

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: P509929

Luminaire Tested: **VERD-M-CA3-170-727-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-170-727-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1060mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20657 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

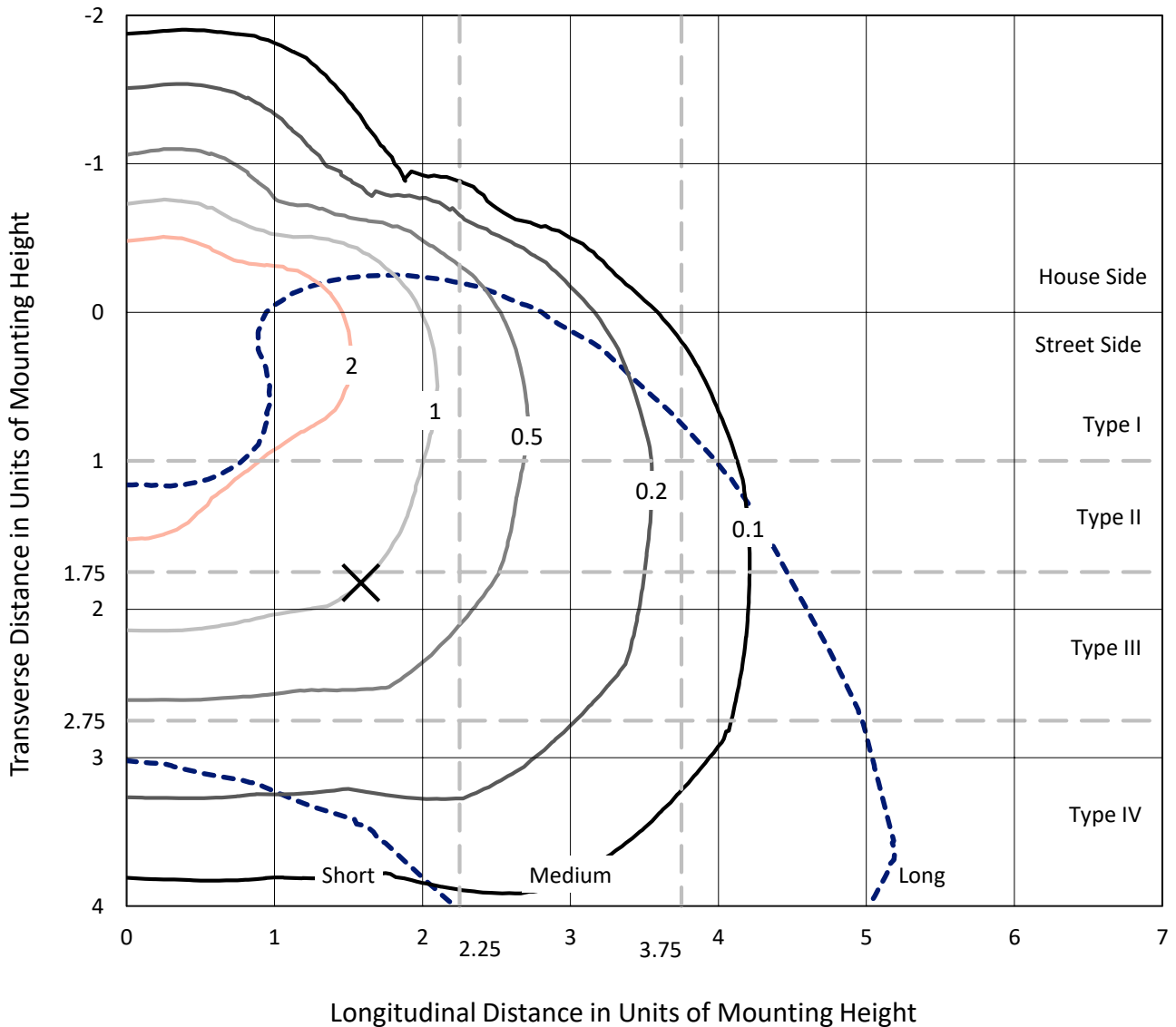
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509929
 CATALOG NUMBER: VERD-M-CA3-170-727-U-T4

Iso-Footcandle Lines of Horizontal Illumination

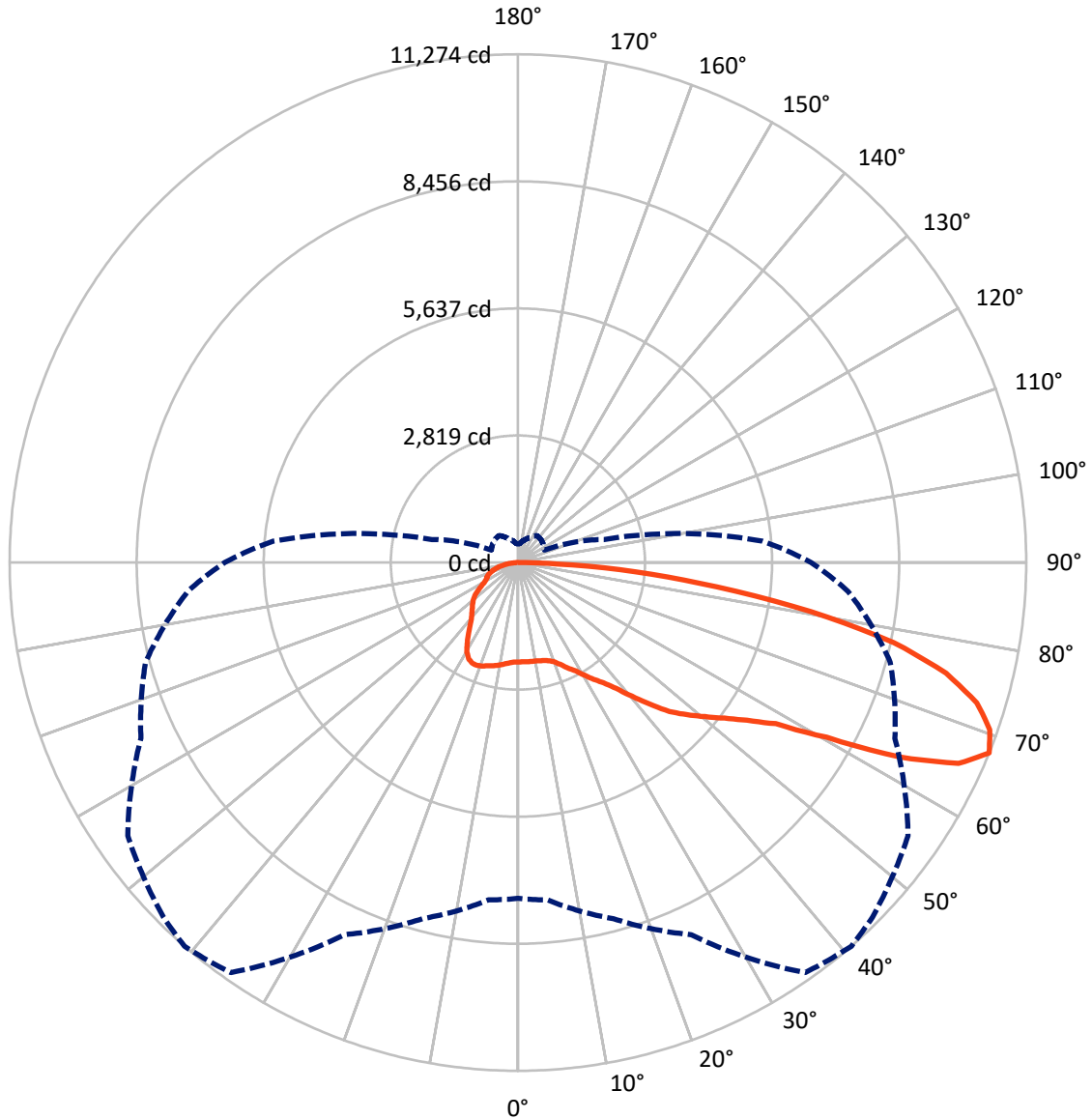
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P509929
CATALOG NUMBER: VERD-M-CA3-170-727-U-T4

Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509929

CATALOG NUMBER: VERD-M-CA3-170-727-U-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4674.6	0.0	4674.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15982.4	0.0	15982.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	20657.0	0.0	20657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	1.0
10°-20°	661.0	3.2
20°-30°	1182.0	5.7
30°-40°	1853.4	9.0
40°-50°	2874.1	13.9
50°-60°	4051.7	19.6
60°-70°	5165.0	25.0
70°-80°	3865.1	18.7
80°-90°	791.6	3.8
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°	20657.0	100.0
0°-180°	20657.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509929

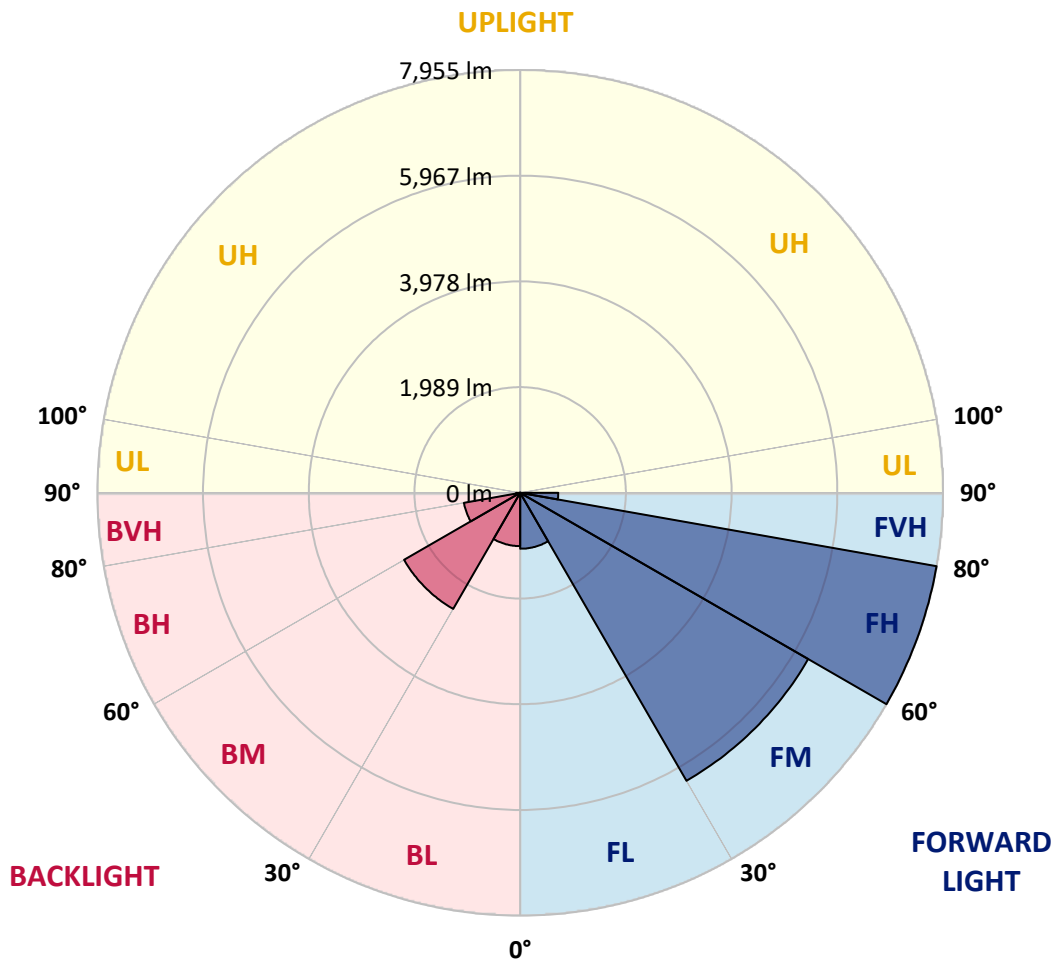
CATALOG NUMBER: VERD-M-CA3-170-727-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1052.5	5.1			
FM	(30°-60°)	6256.8	30.3			
FH	(60°-80°)	7955.4	38.5			G4/12000
FVH	(80°-90°)	717.7	3.5			G4/750
BL	(0°-30°)	1003.6	4.9	B3/2500		
BM	(30°-60°)	2522.3	12.2	B3/5000		
BH	(60°-80°)	1074.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	73.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P509929

CATALOG NUMBER: VERD-M-CA3-170-727-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2205.5	2205.5	2205.5	2205.5	2205.5	2205.5	2205.5	2205.5	2205.5	2205.5	2205.5
2.5°	2178.4	2203.6	2199.9	2195.2	2202.7	2203.6	2182.1	2190.5	2195.2	2202.7	2214.8
5°	2184.0	2209.2	2207.4	2198.9	2204.6	2207.4	2187.7	2202.7	2202.7	2205.5	2219.5
7.5°	2171.8	2196.1	2196.1	2193.3	2205.5	2216.7	2198.9	2212.0	2219.5	2227.0	2236.3
10°	2160.6	2181.2	2188.7	2186.8	2214.8	2217.6	2205.5	2237.3	2249.4	2256.9	2268.1
12.5°	2148.5	2173.7	2184.0	2194.3	2224.2	2234.5	2227.9	2260.7	2285.9	2299.0	2311.1
15°	2142.9	2170.9	2187.7	2202.7	2235.4	2254.1	2254.1	2303.7	2333.6	2350.4	2371.9
17.5°	2182.1	2211.1	2224.2	2236.3	2266.3	2291.5	2289.6	2347.6	2391.5	2417.7	2457.0
20°	2279.4	2313.9	2321.4	2326.1	2344.8	2354.1	2351.3	2414.0	2474.7	2524.3	2568.2
22.5°	2448.6	2469.1	2472.9	2454.2	2458.9	2466.3	2461.7	2496.3	2565.4	2623.4	2701.9
25°	2586.9	2619.7	2610.3	2583.2	2586.9	2597.2	2583.2	2636.5	2686.0	2761.8	2841.2
27.5°	2732.8	2757.1	2746.8	2730.0	2726.2	2718.8	2716.0	2784.2	2857.1	2917.0	3034.8
30°	2910.4	2923.5	2893.6	2886.1	2892.7	2897.3	2879.6	2966.5	3032.9	3118.9	3277.9
32.5°	3209.6	3221.8	3178.7	3063.8	3066.6	3088.1	3073.1	3182.5	3307.8	3412.5	3574.2
35°	3591.1	3591.1	3557.4	3395.7	3273.2	3274.1	3277.9	3432.1	3664.9	3899.6	4066.0
37.5°	3977.2	3990.3	3926.7	3779.0	3623.8	3541.5	3472.3	3670.5	3975.3	4498.9	4746.6
40°	4379.2	4399.8	4304.4	4168.8	3990.3	3896.8	3816.4	3937.0	4348.3	5092.5	5288.9
42.5°	4730.7	4759.7	4661.5	4518.5	4394.2	4288.5	4167.0	4215.6	4758.8	5656.3	5767.6
45°	5058.0	5073.8	4990.6	4872.8	4770.0	4712.0	4626.9	4683.0	5228.1	6207.9	6187.3
47.5°	5299.2	5322.5	5246.8	5183.2	5077.6	5043.0	5042.1	5196.3	5756.3	6647.3	6552.0
50°	5690.9	5673.1	5503.0	5425.4	5360.9	5372.1	5399.2	5665.7	6377.1	7070.8	6858.6
52.5°	6348.1	6315.4	5937.7	5776.0	5696.5	5733.0	5747.0	6091.0	7003.5	7436.4	7112.0
55°	7198.0	7093.3	6818.4	6384.6	6135.0	6169.6	6153.7	6548.2	7504.7	7785.1	7299.9
57.5°	7759.9	7858.1	7726.2	7478.5	6858.6	6745.5	6708.1	7000.7	7968.4	8118.9	7494.4
60°	8247.9	8410.6	8620.0	8461.1	8293.7	7870.2	7521.5	7514.9	8376.9	8341.4	7572.9
62.5°	8763.1	8849.1	9171.6	9269.8	9580.2	9502.6	9035.1	8165.6	8785.5	8504.1	7618.7
65°	8242.3	8357.3	8944.4	9480.2	10629.2	10741.4	10589.0	9375.4	9068.8	8587.3	7553.3
67.5°	7449.5	7513.1	8177.8	9107.1	11104.1	11274.3	11120.9	10562.8	9225.9	8550.8	7351.3
70°	6433.2	6508.0	7142.8	8410.6	11079.8	11102.2	11042.4	10672.2	9163.2	8379.7	6842.7
72.5°	5216.0	5310.4	5868.5	7184.9	10548.8	10646.0	10551.6	10455.3	8987.4	7901.1	5966.7
75°	3946.3	4071.6	4569.9	5728.3	9322.1	9812.1	9824.2	10121.5	8304.9	6773.5	4330.6
77.5°	2691.7	2811.3	3283.5	4364.2	7738.4	8520.9	8724.7	9050.1	6939.0	5005.6	2362.6
80°	1515.5	1504.3	2103.6	3118.0	5902.2	6589.4	6845.5	6832.4	4872.8	2570.1	481.5
82.5°	700.3	702.1	1076.1	1990.5	3995.9	4449.3	4553.1	3963.2	1710.0	435.7	153.3
85°	348.7	352.5	517.9	998.5	2256.0	2606.6	2477.6	1649.2	366.5	127.1	91.6
87.5°	138.4	132.8	204.7	410.4	814.3	862.9	753.6	330.0	66.4	44.9	30.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509929

CATALOG NUMBER: VERD-M-CA3-170-727-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2205.5	2205.5	2205.5	2205.5	2205.5	2205.5	2205.5	2205.5	2205.5	2205.5	2205.5
2.5°	2212.0	2213.9	2222.3	2205.5	2210.2	2206.4	2203.6	2218.6	2217.6	2220.4	2215.8
5°	2218.6	2223.3	2231.7	2224.2	2231.7	2227.9	2230.7	2251.3	2254.1	2253.2	2253.2
7.5°	2236.3	2241.0	2256.9	2247.6	2264.4	2259.7	2260.7	2280.3	2284.0	2278.4	2276.5
10°	2273.7	2277.5	2299.9	2298.0	2304.6	2300.9	2297.1	2305.5	2303.7	2295.2	2291.5
12.5°	2316.7	2327.0	2352.3	2353.2	2361.6	2342.9	2323.3	2320.5	2314.9	2301.8	2299.0
15°	2381.3	2393.4	2431.7	2422.4	2416.8	2376.6	2343.9	2317.7	2295.2	2284.0	2273.7
17.5°	2473.8	2494.4	2547.7	2518.7	2477.6	2418.7	2361.6	2304.6	2256.9	2216.7	2200.8
20°	2591.6	2615.0	2659.9	2621.5	2558.9	2471.0	2378.5	2275.6	2171.8	2083.0	2069.9
22.5°	2731.9	2769.3	2802.0	2714.1	2621.5	2510.3	2378.5	2230.7	2058.7	1925.9	1893.2
25°	2895.5	2924.4	2914.2	2790.8	2657.1	2516.8	2352.3	2151.3	1908.2	1753.9	1727.7
27.5°	3073.1	3086.2	3006.7	2827.2	2660.8	2478.5	2278.4	2010.1	1732.4	1610.9	1585.6
30°	3291.9	3252.6	3101.2	2849.7	2623.4	2393.4	2146.6	1803.5	1589.4	1482.8	1453.8
32.5°	3527.5	3455.5	3168.5	2833.8	2541.1	2251.3	1942.8	1657.6	1494.0	1364.1	1339.7
35°	3976.2	3771.5	3266.6	2786.1	2398.1	2061.5	1745.5	1545.4	1393.0	1253.7	1231.3
37.5°	4582.1	4225.9	3404.1	2719.7	2228.9	1877.3	1598.7	1425.8	1293.9	1150.0	1114.4
40°	5053.3	4684.9	3624.7	2648.6	2072.7	1702.5	1492.1	1363.1	1228.5	1075.2	1044.3
42.5°	5502.0	5104.7	3895.8	2569.2	1911.9	1581.0	1445.4	1349.1	1210.7	1054.6	1025.6
45°	5898.4	5444.1	4129.6	2489.7	1730.5	1468.8	1410.8	1322.0	1185.5	1028.4	1000.4
47.5°	6219.1	5735.8	4332.4	2403.7	1566.0	1383.7	1365.9	1272.4	1136.9	975.1	941.5
50°	6509.0	5982.6	4472.7	2312.1	1405.2	1314.5	1292.1	1181.7	1040.6	897.5	876.0
52.5°	6687.5	6149.9	4556.8	2327.0	1252.8	1236.9	1200.4	1087.3	956.4	834.0	805.9
55°	6874.5	6307.9	4555.9	2242.9	1125.7	1120.0	1085.4	998.5	895.7	792.8	776.0
57.5°	6951.2	6322.0	4470.8	1847.4	1013.5	977.9	970.5	924.6	834.9	737.7	719.0
60°	7002.6	6260.3	4310.0	1261.2	872.3	847.0	883.5	852.7	771.3	669.4	650.7
62.5°	6952.1	6193.0	3888.4	910.6	764.8	778.8	813.4	779.7	694.7	602.1	586.2
65°	6831.5	5935.8	3070.3	709.6	717.1	747.9	775.1	719.0	562.8	471.2	461.9
67.5°	6502.4	5446.9	1975.5	650.7	690.0	721.8	731.1	608.6	509.5	421.7	411.4
70°	5809.6	4372.6	761.0	613.3	662.9	676.9	638.6	558.2	468.4	392.7	383.3
72.5°	4544.7	2871.2	439.4	561.0	604.9	591.8	592.7	501.1	422.6	350.6	343.1
75°	2824.4	1039.6	390.8	499.3	512.3	536.6	505.8	434.7	363.7	320.7	311.3
77.5°	934.0	295.4	361.8	430.1	459.0	441.3	423.5	371.2	311.3	277.7	273.0
80°	226.3	221.6	324.4	336.6	359.9	330.0	328.2	308.5	262.7	243.1	238.4
82.5°	139.3	158.9	258.0	209.4	240.3	243.1	276.7	254.3	191.7	199.1	192.6
85°	86.0	122.5	135.6	101.0	101.9	136.5	165.5	153.3	115.0	108.5	107.5
87.5°	29.0	25.2	29.0	21.5	29.0	49.6	74.8	71.1	47.7	32.7	30.9
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)