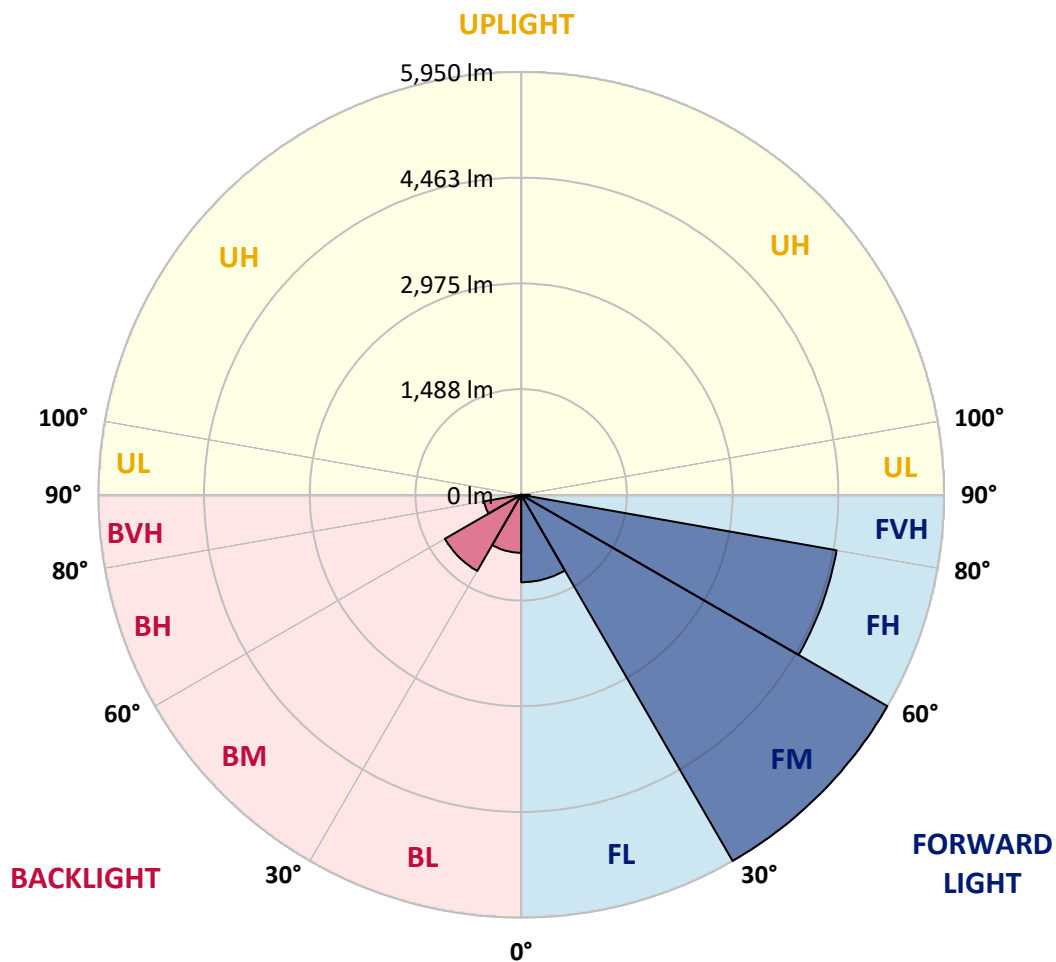
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1229.8	8.5			
FM	(30°-60°)	5950.1	41.3			
FH	(60°-80°)	4506.4	31.3			G2/5000
FVH	(80°-90°)	119.4	0.8			G2/225
BL	(0°-30°)	815.4	5.7	B2/1000		
BM	(30°-60°)	1238.8	8.6	B2/2500		
BH	(60°-80°)	529.3	3.7	B2/1000		G2/1000
BVH	(80°-90°)	12.8	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°	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8
2.5°	2184.9	2181.5	2181.5	2162.0	2143.6	2139.0	2137.9	2132.1	2133.3	2125.2	2117.2
5°	2248.0	2248.0	2245.7	2220.5	2201.0	2188.4	2180.3	2170.0	2171.2	2165.4	2158.5
7.5°	2343.3	2344.4	2339.8	2306.6	2287.1	2256.1	2237.7	2218.2	2217.1	2210.2	2212.5
10°	2460.3	2463.8	2456.9	2414.4	2381.2	2338.7	2299.7	2265.2	2263.0	2254.9	2261.8
12.5°	2592.3	2596.9	2579.7	2536.1	2498.2	2431.6	2384.6	2338.7	2331.8	2330.7	2335.2
15°	2743.8	2746.1	2740.3	2676.1	2630.2	2569.3	2492.5	2433.9	2427.1	2428.2	2422.5
17.5°	2912.5	2918.2	2905.6	2848.2	2787.4	2703.6	2611.8	2539.5	2536.1	2532.6	2507.4
20°	3091.5	3097.2	3089.2	3035.2	2963.0	2857.4	2744.9	2662.3	2661.2	2653.1	2594.6
22.5°	3293.4	3301.5	3296.9	3231.5	3154.6	3039.8	2899.8	2813.8	2811.5	2786.2	2697.9
25°	3512.6	3510.3	3514.9	3444.9	3372.6	3252.1	3078.9	2989.3	2989.3	2958.4	2827.5
27.5°	3724.9	3723.8	3731.8	3682.5	3606.7	3493.1	3284.3	3193.6	3201.6	3156.9	2983.6
30°	3931.5	3931.5	3951.0	3918.9	3862.6	3743.3	3539.0	3443.8	3454.1	3407.1	3181.0
32.5°	4124.3	4133.4	4166.7	4147.2	4104.8	3996.9	3822.5	3735.3	3759.3	3778.9	3548.2
35°	4266.6	4275.7	4352.6	4359.5	4349.2	4276.9	4147.2	4203.4	4232.1	4385.9	4128.9
37.5°	4391.6	4403.1	4494.9	4552.3	4585.6	4540.8	4548.9	4737.1	4791.0	4972.3	4624.6
40°	4483.4	4508.7	4599.3	4678.5	4795.6	4848.4	4979.2	5246.6	5333.8	5406.1	4965.4
42.5°	4420.3	4437.5	4597.1	4809.4	4980.3	5166.2	5378.5	5696.4	5761.8	5738.9	5266.1
45°	4327.4	4348.0	4515.6	4843.8	5127.2	5497.9	5757.2	6101.5	6176.1	6048.7	5525.4
47.5°	4223.0	4251.6	4433.0	4797.9	5250.0	5803.1	6100.3	6449.2	6492.8	6325.3	5743.4
50°	4117.4	4149.5	4354.9	4760.0	5345.3	6057.9	6350.5	6732.6	6745.3	6554.8	5939.7
52.5°	3975.1	4008.4	4233.3	4680.8	5411.8	6225.4	6569.7	6965.6	6973.6	6802.6	6125.6
55°	3794.9	3837.4	4074.9	4563.8	5427.9	6323.0	6708.5	7207.7	7261.6	7071.2	6278.2
57.5°	3582.6	3621.6	3883.3	4395.1	5347.5	6356.2	6902.5	7527.9	7602.5	7343.1	6404.4
60°	3338.2	3383.0	3645.7	4177.1	5185.7	6449.2	7223.8	7980.0	8024.8	7627.7	6515.7
62.5°	3088.0	3120.2	3358.9	3870.7	4933.3	6505.4	7508.4	8404.6	8434.4	7902.0	6582.3
65°	2732.3	2772.5	3005.4	3519.5	4569.5	6397.5	7617.4	8694.9	8713.3	8131.5	6550.2
67.5°	2345.6	2377.7	2547.5	3096.1	4092.1	6055.6	7572.6	8888.9	8947.4	8310.5	6404.4
69°	2071.3	2103.4	2250.3	2757.5	3737.5	5752.6	7509.5	9020.8	9072.5	8297.9	6218.5
70°	1857.9	1890.0	2028.9	2505.1	3459.8	5496.7	7409.7	8954.3	8987.6	8156.7	6037.2
72.5°	1328.9	1361.0	1474.6	1761.5	2621.0	4517.9	6791.2	8215.3	8260.0	7478.5	5395.7
75°	695.4	772.3	976.6	1138.4	1552.6	3181.0	5645.9	7065.4	7130.8	6562.8	4437.5
77.5°	89.5	94.1	275.4	462.5	641.5	1341.5	4010.7	5673.4	5776.7	5252.3	3068.5
80°	72.3	73.4	95.2	230.7	319.0	543.9	1423.0	2655.4	2780.5	2334.1	1128.0
82.5°	50.5	52.8	74.6	121.6	104.4	198.5	494.6	750.5	773.4	669.0	449.8
85°	28.7	28.7	35.6	47.0	33.3	74.6	102.1	109.0	97.5	96.4	72.3
87.5°	8.0	9.2	10.3	8.0	3.4	3.4	4.6	4.6	4.6	3.4	3.4
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°	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8
2.5°	2129.8	2127.5	2128.7	2133.3	2140.2	2165.4	2182.6	2184.9	2193.0	2222.8	2219.3
5°	2166.6	2180.3	2188.4	2212.5	2228.5	2263.0	2283.6	2285.9	2297.4	2328.4	2329.5
7.5°	2218.2	2241.2	2252.6	2280.2	2285.9	2302.0	2307.7	2302.0	2303.1	2330.7	2333.0
10°	2263.0	2291.6	2291.6	2298.5	2288.2	2289.3	2271.0	2253.8	2244.6	2268.7	2274.4
12.5°	2331.8	2339.8	2321.5	2300.8	2269.8	2242.3	2211.3	2183.8	2162.0	2175.7	2167.7
15°	2403.0	2390.3	2345.6	2291.6	2236.6	2189.5	2125.2	2085.1	2047.2	2055.2	2048.4
17.5°	2474.1	2432.8	2362.8	2273.3	2193.0	2103.4	2013.9	1950.8	1882.0	1876.2	1865.9
20°	2543.0	2483.3	2367.4	2235.4	2123.0	1996.7	1857.9	1750.0	1647.9	1621.5	1604.3
22.5°	2625.6	2539.5	2373.1	2198.7	2047.2	1875.1	1665.1	1497.5	1387.4	1350.7	1333.4
25°	2731.2	2617.5	2389.2	2171.2	1970.3	1724.8	1436.7	1245.1	1125.7	1062.6	1056.9
27.5°	2856.2	2711.6	2416.7	2135.6	1861.3	1523.9	1200.3	1000.7	873.3	809.0	788.4
30°	3020.3	2828.7	2442.0	2108.0	1707.5	1304.8	952.5	729.8	578.4	537.0	515.2
32.5°	3331.3	3019.2	2474.1	2043.8	1526.2	1064.9	674.8	449.8	346.6	319.0	319.0
35°	3837.4	3438.0	2554.4	1955.4	1308.2	775.7	405.1	252.5	206.6	190.5	182.5
37.5°	4294.1	3860.3	2755.2	1818.9	1043.1	459.0	231.8	156.1	141.1	143.4	143.4
40°	4616.6	4149.5	2976.7	1634.1	708.0	245.6	146.9	125.1	127.4	128.5	128.5
42.5°	4893.1	4396.2	3098.4	1414.9	385.6	159.5	126.2	113.6	117.0	115.9	114.8
45°	5124.9	4597.1	3138.5	1113.1	187.0	141.1	114.8	104.4	104.4	103.3	103.3
47.5°	5323.4	4774.9	3063.9	827.4	151.5	129.7	109.0	96.4	95.2	101.0	101.0
50°	5504.8	4912.6	2878.0	626.6	146.9	119.3	103.3	89.5	90.7	98.7	98.7
52.5°	5656.2	4994.1	2602.6	469.3	136.6	110.2	95.2	83.8	83.8	91.8	91.8
55°	5768.7	4994.1	2392.6	351.1	130.8	101.0	88.4	80.3	75.7	78.0	79.2
57.5°	5824.9	4900.0	2223.9	284.6	123.9	91.8	81.5	70.0	62.0	64.3	63.1
60°	5810.0	4846.1	2030.0	253.6	115.9	84.9	72.3	59.7	51.6	49.3	49.3
62.5°	5782.5	4785.3	1787.9	220.3	107.9	79.2	59.7	48.2	43.6	41.3	42.5
65°	5678.0	4587.9	1481.5	183.6	99.8	76.9	50.5	42.5	37.9	35.6	35.6
67.5°	5425.6	4232.1	1120.0	154.9	93.0	62.0	43.6	36.7	32.1	29.8	29.8
69°	5175.4	3892.5	859.5	141.1	88.4	56.2	40.2	33.3	29.8	26.4	26.4
70°	4959.7	3629.7	673.6	132.0	84.9	53.9	39.0	32.1	28.7	25.2	25.2
72.5°	4223.0	2879.2	342.0	114.8	71.1	47.0	34.4	28.7	24.1	20.7	20.7
75°	3276.2	1984.1	226.1	90.7	55.1	42.5	31.0	25.2	20.7	17.2	16.1
77.5°	1971.5	775.7	161.8	58.5	35.6	33.3	25.2	20.7	17.2	13.8	13.8
80°	543.9	332.8	109.0	39.0	20.7	21.8	18.4	14.9	12.6	10.3	10.3
82.5°	327.0	215.7	72.3	25.2	13.8	13.8	10.3	10.3	8.0	8.0	8.0
85°	56.2	43.6	17.2	10.3	8.0	8.0	5.7	3.4	3.4	3.4	3.4
87.5°	3.4	3.4	3.4	4.6	4.6	3.4	2.3	1.1	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)