

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: P233872

Luminaire Tested: **VERD-G-C02H-D-U-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02H-D-U-T4-7030
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1370mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18284 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 155
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

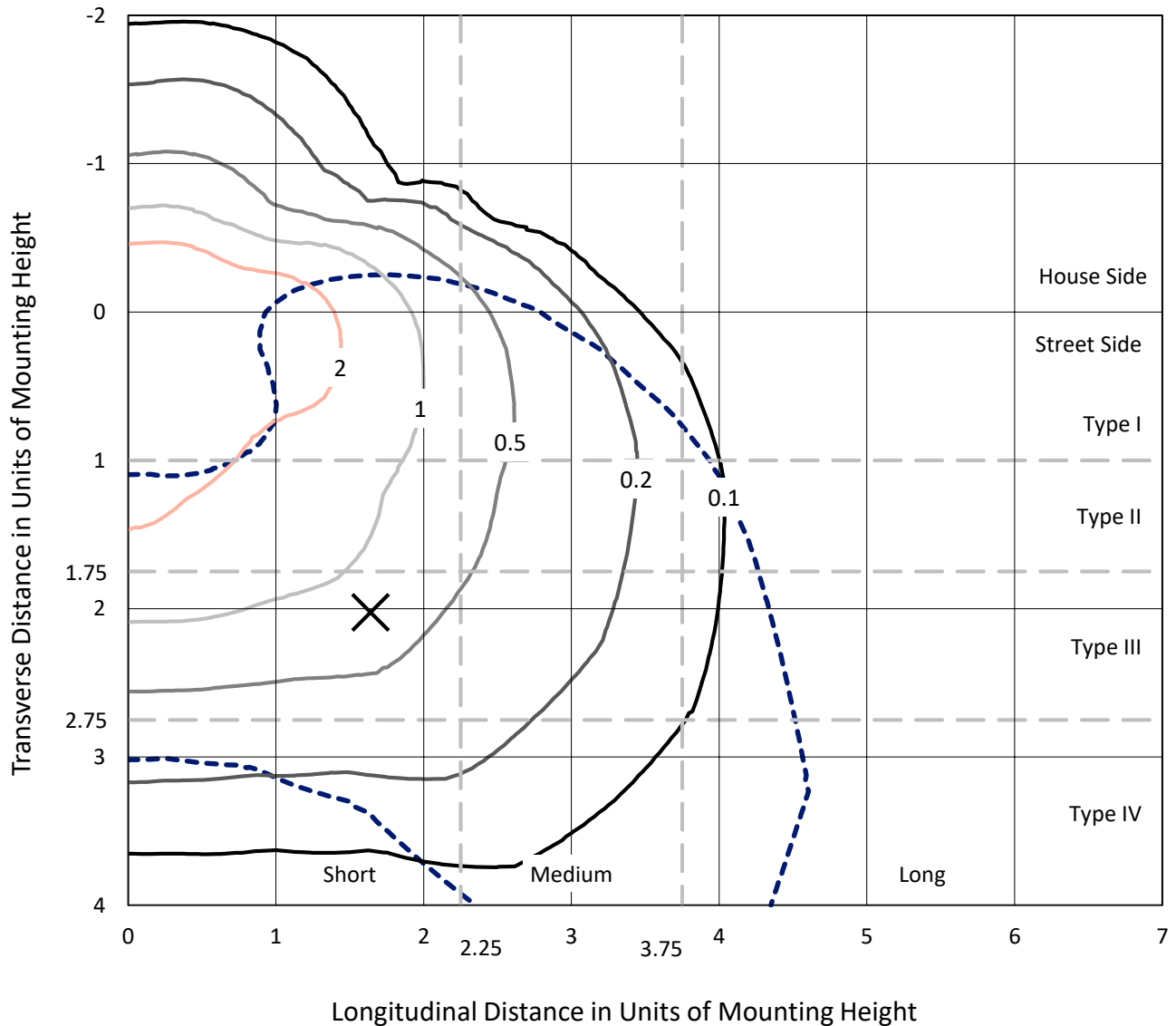


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Iso-Footcandle Lines of Horizontal Illumination

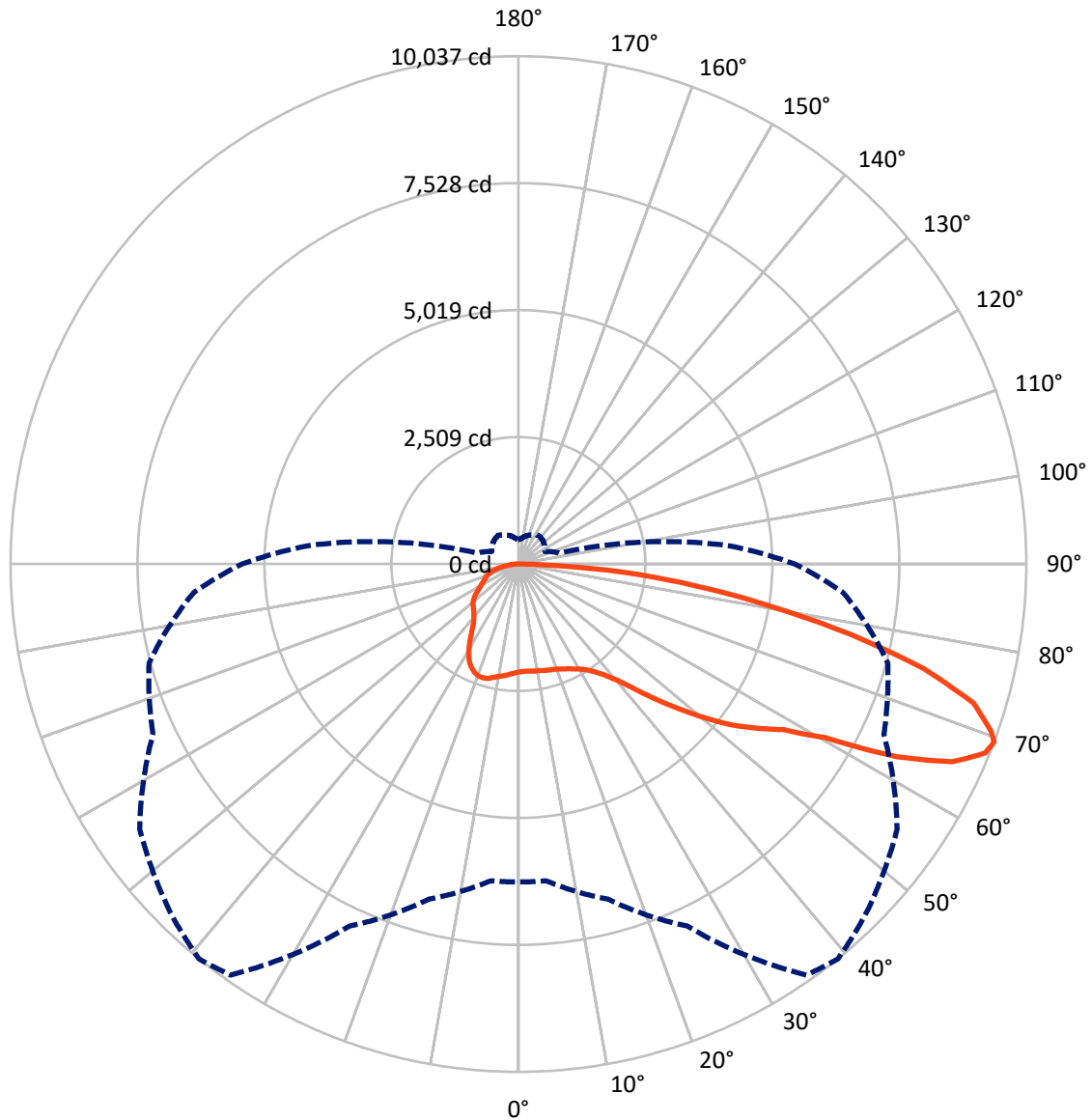
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4286.1	0.0	4286.1
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	13997.9	0.0	13997.9
	% Fixture	76.6	0.0	76.6
Total	Lumens	18284.0	0.0	18284.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.1
10°-20°	639.7	3.5
20°-30°	1076.9	5.9
30°-40°	1560.1	8.5
40°-50°	2521.8	13.8
50°-60°	3691.9	20.2
60°-70°	4620.9	25.3
70°-80°	3303.4	18.1
80°-90°	662.3	3.6
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°	18284.0	100.0
0°-180°	18284.0	100.0



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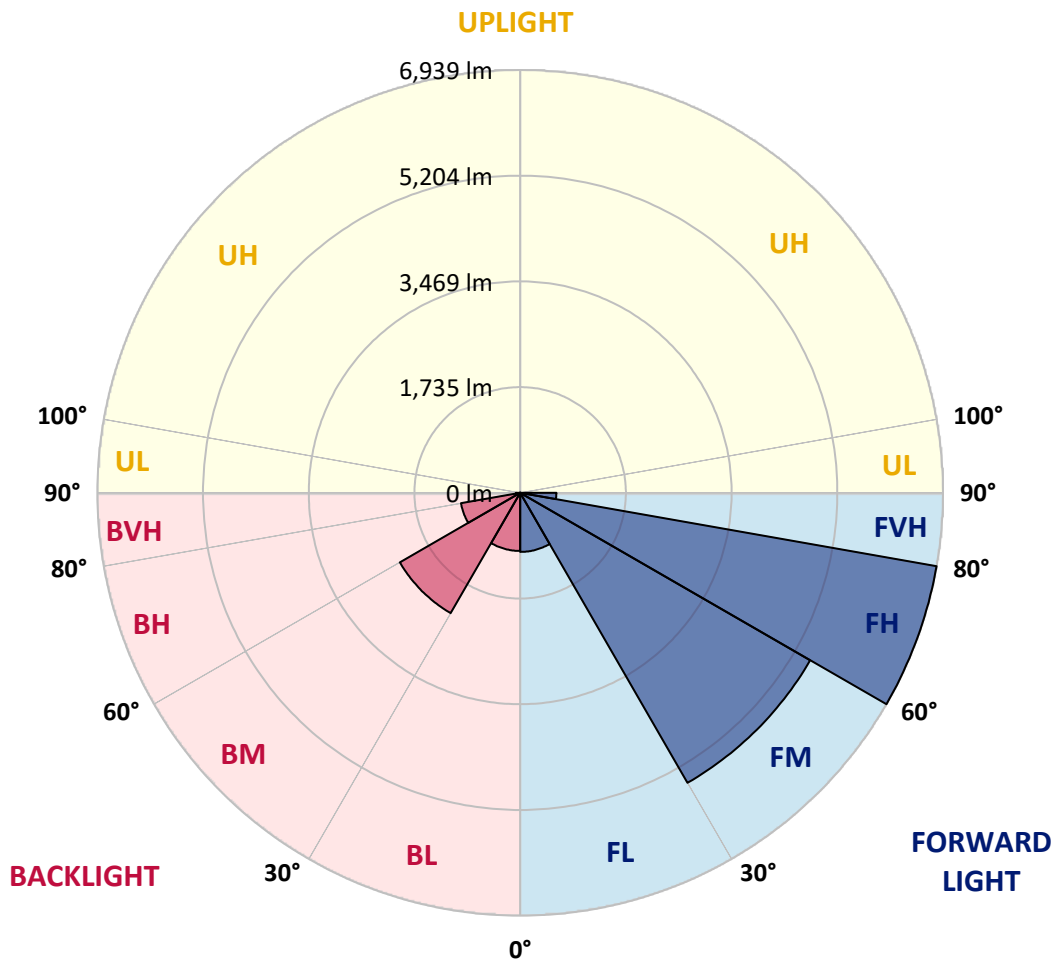
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	970.0	5.3			
FM	(30°-60°)	5494.6	30.1			
FH	(60°-80°)	6938.7	37.9			G3/7500
FVH	(80°-90°)	594.6	3.3			G4/750
BL	(0°-30°)	953.5	5.2	B2/1000		
BM	(30°-60°)	2279.2	12.5	B2/2500		
BH	(60°-80°)	985.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	67.7	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2129.7	2129.7	2129.7	2129.7	2129.7	2129.7	2129.7	2129.7	2129.7	2129.7	2129.7
2.5°	2166.8	2163.4	2156.7	2129.7	2126.4	2124.7	2128.0	2117.9	2116.3	2119.6	2116.3
5°	2168.5	2165.1	2156.7	2133.1	2129.7	2126.4	2128.0	2119.6	2121.3	2129.7	2129.7
7.5°	2171.9	2168.5	2160.1	2134.8	2141.5	2138.2	2144.9	2133.1	2133.1	2139.8	2141.5
10°	2163.4	2161.7	2156.7	2138.2	2148.3	2141.5	2148.3	2149.9	2156.7	2161.7	2160.1
12.5°	2141.5	2141.5	2141.5	2133.1	2161.7	2160.1	2171.9	2183.6	2200.5	2208.9	2214.0
15°	2128.0	2126.4	2138.2	2136.5	2171.9	2176.9	2197.1	2227.5	2252.7	2274.6	2281.4
17.5°	2141.5	2141.5	2156.7	2153.3	2188.7	2192.1	2214.0	2257.8	2299.9	2342.0	2360.6
20°	2156.7	2158.4	2176.9	2182.0	2215.7	2214.0	2235.9	2289.8	2347.1	2409.4	2441.4
22.5°	2203.9	2202.2	2217.3	2207.2	2246.0	2252.7	2271.3	2318.4	2399.3	2478.5	2530.7
25°	2239.3	2244.3	2259.5	2252.7	2284.7	2293.2	2323.5	2369.0	2465.0	2559.4	2652.1
27.5°	2272.9	2283.1	2294.9	2293.2	2337.0	2347.1	2370.7	2441.4	2552.6	2665.5	2795.3
30°	2323.5	2320.1	2328.6	2343.7	2401.0	2407.7	2436.4	2522.3	2657.1	2803.7	2977.2
32.5°	2390.9	2387.5	2395.9	2409.4	2478.5	2495.4	2534.1	2626.8	2797.0	2973.9	3186.2
35°	2497.0	2505.5	2512.2	2529.1	2596.5	2620.0	2672.3	2790.2	2987.4	3270.4	3573.7
37.5°	2866.0	2847.5	2810.4	2743.0	2761.6	2788.5	2862.7	3031.2	3317.6	3797.8	4075.8
40°	3442.3	3420.4	3304.1	3107.0	3017.7	3024.4	3096.9	3326.0	3716.9	4417.8	4674.0
42.5°	3984.8	3957.9	3819.7	3573.7	3396.8	3376.6	3383.3	3647.8	4155.0	5037.9	5174.4
45°	4497.0	4510.5	4299.9	4111.2	3909.0	3816.3	3787.7	3984.8	4641.9	5575.4	5617.5
47.5°	4987.3	4997.5	4759.9	4577.9	4382.5	4274.6	4219.0	4372.4	5090.1	6010.1	5971.3
50°	5487.8	5514.7	5189.5	5034.5	4854.2	4776.7	4722.8	4823.9	5585.5	6426.3	6306.6
52.5°	6193.7	6080.9	5654.6	5435.5	5307.5	5283.9	5228.3	5310.8	6111.2	6793.6	6544.2
55°	6978.9	6738.0	6289.8	5907.3	5730.4	5730.4	5681.5	5777.6	6653.7	7068.2	6738.0
57.5°	7233.3	7256.9	7101.9	6685.7	6210.6	6173.5	6126.3	6257.8	7118.8	7314.2	6810.4
60°	7678.2	7743.9	7863.5	7516.4	7282.2	6967.1	6680.7	6751.4	7519.8	7516.4	6887.9
62.5°	7898.9	7961.2	8335.3	8148.2	8369.0	8390.9	7855.1	7309.2	7816.3	7617.5	6925.0
65°	7689.9	7733.8	8232.5	8478.5	9118.8	9423.7	9159.2	8058.9	7973.0	7575.4	6786.8
67.5°	7004.2	7086.7	7499.6	8249.3	9787.7	9957.8	9710.2	9088.4	8040.4	7588.9	6675.6
69°	6283.0	6284.7	6857.6	7897.2	9919.1	10037.0	9733.7	9137.3	7969.6	7556.8	6438.1
70°	5877.0	5919.1	6343.7	7592.2	9870.2	9909.0	9676.5	9135.6	7920.8	7546.7	6212.3
72.5°	4586.3	4564.4	4987.3	6348.8	9317.6	9403.5	9147.4	8877.8	7880.3	7112.0	5255.2
75°	3206.4	3273.8	3688.3	4810.4	8028.6	8286.4	8286.4	8529.0	7253.6	6077.5	3799.5
77.5°	2385.8	2395.9	2727.9	3674.8	6460.0	6727.9	6973.9	7177.7	5669.7	4163.4	1698.4
80°	1615.8	1631.0	1934.3	2711.0	4786.8	5032.8	5422.1	4938.5	3373.2	1440.6	193.8
82.5°	1017.7	1037.9	1278.8	1904.0	3412.0	3523.2	3642.8	2788.5	1123.8	166.8	123.0
85°	604.9	608.3	771.7	1216.5	2080.9	2087.6	1959.6	1283.9	301.6	99.4	77.5
87.5°	252.7	266.2	337.0	539.2	609.9	481.9	299.9	102.8	45.5	40.4	27.0
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°	2129.7	2129.7	2129.7	2129.7	2129.7	2129.7	2129.7	2129.7	2129.7	2129.7	2129.7
2.5°	2106.1	2124.7	2121.3	2126.4	2133.1	2146.6	2161.7	2155.0	2163.4	2182.0	2182.0
5°	2124.7	2139.8	2144.9	2155.0	2163.4	2176.9	2187.0	2183.6	2202.2	2229.1	2229.1
7.5°	2139.8	2151.6	2168.5	2180.3	2188.7	2215.7	2225.8	2219.0	2232.5	2264.5	2266.2
10°	2161.7	2173.5	2198.8	2210.6	2227.5	2240.9	2254.4	2252.7	2266.2	2294.9	2299.9
12.5°	2215.7	2224.1	2259.5	2276.3	2276.3	2293.2	2283.1	2266.2	2272.9	2289.8	2293.2
15°	2286.4	2298.2	2343.7	2352.1	2343.7	2347.1	2323.5	2269.6	2242.6	2247.7	2249.4
17.5°	2367.3	2387.5	2439.8	2428.0	2417.9	2392.6	2331.9	2251.0	2170.2	2139.8	2144.9
20°	2453.2	2478.5	2539.2	2513.9	2476.8	2411.1	2313.4	2175.2	2050.5	1978.1	1974.7
22.5°	2552.6	2584.7	2641.9	2598.1	2515.6	2401.0	2251.0	2082.6	1924.2	1811.3	1804.5
25°	2689.1	2724.5	2744.7	2657.1	2522.3	2363.9	2161.7	1956.2	1757.4	1622.6	1612.5
27.5°	2844.1	2862.7	2822.2	2690.8	2490.3	2284.7	2050.5	1796.1	1577.1	1465.9	1450.7
30°	3016.0	3000.8	2874.5	2674.0	2407.7	2160.1	1877.0	1592.2	1417.0	1327.7	1314.2
32.5°	3214.8	3167.6	2914.9	2626.8	2298.2	1996.6	1688.3	1462.5	1322.7	1233.4	1226.6
35°	3541.7	3406.9	2980.6	2554.3	2153.3	1804.5	1514.7	1351.3	1241.8	1130.6	1113.7
37.5°	4015.1	3760.7	3076.7	2486.9	1996.6	1619.2	1383.3	1262.0	1166.0	1041.3	1017.7
40°	4507.1	4176.9	3235.0	2412.8	1850.0	1482.7	1310.9	1224.9	1130.6	1012.6	980.6
42.5°	4957.0	4572.9	3420.4	2320.1	1696.7	1373.2	1275.5	1214.8	1120.5	1009.3	984.0
45°	5364.8	4945.2	3610.8	2214.0	1528.2	1285.6	1246.8	1196.3	1100.2	994.1	973.9
47.5°	5708.5	5262.0	3802.9	2091.0	1366.5	1231.7	1216.5	1162.6	1073.3	970.5	953.7
50°	5993.2	5489.4	3912.4	1961.2	1233.4	1191.2	1172.7	1105.3	1014.3	918.3	908.2
52.5°	6203.9	5631.0	4011.8	1892.2	1128.9	1125.5	1113.7	1048.0	960.4	861.0	840.8
55°	6350.4	5747.2	3968.0	1838.2	1017.7	1043.0	1036.2	995.8	921.6	805.4	788.5
57.5°	6358.9	5757.4	3873.6	1518.1	908.2	943.6	955.3	962.1	879.5	776.7	756.5
60°	6350.4	5683.2	3698.4	1113.7	802.0	844.1	887.9	887.9	830.7	729.6	714.4
62.5°	6311.7	5536.6	3290.6	793.6	717.8	773.4	830.7	805.4	756.5	675.7	660.5
65°	6134.8	5292.3	2574.5	647.0	682.4	732.9	759.9	724.5	662.2	577.9	571.2
67.5°	5813.0	4732.9	1489.5	593.1	652.1	697.6	719.5	665.5	606.6	525.7	522.3
69°	5459.1	4166.8	839.1	579.6	633.5	674.0	692.5	633.5	576.2	498.7	483.6
70°	5142.4	3661.3	545.9	567.8	615.0	658.8	672.3	611.6	557.7	478.5	468.4
72.5°	3895.5	2205.6	367.3	519.0	564.4	598.1	618.4	561.1	500.4	421.2	401.0
75°	2128.0	599.8	323.5	444.8	502.1	547.6	552.7	480.2	392.6	311.7	303.3
77.5°	414.5	205.6	278.0	367.3	399.3	453.2	449.9	401.0	340.4	264.5	254.4
80°	156.7	148.3	232.5	262.8	281.4	338.7	358.9	323.5	283.1	180.3	155.0
82.5°	106.1	109.5	173.5	155.0	171.9	200.5	252.7	246.0	224.1	123.0	109.5
85°	74.1	85.9	96.0	65.7	84.2	126.4	166.8	161.8	138.2	85.9	77.5
87.5°	21.9	23.6	27.0	33.7	52.2	94.4	136.5	112.9	75.8	64.0	55.6
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)