

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: P509241

Luminaire Tested: **VERD-CA2-130-760-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-760-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1180mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18292 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

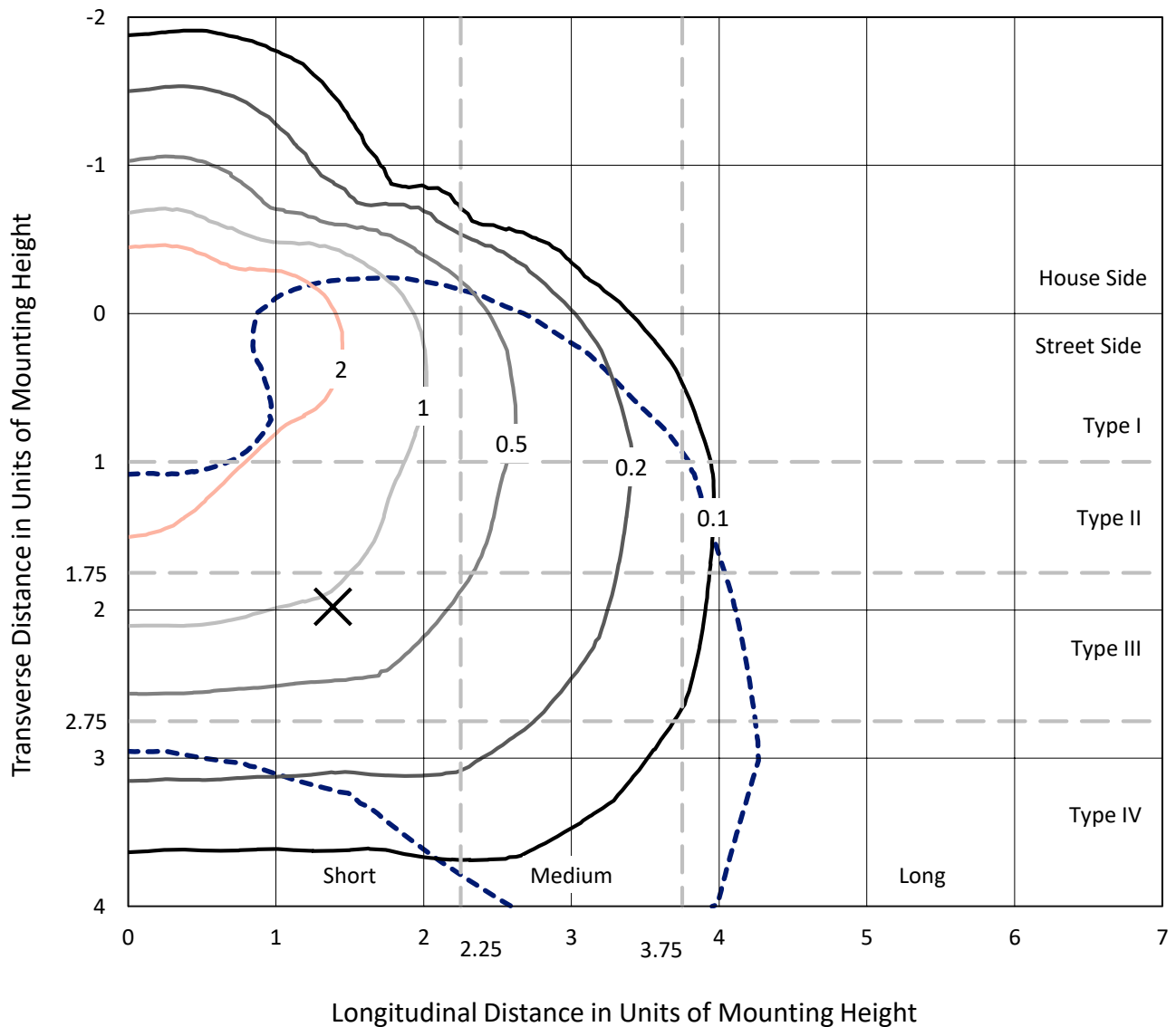
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

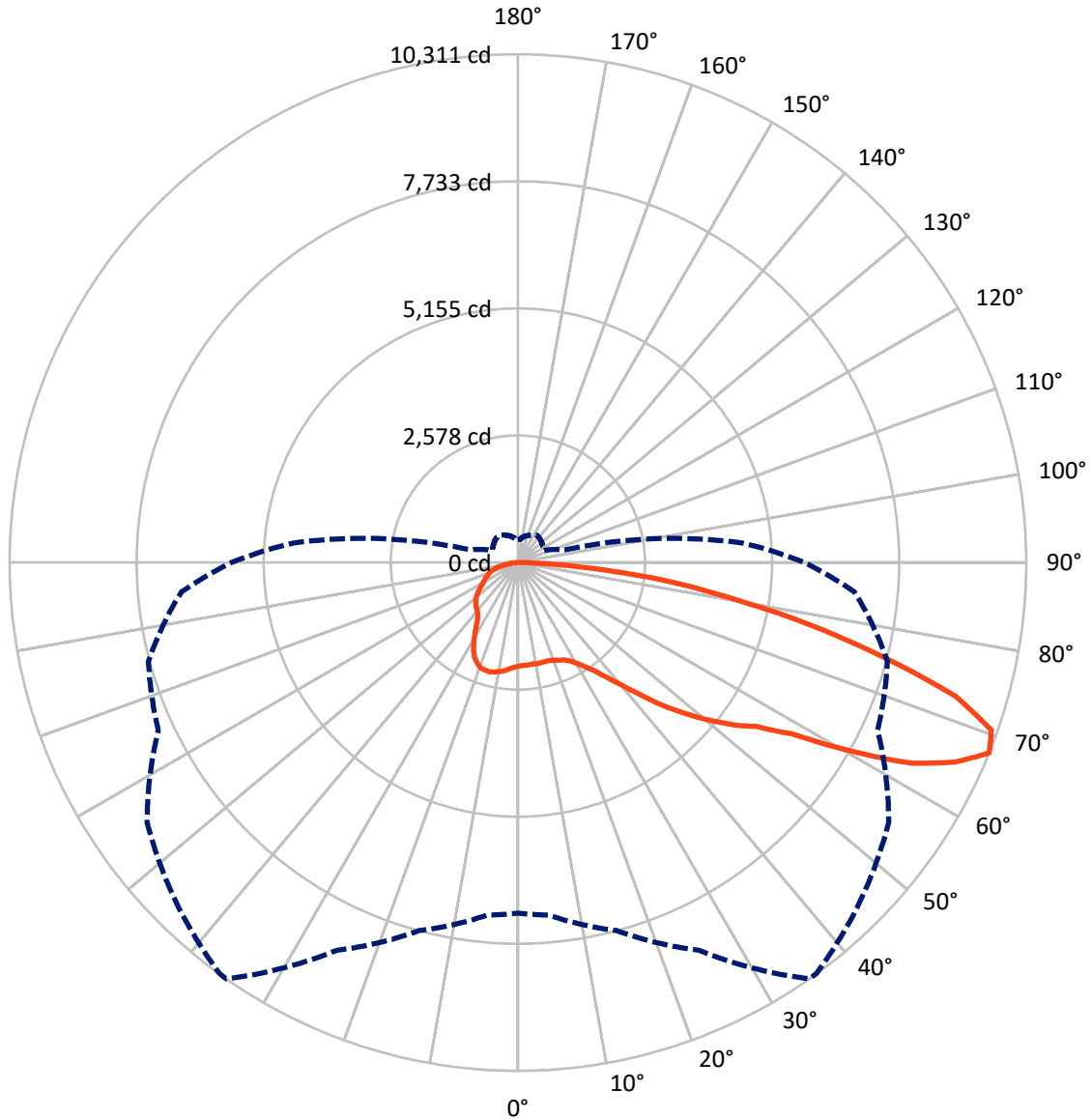
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4167.3	0.0	4167.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	14124.7	0.0	14124.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	18292.0	0.0	18292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	1.1
10°-20°	624.0	3.4
20°-30°	1041.4	5.7
30°-40°	1602.3	8.8
40°-50°	2640.5	14.4
50°-60°	3771.4	20.6
60°-70°	4695.6	25.7
70°-80°	3168.8	17.3
80°-90°	544.7	3.0
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°	18292.0	100.0
0°-180°	18292.0	100.0

Coefficient of Utilization



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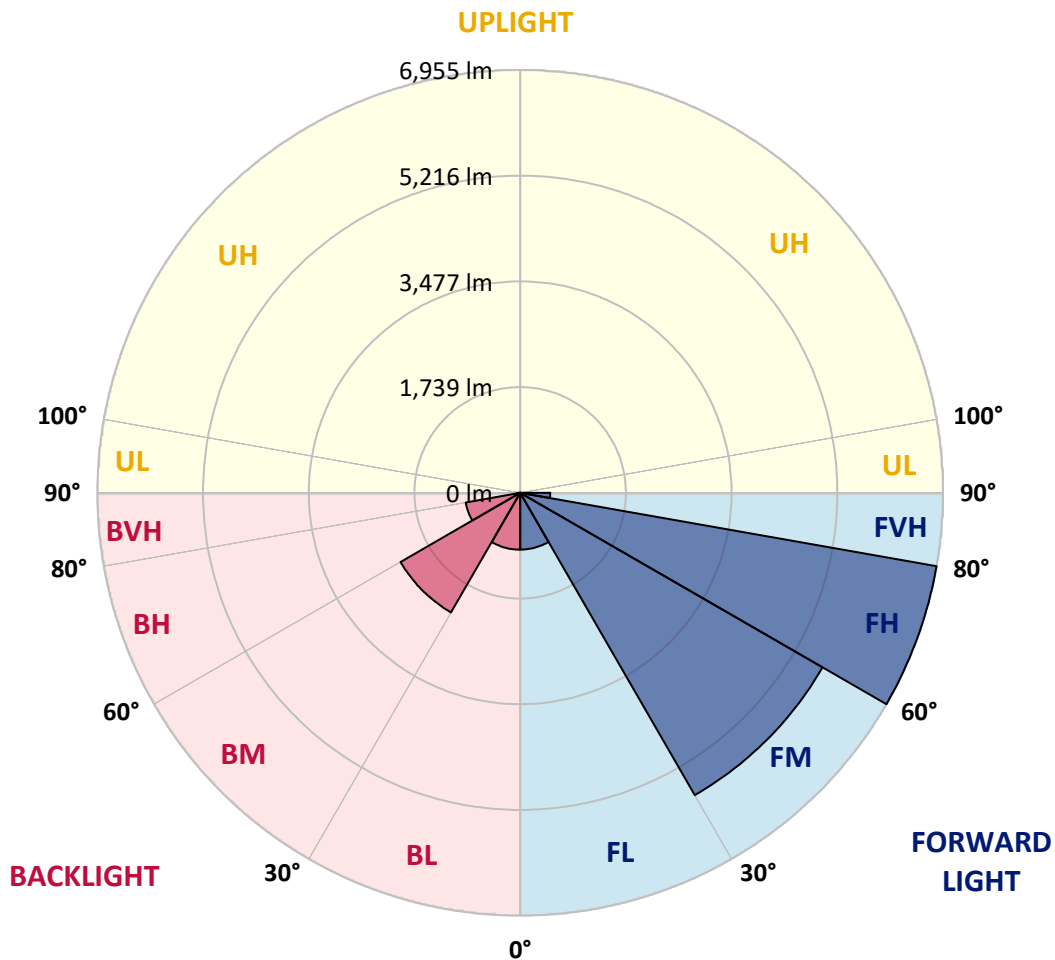
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	933.5	5.1			
FM	(30°-60°)	5742.1	31.4			
FH	(60°-80°)	6954.7	38.0			G3/7500
FVH	(80°-90°)	494.4	2.7			G3/500
BL	(0°-30°)	935.3	5.1	B2/1000		
BM	(30°-60°)	2272.1	12.4	B2/2500		
BH	(60°-80°)	909.7	5.0	B2/1000		G2/1000
BVH	(80°-90°)	50.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0
2.5°	2072.4	2092.1	2090.2	2086.2	2088.2	2090.2	2080.3	2074.4	2082.3	2084.2	2094.1
5°	2070.4	2086.2	2084.2	2084.2	2090.2	2088.2	2072.4	2060.6	2074.4	2084.2	2094.1
7.5°	2068.5	2082.3	2082.3	2076.4	2080.3	2080.3	2072.4	2080.3	2080.3	2096.1	2107.9
10°	2066.5	2078.3	2078.3	2080.3	2086.2	2088.2	2088.2	2094.1	2115.8	2121.7	2145.4
12.5°	2042.8	2052.7	2060.6	2072.4	2084.2	2088.2	2098.0	2115.8	2143.4	2157.2	2184.8
15°	2023.1	2036.9	2050.7	2062.5	2080.3	2084.2	2105.9	2135.5	2165.1	2194.7	2236.1
17.5°	2031.0	2048.7	2064.5	2074.4	2088.2	2092.1	2113.8	2153.3	2200.6	2244.0	2301.1
20°	2048.7	2068.5	2084.2	2096.1	2113.8	2117.8	2135.5	2173.0	2234.1	2301.1	2366.2
22.5°	2092.1	2105.9	2123.7	2129.6	2149.3	2153.3	2165.1	2202.5	2281.4	2366.2	2449.0
25°	2131.6	2147.3	2161.1	2167.1	2188.7	2192.7	2214.4	2245.9	2338.6	2435.2	2555.5
27.5°	2182.8	2198.6	2216.4	2222.3	2259.7	2263.7	2273.5	2320.9	2413.5	2525.9	2675.8
30°	2281.4	2291.3	2311.0	2334.7	2372.1	2376.1	2397.8	2447.1	2514.1	2652.1	2851.3
32.5°	2431.3	2445.1	2437.2	2468.7	2524.0	2524.0	2598.9	2681.7	2764.5	2861.1	3125.4
35°	2719.2	2711.3	2703.4	2675.8	2709.3	2721.1	2825.7	2965.7	3196.4	3468.5	3728.8
37.5°	3076.1	3074.1	3032.7	2969.6	2967.6	2971.6	3066.2	3302.8	3669.6	4275.0	4555.0
40°	3624.2	3640.0	3494.1	3364.0	3291.0	3275.2	3350.2	3647.9	4140.9	4947.4	5138.6
42.5°	4172.4	4138.9	4020.6	3809.6	3687.3	3677.5	3691.3	3951.6	4598.3	5491.6	5560.6
45°	4657.5	4683.1	4497.8	4369.6	4144.8	4148.8	4087.6	4326.2	5051.9	5876.1	5887.9
47.5°	5152.4	5172.1	4941.4	4795.5	4580.6	4580.6	4484.0	4673.3	5456.1	6242.9	6219.2
50°	5680.9	5726.2	5436.4	5215.5	5018.3	5010.5	4980.9	5099.2	5854.4	6552.4	6457.8
52.5°	6394.7	6238.9	5964.8	5665.1	5469.9	5446.2	5418.6	5503.4	6311.9	6804.8	6611.6
55°	7132.2	6921.2	6641.2	6238.9	5870.2	5903.7	5834.7	5931.3	6731.9	7106.5	6812.7
57.5°	7579.8	7658.6	7506.8	7161.7	6554.4	6548.5	6288.2	6339.5	7108.5	7360.9	7025.7
60°	8051.0	8161.5	8264.0	8058.9	7771.0	7640.9	6972.4	6773.3	7532.4	7546.2	7002.0
62.5°	8297.5	8275.8	8721.5	8745.1	8967.9	8983.7	8331.0	7335.3	7782.9	7702.0	7084.8
65°	7857.8	7869.6	8603.2	8985.7	9752.7	9798.1	9559.5	8323.2	7993.9	7775.0	6990.2
67.5°	7112.4	7179.5	7729.6	8676.1	10310.8	10302.9	9786.3	9182.9	8049.1	7759.2	6852.2
70°	5816.9	5887.9	6451.9	7826.2	10188.5	10123.4	9689.6	9251.9	8001.7	7617.2	6164.0
72.5°	4462.3	4452.4	5036.1	6250.7	9289.4	9352.5	9194.7	8764.8	7775.0	7009.9	5049.9
75°	3145.1	3095.8	3614.4	4738.3	7660.6	7893.3	8431.6	8313.3	6917.2	5769.6	3375.8
77.5°	2064.5	2139.5	2553.5	3504.0	6024.0	6219.2	6962.6	6727.9	5118.9	3681.4	1218.6
80°	1311.3	1378.3	1713.5	2502.3	4379.5	4468.2	5075.5	4278.9	2734.9	1214.7	169.6
82.5°	796.6	806.5	1104.2	1691.8	3020.9	3020.9	3196.4	2391.8	1070.7	157.7	110.4
85°	423.9	447.6	595.5	913.0	1522.3	1636.6	1449.3	913.0	207.0	86.8	67.0
87.5°	134.1	136.1	195.2	353.0	327.3	337.2	112.4	47.3	23.7	15.8	13.8
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°	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0
2.5°	2098.0	2100.0	2111.8	2117.8	2119.7	2113.8	2127.6	2147.3	2141.4	2163.1	2155.2
5°	2098.0	2107.9	2123.7	2121.7	2137.5	2145.4	2161.1	2180.9	2174.9	2206.5	2194.7
7.5°	2113.8	2129.6	2141.4	2165.1	2176.9	2173.0	2208.5	2224.2	2216.4	2240.0	2228.2
10°	2153.3	2171.0	2186.8	2212.4	2230.2	2222.3	2242.0	2251.8	2238.0	2261.7	2255.8
12.5°	2198.6	2218.3	2249.9	2267.6	2281.4	2267.6	2267.6	2261.7	2242.0	2263.7	2249.9
15°	2249.9	2275.5	2318.9	2338.6	2334.7	2311.0	2289.3	2247.9	2194.7	2204.5	2184.8
17.5°	2318.9	2350.4	2399.7	2411.6	2395.8	2338.6	2281.4	2206.5	2111.8	2088.2	2072.4
20°	2393.8	2429.3	2498.3	2492.4	2456.9	2356.4	2265.6	2149.3	2001.4	1934.4	1902.8
22.5°	2496.4	2531.8	2596.9	2561.4	2488.5	2356.4	2202.5	2040.9	1865.4	1766.8	1745.1
25°	2608.7	2658.0	2685.7	2606.8	2480.6	2303.1	2117.8	1904.8	1680.0	1573.5	1551.8
27.5°	2746.8	2780.3	2752.7	2612.7	2441.1	2214.4	1979.7	1723.4	1508.5	1417.8	1386.2
30°	2908.5	2912.4	2804.0	2600.9	2352.4	2088.2	1810.2	1540.0	1374.4	1289.6	1269.9
32.5°	3123.4	3084.0	2849.3	2545.7	2232.1	1914.7	1620.9	1417.8	1279.7	1173.2	1145.6
35°	3683.4	3504.0	2949.9	2482.6	2086.2	1721.4	1457.2	1307.3	1191.0	1070.7	1049.0
37.5°	4409.0	4091.6	3127.3	2417.5	1920.6	1544.0	1348.7	1242.3	1143.7	1009.6	980.0
40°	4953.3	4586.5	3401.4	2346.5	1768.7	1417.8	1289.6	1216.6	1108.2	985.9	954.4
42.5°	5369.3	4998.6	3683.4	2267.6	1626.8	1319.2	1248.2	1198.9	1094.4	980.0	954.4
45°	5657.2	5286.5	3925.9	2174.9	1445.4	1234.4	1216.6	1169.3	1068.7	958.3	932.7
47.5°	5949.1	5489.6	4062.0	2078.3	1293.5	1187.0	1171.3	1118.0	1025.4	920.9	901.1
50°	6203.4	5720.3	4178.3	1979.7	1173.2	1129.9	1120.0	1049.0	960.3	861.7	836.1
52.5°	6276.4	5775.5	4131.0	1973.8	1064.8	1068.7	1049.0	991.8	909.0	802.5	776.9
55°	6442.0	5929.3	4016.6	1792.4	960.3	974.1	970.1	940.6	863.7	765.1	745.4
57.5°	6513.0	5813.0	3851.0	1333.0	851.8	863.7	897.2	897.2	830.1	741.4	723.7
60°	6503.1	5816.9	3555.2	932.7	745.4	776.9	824.2	824.2	771.0	684.2	662.5
62.5°	6428.2	5667.1	3064.2	711.8	678.3	723.7	778.9	743.4	696.1	599.4	583.7
65°	6304.0	5255.0	2123.7	625.1	640.8	694.1	721.7	678.3	621.1	534.4	524.5
67.5°	5807.1	4564.8	987.9	571.8	609.3	650.7	674.4	613.2	554.1	475.2	463.4
70°	4943.4	3340.3	425.9	530.4	571.8	601.4	625.1	562.0	498.9	429.9	425.9
72.5°	3594.7	1782.5	354.9	465.4	508.7	540.3	569.9	506.8	445.6	364.8	364.8
75°	1731.3	295.8	305.6	386.5	425.9	489.0	502.8	414.1	345.1	278.0	272.1
77.5°	213.0	191.3	264.2	307.6	341.1	374.7	408.2	358.9	297.7	228.7	216.9
80°	134.1	134.1	209.0	214.9	232.7	268.2	299.7	280.0	234.6	132.1	122.3
82.5°	98.6	106.5	138.0	102.5	122.3	153.8	175.5	199.2	169.6	92.7	86.8
85°	63.1	69.0	65.1	51.3	67.0	102.5	140.0	138.0	114.4	69.0	65.1
87.5°	13.8	13.8	13.8	11.8	13.8	17.7	33.5	65.1	47.3	37.5	35.5
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)