

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: P233850

Luminaire Tested: **VERD-G-C029-D-U-T3-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233850
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-T3-8027
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13745 lumens
Efficiency: N/A
Efficacy: 113.6 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

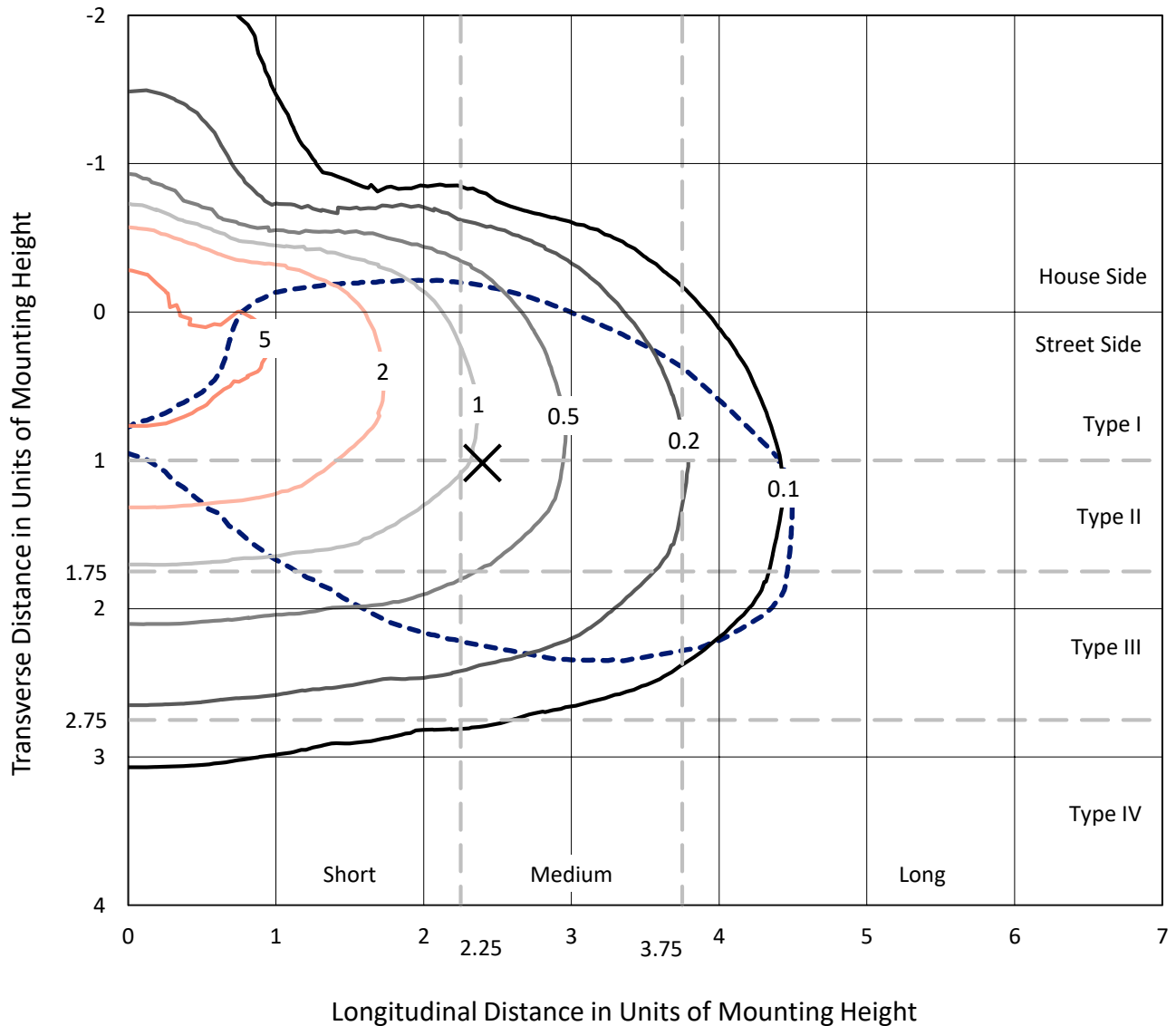
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

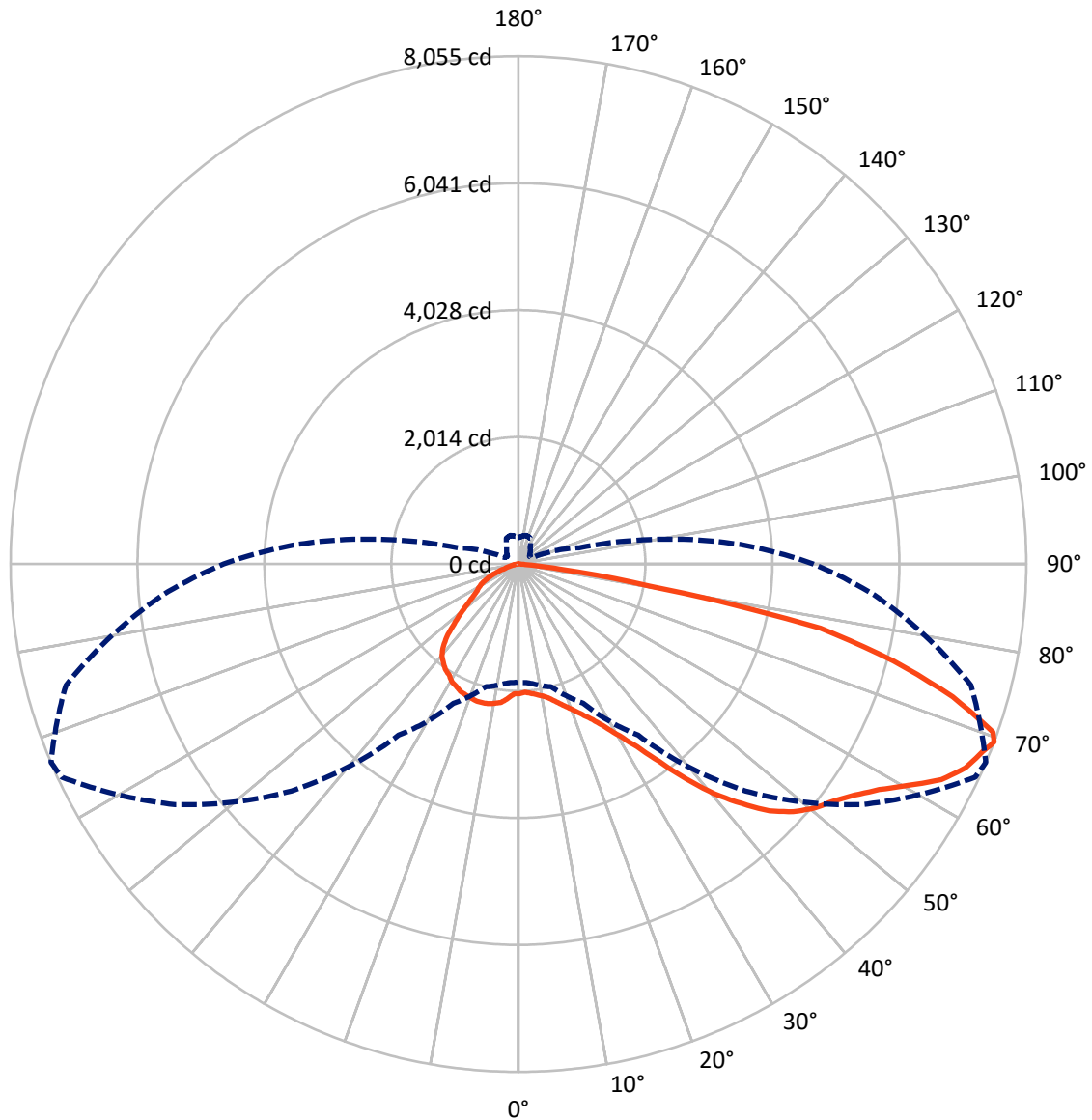


Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - Semi-Cutoff

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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	3095.2	0.0	3095.2
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	10649.8	0.0	10649.8
	% Fixture	77.5	0.0	77.5
Total	Lumens	13745.0	0.0	13745.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	1.5
10°-20°	663.7	4.8
20°-30°	1143.3	8.3
30°-40°	1700.5	12.4
40°-50°	2341.9	17.0
50°-60°	2799.6	20.4
60°-70°	2954.4	21.5
70°-80°	1770.5	12.9
80°-90°	162.8	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°	13745.0	100.0
0°-180°	13745.0	100.0



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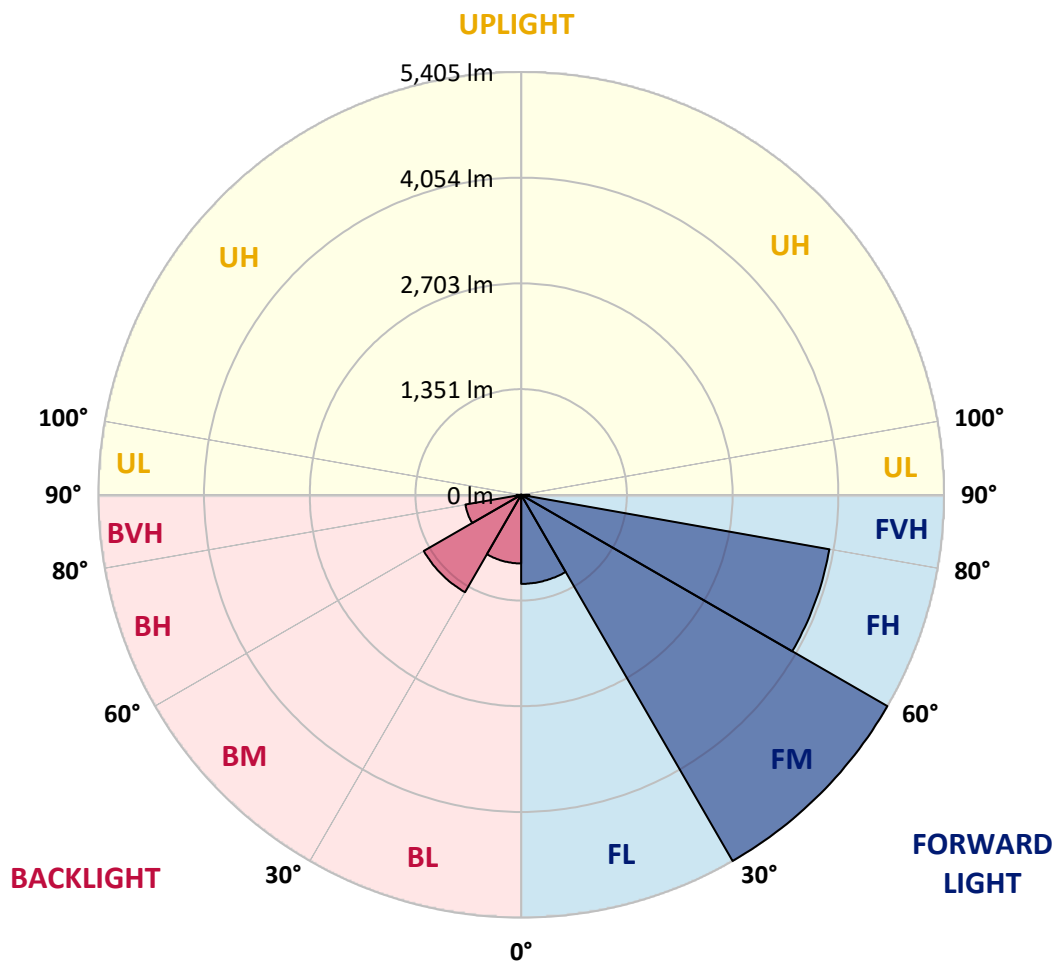
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.1	8.3			
FM (30°-60°)	5405.1	39.3			
FH (60°-80°)	4001.2	29.1			G2/5000
FVH (80°-90°)	105.3	0.8			G2/225
BL (0°-30°)	877.0	6.4	B2/1000		
BM (30°-60°)	1436.9	10.5	B2/2500		
BH (60°-80°)	723.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	57.5	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°	2056.0	2056.0	2056.0	2056.0	2056.0	2056.0	2056.0	2056.0	2056.0	2056.0	2056.0
2.5°	2089.7	2088.5	2082.2	2059.7	2057.2	2054.7	2039.7	2041.0	2037.2	2041.0	2042.2
5°	2147.2	2142.2	2136.0	2112.2	2103.5	2092.2	2069.7	2068.5	2059.7	2062.2	2064.7
7.5°	2218.4	2213.4	2208.4	2181.0	2172.2	2152.2	2117.2	2099.7	2092.2	2094.7	2098.5
10°	2314.7	2305.9	2298.4	2258.4	2244.7	2210.9	2168.5	2138.5	2128.5	2132.2	2142.2
12.5°	2424.7	2413.4	2400.9	2359.7	2340.9	2288.4	2238.4	2199.7	2184.7	2193.4	2200.9
15°	2538.4	2532.2	2527.2	2478.4	2452.2	2394.7	2332.2	2283.4	2269.7	2277.2	2280.9
17.5°	2688.4	2684.6	2675.9	2625.9	2575.9	2509.7	2428.4	2377.2	2363.4	2367.2	2358.4
20°	2852.1	2842.1	2837.1	2780.9	2728.4	2637.1	2543.4	2470.9	2467.2	2468.4	2440.9
22.5°	3035.8	3024.6	3014.6	2963.3	2898.4	2792.1	2669.6	2588.4	2590.9	2593.4	2532.2
25°	3223.3	3214.6	3205.8	3157.1	3092.1	2975.8	2828.4	2737.1	2735.9	2737.1	2652.1
27.5°	3419.5	3409.5	3408.3	3368.3	3303.3	3184.6	3014.6	2922.1	2922.1	2917.1	2788.4
30°	3594.5	3604.5	3604.5	3582.0	3520.8	3402.0	3242.1	3149.6	3162.1	3152.1	2988.3
32.5°	3785.7	3783.2	3800.7	3783.2	3733.2	3623.3	3489.5	3430.8	3452.0	3484.5	3320.8
35°	3897.0	3914.5	3958.2	3983.2	3959.5	3869.5	3772.0	3817.0	3845.7	3992.0	3795.7
37.5°	4025.7	4040.7	4100.7	4161.9	4171.9	4123.2	4123.2	4270.7	4326.9	4518.1	4289.4
40°	4114.4	4129.4	4194.4	4265.7	4363.2	4396.9	4484.4	4713.1	4793.1	4921.8	4656.9
42.5°	4061.9	4069.4	4209.4	4383.2	4526.9	4689.4	4828.1	5118.0	5194.3	5284.3	4959.3
45°	3969.5	3983.2	4138.2	4418.1	4665.6	4988.1	5163.0	5499.2	5586.7	5578.0	5191.8
47.5°	3867.0	3888.2	4060.7	4373.2	4784.3	5246.8	5469.3	5819.2	5869.2	5806.7	5353.0
50°	3753.2	3789.5	3973.2	4328.2	4870.6	5473.0	5696.7	6059.2	6085.4	5957.9	5494.2
52.5°	3623.3	3647.0	3850.7	4241.9	4930.6	5623.0	5877.9	6237.9	6249.1	6145.4	5643.0
55°	3443.3	3464.5	3690.7	4126.9	4939.3	5711.7	5994.2	6429.1	6466.6	6365.4	5778.0
57.5°	3249.6	3275.8	3508.3	3960.7	4859.3	5748.0	6134.2	6675.3	6747.8	6602.8	5886.7
60°	3024.6	3058.3	3293.3	3758.2	4701.9	5804.2	6395.4	7034.0	7124.0	6871.6	5990.4
62.5°	2790.9	2809.6	3025.8	3478.3	4456.9	5833.0	6632.8	7444.0	7530.2	7125.3	6039.2
65°	2462.2	2492.2	2684.6	3142.1	4111.9	5709.2	6744.1	7730.2	7792.7	7331.5	5991.7
67.5°	2113.5	2113.5	2277.2	2739.6	3652.0	5381.8	6699.1	7867.7	7942.7	7476.5	5841.7
69°	1872.2	1891.0	2016.0	2437.2	3314.5	5090.6	6650.3	7993.9	8055.1	7430.2	5669.2
70°	1687.3	1703.5	1829.7	2217.2	3063.3	4860.6	6545.4	7937.7	7982.7	7287.8	5488.0
72.5°	1241.1	1254.8	1342.3	1544.8	2303.4	3922.0	5901.7	7176.5	7204.0	6554.1	4841.8
75°	846.1	853.6	919.9	1043.6	1343.6	2742.1	4821.8	6061.7	6142.9	5684.2	3964.5
77.5°	292.5	315.0	355.0	479.9	574.9	1077.4	3268.3	4776.8	4898.1	4401.9	2773.4
80°	100.0	98.7	190.0	246.2	302.5	494.9	1033.6	2002.2	2116.0	1814.8	998.6
82.5°	75.0	77.5	126.2	136.2	92.5	182.5	402.4	612.4	671.2	586.2	413.7
85°	47.5	46.2	56.2	58.7	42.5	77.5	97.5	98.7	102.5	88.7	90.0
87.5°	26.2	26.2	25.0	21.2	11.2	10.0	8.7	8.7	7.5	7.5	7.5
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°	2056.0	2056.0	2056.0	2056.0	2056.0	2056.0	2056.0	2056.0	2056.0	2056.0	2056.0
2.5°	2036.0	2053.5	2057.2	2062.2	2074.7	2091.0	2113.5	2113.5	2122.2	2148.5	2157.2
5°	2064.7	2086.0	2113.5	2142.2	2176.0	2212.2	2248.4	2260.9	2278.4	2313.4	2320.9
7.5°	2108.5	2132.2	2179.7	2218.4	2247.2	2283.4	2313.4	2318.4	2340.9	2373.4	2379.7
10°	2153.5	2174.7	2222.2	2242.2	2280.9	2320.9	2335.9	2343.4	2362.2	2387.2	2383.4
12.5°	2214.7	2220.9	2254.7	2268.4	2287.2	2312.2	2319.7	2319.7	2330.9	2370.9	2372.2
15°	2274.7	2274.7	2279.7	2272.2	2274.7	2287.2	2288.4	2272.2	2284.7	2304.7	2297.2
17.5°	2338.4	2320.9	2298.4	2265.9	2237.2	2235.9	2209.7	2171.0	2159.7	2188.5	2187.2
20°	2398.4	2368.4	2314.7	2240.9	2200.9	2147.2	2081.0	2058.5	2057.2	2062.2	2058.5
22.5°	2477.2	2415.9	2318.4	2217.2	2107.2	2022.2	1967.2	1891.0	1888.5	1877.2	1859.7
25°	2570.9	2483.4	2334.7	2191.0	2031.0	1921.0	1788.5	1707.3	1661.0	1671.0	1641.0
27.5°	2692.1	2585.9	2340.9	2133.5	1926.0	1739.8	1579.8	1474.8	1434.8	1417.3	1397.3
30°	2858.4	2694.6	2385.9	2084.7	1796.0	1549.8	1353.6	1201.1	1143.6	1158.6	1161.1
32.5°	3124.6	2900.9	2409.7	1988.5	1646.0	1342.3	1087.4	922.4	888.6	931.1	942.4
35°	3588.3	3220.8	2465.9	1931.0	1474.8	1099.8	808.6	741.1	748.6	784.9	787.4
37.5°	4044.4	3625.8	2639.6	1806.0	1269.8	814.9	627.4	591.2	627.4	673.7	679.9
40°	4364.4	3942.0	2793.4	1682.3	982.4	589.9	478.7	434.9	487.4	561.2	574.9
42.5°	4648.1	4193.2	2902.1	1511.0	672.4	421.2	343.7	355.0	432.4	486.2	498.7
45°	4851.8	4365.7	2977.1	1288.6	428.7	318.7	307.5	343.7	417.4	459.9	463.7
47.5°	4980.6	4466.9	2922.1	1014.9	322.5	301.2	302.5	348.7	422.4	469.9	468.7
50°	5096.8	4520.6	2743.4	804.9	306.2	288.7	308.7	362.5	438.7	482.4	479.9
52.5°	5220.5	4573.1	2525.9	631.2	293.7	282.5	316.2	371.2	438.7	466.2	462.4
55°	5326.8	4619.4	2362.2	507.4	285.0	281.2	323.7	384.9	436.2	447.4	439.9
57.5°	5381.8	4540.6	2184.7	426.2	276.2	281.2	328.7	382.4	451.2	487.4	479.9
60°	5351.8	4466.9	2041.0	396.2	263.7	280.0	331.2	409.9	553.7	587.4	584.9
62.5°	5296.8	4385.7	1839.7	356.2	250.0	282.5	330.0	434.9	637.4	626.2	594.9
65°	5184.3	4223.2	1564.8	310.0	236.2	287.5	330.0	489.9	556.2	543.7	529.9
67.5°	4944.3	3872.0	1252.3	266.2	221.2	272.5	325.0	466.2	478.7	446.2	429.9
69°	4675.6	3537.0	991.1	242.5	212.5	265.0	323.7	449.9	471.2	436.2	417.4
70°	4465.6	3275.8	801.1	225.0	203.7	262.5	322.5	438.7	467.4	428.7	408.7
72.5°	3719.5	2647.1	419.9	181.2	173.7	238.7	311.2	428.7	468.7	411.2	382.4
75°	2922.1	1883.5	278.7	138.7	133.7	208.7	285.0	412.4	441.2	369.9	326.2
77.5°	1802.3	824.9	192.5	96.2	97.5	162.5	245.0	368.7	444.9	373.7	317.5
80°	523.7	318.7	122.5	65.0	60.0	96.2	192.5	317.5	422.4	383.7	346.2
82.5°	302.5	207.5	82.5	41.2	36.2	43.7	121.2	246.2	372.4	351.2	358.7
85°	68.7	57.5	30.0	20.0	20.0	25.0	41.2	142.5	257.5	301.2	340.0
87.5°	7.5	7.5	7.5	7.5	7.5	6.2	7.5	38.7	112.5	160.0	186.2
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)