

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: P233542

Luminaire Tested: **VERD-C02H8-D-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233542
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-C02H8-D-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 960mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13936 lumens
Efficiency: N/A
Efficacy: 126.7 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): 110
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

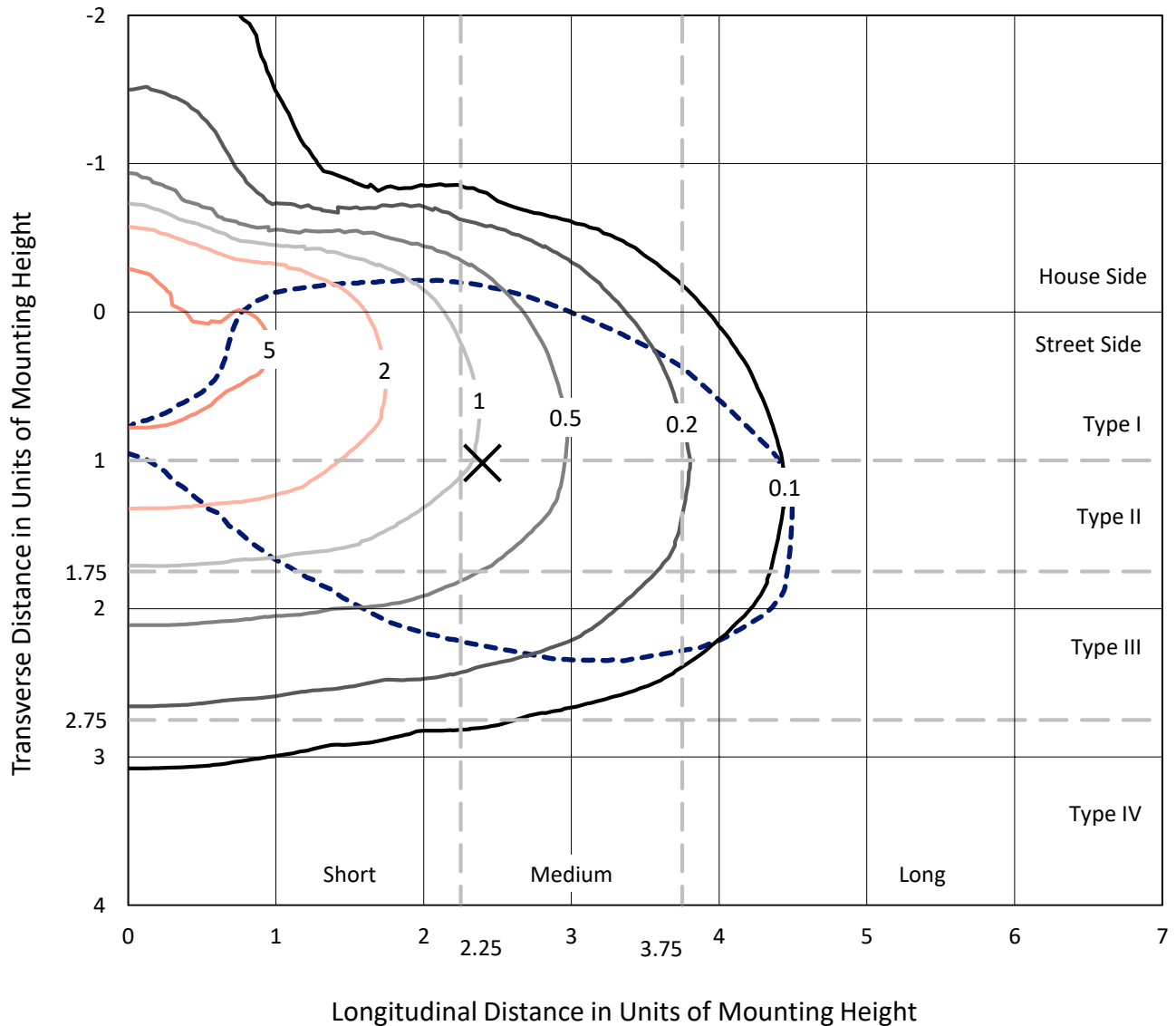


REPORT NUMBER: P233542

CATALOG NUMBER: VERD-C02H8-D-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

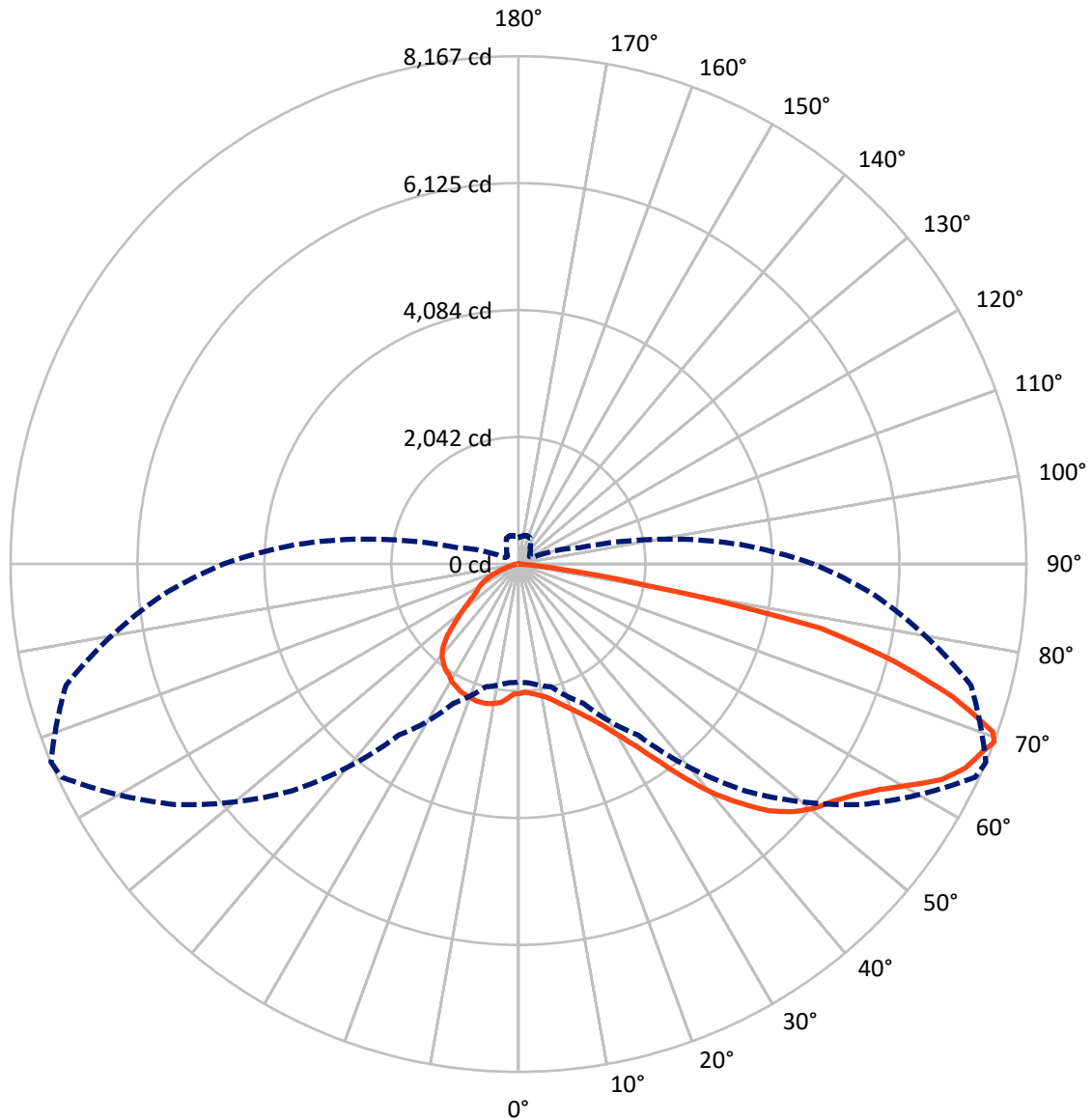


Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P233542

CATALOG NUMBER: VERD-C02H8-D-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P233542

CATALOG NUMBER: VERD-C02H8-D-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3138.2	0.0	3138.2
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	10797.8	0.0	10797.8
	% Fixture	77.5	0.0	77.5
Total	Lumens	13936.0	0.0	13936.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	1.5
10°-20°	672.9	4.8
20°-30°	1159.2	8.3
30°-40°	1724.1	12.4
40°-50°	2374.5	17.0
50°-60°	2838.6	20.4
60°-70°	2995.5	21.5
70°-80°	1795.1	12.9
80°-90°	165.1	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°	13936.0	100.0
0°-180°	13936.0	100.0



REPORT NUMBER: P233542

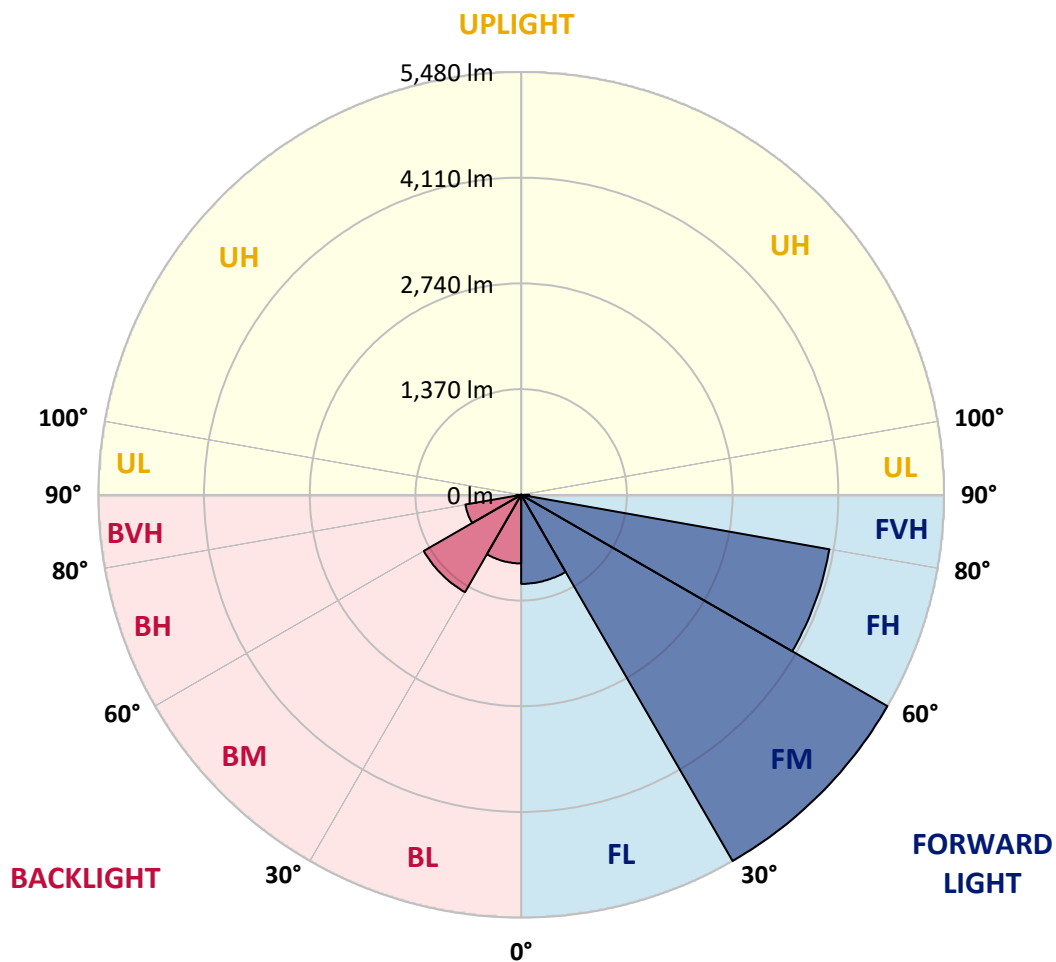
CATALOG NUMBER: VERD-C02H8-D-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.0	8.3			
FM (30°-60°)	5480.3	39.3			
FH (60°-80°)	4056.8	29.1			G2/5000
FVH (80°-90°)	106.8	0.8			G2/225
BL (0°-30°)	889.2	6.4	B2/1000		
BM (30°-60°)	1456.9	10.5	B2/2500		
BH (60°-80°)	733.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	58.3	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





REPORT NUMBER: P233542

CATALOG NUMBER: VERD-C02H8-D-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5
2.5°	2118.8	2117.5	2111.1	2088.3	2085.8	2083.3	2068.1	2069.3	2065.5	2069.3	2070.6
5°	2177.0	2172.0	2165.6	2141.6	2132.7	2121.3	2098.5	2097.2	2088.3	2090.9	2093.4
7.5°	2249.3	2244.2	2239.1	2211.3	2202.4	2182.1	2146.6	2128.9	2121.3	2123.8	2127.6
10°	2346.8	2338.0	2330.4	2289.8	2275.9	2241.7	2198.6	2168.2	2158.0	2161.8	2172.0
12.5°	2458.4	2447.0	2434.3	2392.5	2373.5	2320.2	2269.5	2230.3	2215.1	2223.9	2231.5
15°	2573.7	2567.3	2562.3	2512.9	2486.2	2427.9	2364.6	2315.2	2301.2	2308.8	2312.6
17.5°	2725.7	2721.9	2713.1	2662.4	2611.7	2544.5	2462.2	2410.2	2396.3	2400.1	2391.2
20°	2891.7	2881.6	2876.5	2819.5	2766.3	2673.8	2578.7	2505.2	2501.4	2502.7	2474.8
22.5°	3078.0	3066.6	3056.5	3004.5	2938.6	2830.9	2706.7	2624.4	2626.9	2629.4	2567.3
25°	3268.1	3259.2	3250.4	3200.9	3135.0	3017.2	2867.7	2775.2	2773.9	2775.2	2689.0
27.5°	3467.0	3456.9	3455.6	3415.1	3349.2	3228.8	3056.5	2962.7	2962.7	2957.6	2827.1
30°	3644.5	3654.6	3654.6	3631.8	3569.7	3449.3	3287.1	3193.3	3206.0	3195.9	3029.9
32.5°	3838.3	3835.8	3853.5	3835.8	3785.1	3673.6	3538.0	3478.5	3500.0	3532.9	3366.9
35°	3951.1	3968.9	4013.2	4038.6	4014.5	3923.2	3824.4	3870.0	3899.2	4047.4	3848.5
37.5°	4081.6	4096.8	4157.7	4219.8	4229.9	4180.5	4180.5	4330.0	4387.0	4580.9	4349.0
40°	4171.6	4186.8	4252.7	4324.9	4423.8	4458.0	4546.7	4778.6	4859.7	4990.2	4721.6
42.5°	4118.4	4126.0	4267.9	4444.1	4589.8	4754.5	4895.2	5189.2	5266.5	5357.7	5028.2
45°	4024.6	4038.6	4195.7	4479.5	4730.4	5057.4	5234.8	5575.7	5664.4	5655.5	5263.9
47.5°	3920.7	3942.2	4117.1	4433.9	4850.8	5319.7	5545.3	5900.1	5950.8	5887.4	5427.4
50°	3805.4	3842.1	4028.4	4388.3	4938.3	5549.1	5775.9	6143.4	6170.0	6040.7	5570.6
52.5°	3673.6	3697.7	3904.2	4300.9	4999.1	5701.1	5959.6	6324.6	6336.0	6230.8	5721.4
55°	3491.1	3512.7	3742.0	4184.3	5008.0	5791.1	6077.5	6518.5	6556.5	6453.8	5858.2
57.5°	3294.7	3321.3	3557.0	4015.7	4926.9	5827.8	6219.4	6768.1	6841.6	6694.6	5968.5
60°	3066.6	3100.8	3339.1	3810.5	4767.2	5884.9	6484.2	7131.8	7223.0	6967.0	6073.7
62.5°	2829.7	2848.7	3067.9	3526.6	4518.8	5914.0	6725.0	7547.4	7634.9	7224.3	6123.1
65°	2496.4	2526.8	2721.9	3185.7	4169.1	5788.6	6837.8	7837.6	7901.0	7433.4	6074.9
67.5°	2142.8	2142.8	2308.8	2777.7	3702.7	5456.5	6792.2	7977.0	8053.0	7580.4	5922.9
69°	1898.3	1917.3	2044.0	2471.0	3360.6	5161.3	6742.8	8105.0	8167.1	7533.5	5748.0
70°	1710.7	1727.2	1855.2	2248.0	3105.9	4928.1	6636.3	8048.0	8093.6	7389.0	5564.3
72.5°	1258.3	1272.3	1361.0	1566.3	2335.4	3976.5	5983.7	7276.2	7304.1	6645.2	4909.1
75°	857.9	865.5	932.7	1058.1	1362.2	2780.2	4888.8	6145.9	6228.3	5763.2	4019.5
77.5°	296.5	319.3	359.9	486.6	582.9	1092.3	3313.7	4843.2	4966.1	4463.1	2811.9
80°	101.4	100.1	192.6	249.6	306.7	501.8	1048.0	2030.0	2145.4	1840.0	1012.5
82.5°	76.0	78.6	128.0	138.1	93.8	185.0	408.0	620.9	680.5	594.3	419.4
85°	48.2	46.9	57.0	59.6	43.1	78.6	98.8	100.1	103.9	90.0	91.2
87.5°	26.6	26.6	25.3	21.5	11.4	10.1	8.9	8.9	7.6	7.6	7.6
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: P233542

CATALOG NUMBER: VERD-C02H8-D-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5
2.5°	2064.3	2082.0	2085.8	2090.9	2103.5	2120.0	2142.8	2142.8	2151.7	2178.3	2187.2
5°	2093.4	2115.0	2142.8	2172.0	2206.2	2242.9	2279.7	2292.4	2310.1	2345.6	2353.2
7.5°	2137.8	2161.8	2210.0	2249.3	2278.4	2315.2	2345.6	2350.6	2373.5	2406.4	2412.7
10°	2183.4	2204.9	2253.1	2273.4	2312.6	2353.2	2368.4	2376.0	2395.0	2420.3	2416.5
12.5°	2245.5	2251.8	2286.0	2300.0	2319.0	2344.3	2351.9	2351.9	2363.3	2403.9	2405.1
15°	2306.3	2306.3	2311.4	2303.8	2306.3	2319.0	2320.2	2303.8	2316.4	2336.7	2329.1
17.5°	2370.9	2353.2	2330.4	2297.4	2268.3	2267.0	2240.4	2201.1	2189.7	2218.9	2217.6
20°	2431.8	2401.3	2346.8	2272.1	2231.5	2177.0	2109.9	2087.1	2085.8	2090.9	2087.1
22.5°	2511.6	2449.5	2350.6	2248.0	2136.5	2050.3	1994.6	1917.3	1914.7	1903.3	1885.6
25°	2606.6	2517.9	2367.1	2221.4	2059.2	1947.7	1813.4	1731.0	1684.1	1694.2	1663.8
27.5°	2729.5	2621.8	2373.5	2163.1	1952.7	1763.9	1601.7	1495.3	1454.7	1437.0	1416.7
30°	2898.1	2732.1	2419.1	2113.7	1821.0	1571.3	1372.4	1217.8	1159.5	1174.7	1177.2
32.5°	3168.0	2941.2	2443.2	2016.1	1668.9	1361.0	1102.5	935.2	901.0	944.1	955.5
35°	3638.1	3265.6	2500.2	1957.8	1495.3	1115.1	819.9	751.4	759.1	795.8	798.3
37.5°	4100.6	3676.1	2676.3	1831.1	1287.5	826.2	636.1	599.4	636.1	683.0	689.4
40°	4425.1	3996.7	2832.2	1705.6	996.0	598.1	485.3	441.0	494.2	569.0	582.9
42.5°	4712.7	4251.4	2942.4	1532.0	681.8	427.0	348.5	359.9	438.5	492.9	505.6
45°	4919.3	4426.3	3018.5	1306.5	434.6	323.1	311.7	348.5	423.2	466.3	470.1
47.5°	5049.8	4529.0	2962.7	1029.0	326.9	305.4	306.7	353.5	428.3	476.5	475.2
50°	5167.6	4583.5	2781.5	816.1	310.5	292.7	313.0	367.5	444.8	489.1	486.6
52.5°	5293.1	4636.7	2561.0	639.9	297.8	286.4	320.6	376.4	444.8	472.7	468.9
55°	5400.8	4683.6	2395.0	514.5	288.9	285.1	328.2	390.3	442.3	453.7	446.1
57.5°	5456.5	4603.7	2215.1	432.1	280.1	285.1	333.3	387.8	457.5	494.2	486.6
60°	5426.1	4529.0	2069.3	401.7	267.4	283.9	335.8	415.6	561.4	595.6	593.0
62.5°	5370.4	4446.6	1865.3	361.2	253.4	286.4	334.5	441.0	646.3	634.9	603.2
65°	5256.3	4281.9	1586.5	314.3	239.5	291.5	334.5	496.7	563.9	551.2	537.3
67.5°	5013.0	3925.8	1269.7	269.9	224.3	276.2	329.5	472.7	485.3	452.4	435.9
69°	4740.6	3586.2	1004.9	245.8	215.4	268.6	328.2	456.2	477.7	442.3	423.2
70°	4527.7	3321.3	812.3	228.1	206.6	266.1	326.9	444.8	473.9	434.6	414.4
72.5°	3771.2	2683.9	425.8	183.7	176.1	242.0	315.5	434.6	475.2	416.9	387.8
75°	2962.7	1909.7	282.6	140.7	135.6	211.6	288.9	418.2	447.3	375.1	330.7
77.5°	1827.3	836.3	195.1	97.6	98.8	164.7	248.4	373.8	451.1	378.9	321.9
80°	531.0	323.1	124.2	65.9	60.8	97.6	195.1	321.9	428.3	389.0	351.0
82.5°	306.7	210.4	83.6	41.8	36.7	44.4	122.9	249.6	377.6	356.1	363.7
85°	69.7	58.3	30.4	20.3	20.3	25.3	41.8	144.5	261.0	305.4	344.7
87.5°	7.6	7.6	7.6	7.6	7.6	6.3	7.6	39.3	114.0	162.2	188.8
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)