

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: P233857

Luminaire Tested: **VERD-G-C028-D-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233857
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-C028-D-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 885mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13592 lumens
Efficiency: N/A
Efficacy: 132.0 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): 103
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

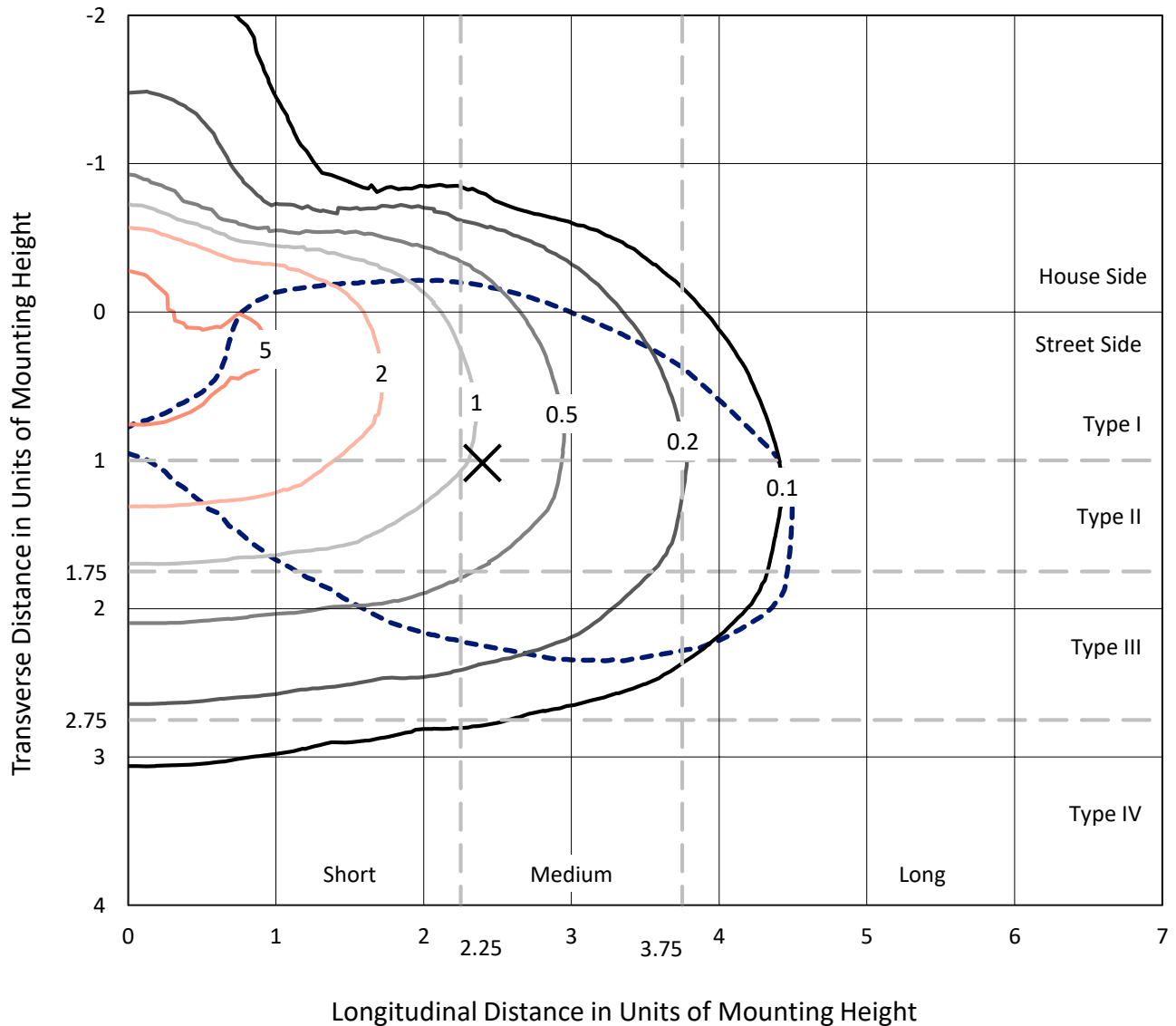


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

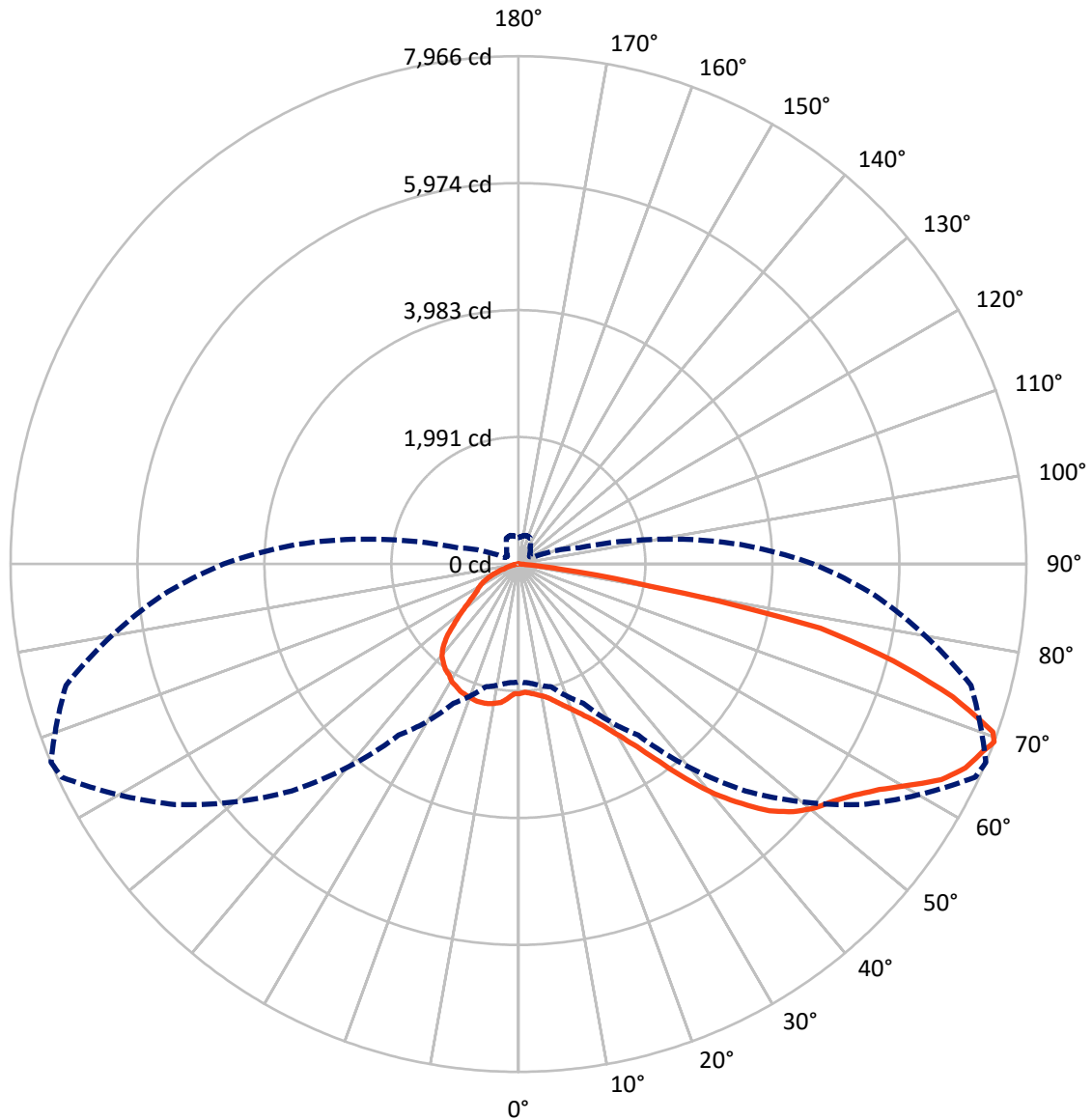


Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - Semi-Cutoff

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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	3060.8	0.0	3060.8
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	10531.2	0.0	10531.2
	% Fixture	77.5	0.0	77.5
Total	Lumens	13592.0	0.0	13592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	1.5
10°-20°	656.3	4.8
20°-30°	1130.6	8.3
30°-40°	1681.6	12.4
40°-50°	2315.9	17.0
50°-60°	2768.5	20.4
60°-70°	2921.5	21.5
70°-80°	1750.8	12.9
80°-90°	161.0	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°	13592.0	100.0
0°-180°	13592.0	100.0

Coefficient of Utilization



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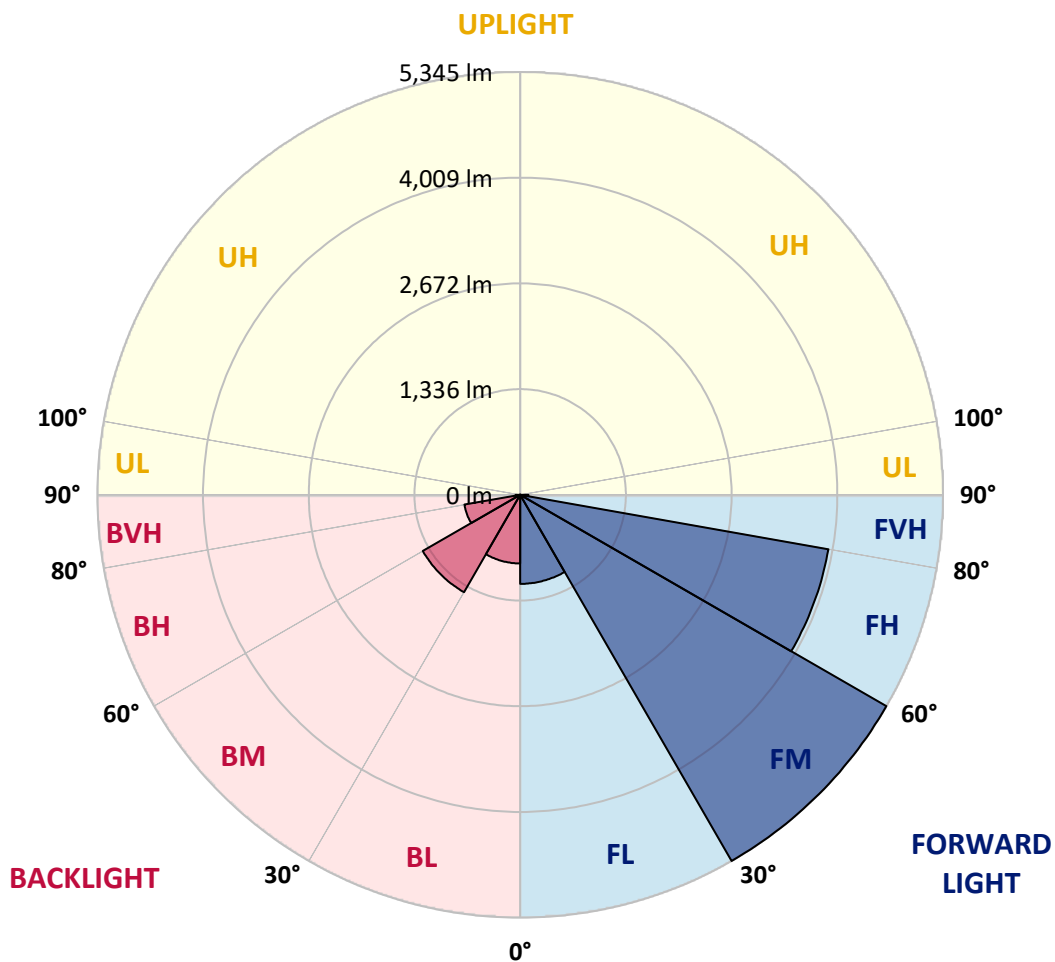
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.5	8.3			
FM (30°-60°)	5345.0	39.3			
FH (60°-80°)	3956.6	29.1			G2/5000
FVH (80°-90°)	104.1	0.8			G2/225
BL (0°-30°)	867.3	6.4	B2/1000		
BM (30°-60°)	1420.9	10.5	B2/2500		
BH (60°-80°)	715.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	56.9	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°	2033.1	2033.1	2033.1	2033.1	2033.1	2033.1	2033.1	2033.1	2033.1	2033.1	2033.1
2.5°	2066.5	2065.2	2059.0	2036.8	2034.3	2031.8	2017.0	2018.3	2014.5	2018.3	2019.5
5°	2123.3	2118.4	2112.2	2088.7	2080.0	2068.9	2046.7	2045.4	2036.8	2039.3	2041.7
7.5°	2193.8	2188.8	2183.9	2156.7	2148.0	2128.2	2093.6	2076.3	2068.9	2071.4	2075.1
10°	2288.9	2280.3	2272.9	2233.3	2219.7	2186.3	2144.3	2114.7	2104.8	2108.5	2118.4
12.5°	2397.7	2386.6	2374.2	2333.4	2314.9	2263.0	2213.5	2175.2	2160.4	2169.0	2176.4
15°	2510.1	2504.0	2499.0	2450.8	2424.9	2368.0	2306.2	2258.0	2244.4	2251.8	2255.5
17.5°	2658.5	2654.7	2646.1	2596.7	2547.2	2481.7	2401.4	2350.7	2337.1	2340.8	2332.2
20°	2820.4	2810.5	2805.5	2749.9	2698.0	2607.8	2515.1	2443.4	2439.7	2440.9	2413.7
22.5°	3002.0	2990.9	2981.0	2930.4	2866.1	2761.0	2639.9	2559.6	2562.1	2564.5	2504.0
25°	3187.4	3178.8	3170.1	3121.9	3057.7	2942.7	2796.9	2706.7	2705.4	2706.7	2622.6
27.5°	3381.5	3371.6	3370.3	3330.8	3266.5	3149.1	2981.0	2889.6	2889.6	2884.6	2757.3
30°	3554.5	3564.4	3564.4	3542.1	3481.6	3364.2	3206.0	3114.5	3126.9	3117.0	2955.1
32.5°	3743.6	3741.1	3758.4	3741.1	3691.7	3582.9	3450.7	3392.6	3413.6	3445.7	3283.8
35°	3853.6	3870.9	3914.1	3938.9	3915.4	3826.4	3730.0	3774.5	3802.9	3947.5	3753.5
37.5°	3980.9	3995.7	4055.0	4115.6	4125.5	4077.3	4077.3	4223.1	4278.7	4467.8	4241.7
40°	4068.6	4083.5	4147.7	4218.2	4314.6	4348.0	4434.5	4660.6	4739.7	4867.0	4605.0
42.5°	4016.7	4024.1	4162.6	4334.4	4476.5	4637.2	4774.3	5061.1	5136.5	5225.5	4904.1
45°	3925.3	3938.9	4092.1	4369.0	4613.7	4932.5	5105.6	5438.0	5524.5	5515.9	5134.0
47.5°	3823.9	3844.9	4015.5	4324.5	4731.1	5188.4	5408.4	5754.4	5803.9	5742.1	5293.4
50°	3711.5	3747.3	3929.0	4280.0	4816.4	5412.1	5633.3	5991.7	6017.7	5891.6	5433.1
52.5°	3582.9	3606.4	3807.9	4194.7	4875.7	5560.4	5812.5	6168.5	6179.6	6077.0	5580.2
55°	3405.0	3426.0	3649.7	4081.0	4884.3	5648.1	5927.5	6357.6	6394.6	6294.5	5713.6
57.5°	3213.4	3239.3	3469.2	3916.6	4805.2	5684.0	6065.9	6601.0	6672.7	6529.3	5821.2
60°	2990.9	3024.3	3256.6	3716.4	4649.5	5739.6	6324.2	6955.7	7044.7	6795.1	5923.7
62.5°	2759.8	2778.3	2992.2	3439.6	4407.3	5768.0	6559.0	7361.1	7446.4	7046.0	5971.9
65°	2434.8	2464.4	2654.7	3107.1	4066.2	5645.7	6669.0	7644.1	7705.9	7249.9	5925.0
67.5°	2089.9	2089.9	2251.8	2709.1	3611.3	5321.9	6624.5	7780.1	7854.3	7393.3	5776.7
69°	1851.4	1869.9	1993.5	2410.0	3277.7	5033.9	6576.3	7904.9	7965.5	7347.5	5606.1
70°	1668.5	1684.6	1809.4	2192.5	3029.2	4806.5	6472.5	7849.3	7893.8	7206.6	5426.9
72.5°	1227.3	1240.9	1327.4	1527.6	2277.8	3878.3	5836.0	7096.6	7123.8	6481.1	4787.9
75°	836.7	844.1	909.6	1032.0	1328.6	2711.6	4768.2	5994.2	6074.5	5620.9	3920.3
77.5°	289.2	311.5	351.0	474.6	568.5	1065.4	3231.9	4723.7	4843.6	4352.9	2742.5
80°	98.9	97.6	187.9	243.5	299.1	489.4	1022.1	1979.9	2092.4	1794.6	987.5
82.5°	74.2	76.6	124.8	134.7	91.5	180.4	398.0	605.6	663.7	579.6	409.1
85°	47.0	45.7	55.6	58.1	42.0	76.6	96.4	97.6	101.3	87.8	89.0
87.5°	26.0	26.0	24.7	21.0	11.1	9.9	8.7	8.7	7.4	7.4	7.4
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°	2033.1	2033.1	2033.1	2033.1	2033.1	2033.1	2033.1	2033.1	2033.1	2033.1	2033.1
2.5°	2013.3	2030.6	2034.3	2039.3	2051.6	2067.7	2089.9	2089.9	2098.6	2124.5	2133.2
5°	2041.7	2062.7	2089.9	2118.4	2151.7	2187.6	2223.4	2235.8	2253.1	2287.7	2295.1
7.5°	2085.0	2108.5	2155.4	2193.8	2222.2	2258.0	2287.7	2292.6	2314.9	2347.0	2353.2
10°	2129.5	2150.5	2197.5	2217.2	2255.5	2295.1	2309.9	2317.3	2335.9	2360.6	2356.9
12.5°	2190.0	2196.2	2229.6	2243.2	2261.7	2286.4	2293.9	2293.9	2305.0	2344.5	2345.8
15°	2249.4	2249.4	2254.3	2246.9	2249.4	2261.7	2263.0	2246.9	2259.3	2279.0	2271.6
17.5°	2312.4	2295.1	2272.9	2240.7	2212.3	2211.1	2185.1	2146.8	2135.7	2164.1	2162.9
20°	2371.7	2342.1	2288.9	2216.0	2176.4	2123.3	2057.8	2035.6	2034.3	2039.3	2035.6
22.5°	2449.6	2389.0	2292.6	2192.5	2083.8	1999.7	1945.3	1869.9	1867.5	1856.3	1839.0
25°	2542.3	2455.8	2308.7	2166.6	2008.4	1899.6	1768.6	1688.3	1642.5	1652.4	1622.8
27.5°	2662.2	2557.1	2314.9	2109.7	1904.5	1720.4	1562.2	1458.4	1418.8	1401.5	1381.8
30°	2826.5	2664.6	2359.4	2061.5	1776.0	1532.5	1338.5	1187.7	1130.9	1145.7	1148.2
32.5°	3089.8	2868.6	2382.8	1966.3	1627.7	1327.4	1075.2	912.1	878.7	920.8	931.9
35°	3548.3	3185.0	2438.5	1909.5	1458.4	1087.6	799.6	732.9	740.3	776.2	778.6
37.5°	3999.4	3585.4	2610.3	1785.9	1255.7	805.8	620.4	584.6	620.4	666.2	672.3
40°	4315.8	3898.1	2762.3	1663.5	971.4	583.4	473.4	430.1	482.0	554.9	568.5
42.5°	4596.4	4146.5	2869.8	1494.2	664.9	416.5	339.9	351.0	427.6	480.8	493.1
45°	4797.8	4317.1	2944.0	1274.2	423.9	315.2	304.0	339.9	412.8	454.8	458.5
47.5°	4925.1	4417.2	2889.6	1003.6	318.9	297.9	299.1	344.8	417.7	464.7	463.5
50°	5040.1	4470.3	2712.8	795.9	302.8	285.5	305.3	358.4	433.8	477.1	474.6
52.5°	5162.4	4522.2	2497.8	624.1	290.4	279.3	312.7	367.1	433.8	461.0	457.3
55°	5267.5	4567.9	2335.9	501.8	281.8	278.1	320.1	380.7	431.3	442.5	435.0
57.5°	5321.9	4490.1	2160.4	421.4	273.1	278.1	325.0	378.2	446.2	482.0	474.6
60°	5292.2	4417.2	2018.3	391.8	260.8	276.8	327.5	405.4	547.5	580.9	578.4
62.5°	5237.8	4336.8	1819.3	352.2	247.2	279.3	326.3	430.1	630.3	619.2	588.3
65°	5126.6	4176.2	1547.4	306.5	233.6	284.3	326.3	484.5	550.0	537.6	524.0
67.5°	4889.3	3828.9	1238.4	263.3	218.8	269.4	321.3	461.0	473.4	441.2	425.2
69°	4623.6	3497.6	980.1	239.8	210.1	262.0	320.1	444.9	465.9	431.3	412.8
70°	4415.9	3239.3	792.2	222.5	201.5	259.5	318.9	433.8	462.2	423.9	404.1
72.5°	3678.1	2617.7	415.3	179.2	171.8	236.1	307.7	423.9	463.5	406.6	378.2
75°	2889.6	1862.5	275.6	137.2	132.2	206.4	281.8	407.9	436.3	365.8	322.6
77.5°	1782.2	815.7	190.3	95.2	96.4	160.7	242.2	364.6	440.0	369.5	313.9
80°	517.8	315.2	121.1	64.3	59.3	95.2	190.3	313.9	417.7	379.4	342.3
82.5°	299.1	205.2	81.6	40.8	35.8	43.3	119.9	243.5	368.3	347.3	354.7
85°	68.0	56.9	29.7	19.8	19.8	24.7	40.8	140.9	254.6	297.9	336.2
87.5°	7.4	7.4	7.4	7.4	7.4	6.2	7.4	38.3	111.2	158.2	184.2
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)