

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: P509225

Luminaire Tested: **VERD-CA2-130-740-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509225
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-CA2-130-740-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1180mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18352 lumens
Efficiency: N/A
Efficacy: 139.2 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

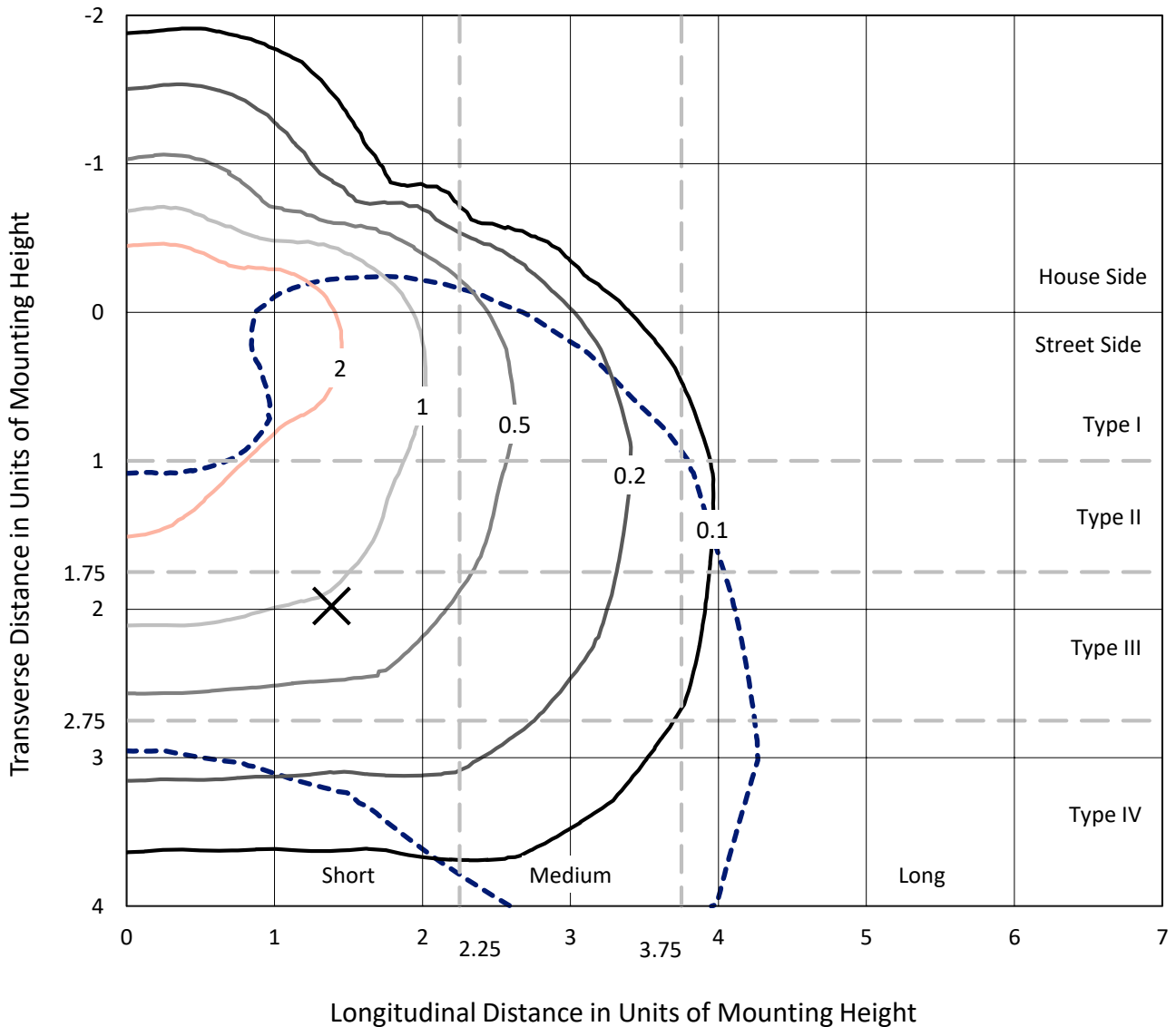
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509225
 CATALOG NUMBER: VERD-CA2-130-740-U-T4

Iso-Footcandle Lines of Horizontal Illumination

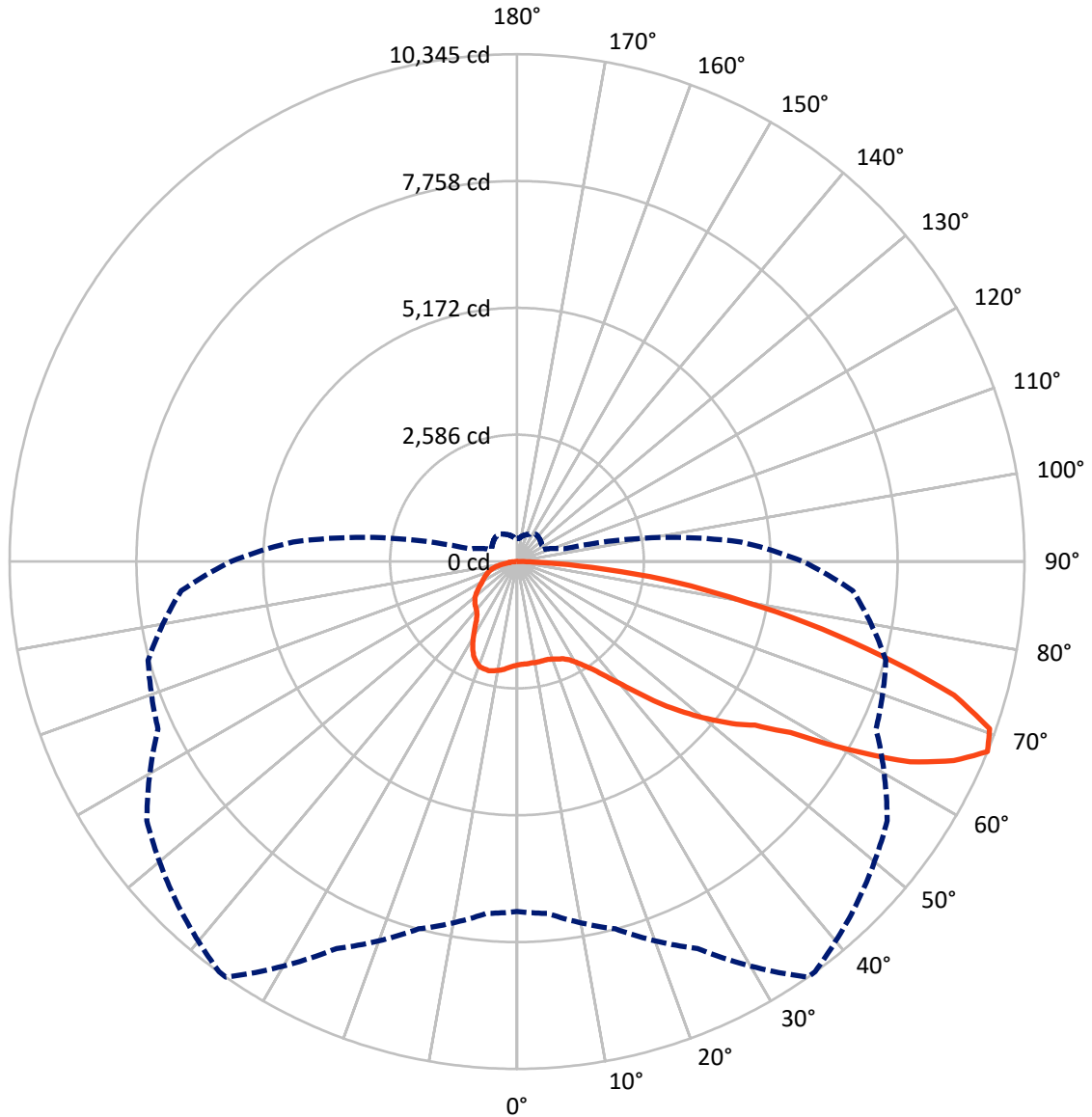
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P509225
CATALOG NUMBER: VERD-CA2-130-740-U-T4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509225

CATALOG NUMBER: VERD-CA2-130-740-U-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4181.0	0.0	4181.0
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	14171.0	0.0	14171.0
	% Fixture	77.2	0.0	77.2
Total	Lumens	18352.0	0.0	18352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	1.1
10°-20°	626.0	3.4
20°-30°	1044.8	5.7
30°-40°	1607.5	8.8
40°-50°	2649.1	14.4
50°-60°	3783.8	20.6
60°-70°	4711.0	25.7
70°-80°	3179.2	17.3
80°-90°	546.5	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°	18352.0	100.0
0°-180°	18352.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509225

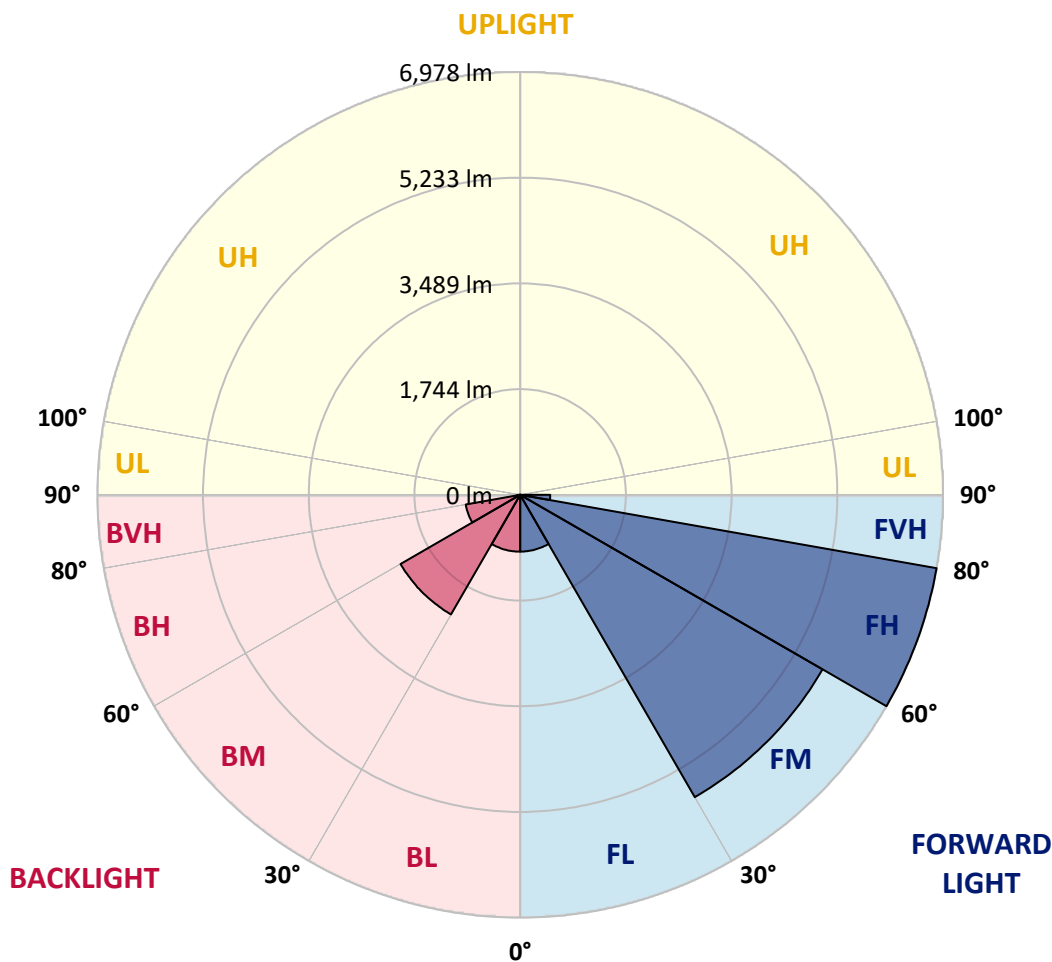
CATALOG NUMBER: VERD-CA2-130-740-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	936.5	5.1			
FM	(30°-60°)	5760.9	31.4			
FH	(60°-80°)	6977.5	38.0			G3/7500
FVH	(80°-90°)	496.1	2.7			G3/500
BL	(0°-30°)	938.4	5.1	B2/1000		
BM	(30°-60°)	2279.5	12.4	B2/2500		
BH	(60°-80°)	912.7	5.0	B2/1000		G2/1000
BVH	(80°-90°)	50.4	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





REPORT NUMBER: P509225

CATALOG NUMBER: VERD-CA2-130-740-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9
2.5°	2079.2	2099.0	2097.0	2093.1	2095.0	2097.0	2087.1	2081.2	2089.1	2091.1	2101.0
5°	2077.2	2093.1	2091.1	2091.1	2097.0	2095.0	2079.2	2067.3	2081.2	2091.1	2101.0
7.5°	2075.2	2089.1	2089.1	2083.2	2087.1	2087.1	2079.2	2087.1	2087.1	2102.9	2114.8
10°	2073.3	2085.1	2085.1	2087.1	2093.1	2095.0	2095.0	2101.0	2122.7	2128.7	2152.4
12.5°	2049.5	2059.4	2067.3	2079.2	2091.1	2095.0	2104.9	2122.7	2150.4	2164.3	2192.0
15°	2029.7	2043.6	2057.4	2069.3	2087.1	2091.1	2112.8	2142.5	2172.2	2201.9	2243.4
17.5°	2037.7	2055.5	2071.3	2081.2	2095.0	2099.0	2120.7	2160.3	2207.8	2251.3	2308.7
20°	2055.5	2075.2	2091.1	2102.9	2120.7	2124.7	2142.5	2180.1	2241.4	2308.7	2374.0
22.5°	2099.0	2112.8	2130.6	2136.6	2156.4	2160.3	2172.2	2209.8	2288.9	2374.0	2457.1
25°	2138.6	2154.4	2168.2	2174.2	2195.9	2199.9	2221.6	2253.3	2346.3	2443.2	2563.9
27.5°	2190.0	2205.8	2223.6	2229.6	2267.1	2271.1	2281.0	2328.5	2421.5	2534.2	2684.6
30°	2288.9	2298.8	2318.6	2342.3	2379.9	2383.9	2405.6	2455.1	2522.3	2660.8	2860.6
32.5°	2439.3	2453.1	2445.2	2476.8	2532.2	2532.2	2607.4	2690.5	2773.6	2870.5	3135.6
35°	2728.1	2720.2	2712.3	2684.6	2718.2	2730.1	2834.9	2975.4	3206.8	3479.8	3741.0
37.5°	3086.2	3084.2	3042.6	2979.3	2977.4	2981.3	3076.3	3313.7	3681.6	4289.0	4569.9
40°	3636.1	3652.0	3505.6	3375.0	3301.8	3286.0	3361.2	3659.9	4154.5	4963.6	5155.5
42.5°	4186.1	4152.5	4033.8	3822.1	3699.4	3689.6	3703.4	3964.5	4613.4	5509.6	5578.8
45°	4672.8	4698.5	4512.5	4383.9	4158.4	4162.4	4101.0	4340.4	5068.4	5895.4	5907.2
47.5°	5169.3	5189.1	4957.6	4811.3	4595.6	4595.6	4498.7	4688.6	5474.0	6263.3	6239.6
50°	5699.5	5745.0	5454.2	5232.6	5034.8	5026.9	4997.2	5115.9	5873.6	6573.9	6479.0
52.5°	6415.7	6259.4	5984.4	5683.7	5487.8	5464.1	5436.4	5521.5	6332.6	6827.2	6633.3
55°	7155.6	6943.9	6663.0	6259.4	5889.4	5923.1	5853.8	5950.8	6754.0	7129.8	6835.1
57.5°	7604.6	7683.8	7531.4	7185.2	6575.9	6570.0	6308.8	6360.3	7131.8	7385.0	7048.7
60°	8077.4	8188.2	8291.1	8085.4	7796.5	7666.0	6995.3	6795.5	7557.1	7571.0	7025.0
62.5°	8324.7	8303.0	8750.1	8773.8	8997.4	9013.2	8358.4	7359.3	7808.4	7727.3	7108.1
65°	7883.6	7895.4	8631.4	9015.2	9784.7	9830.2	9590.9	8350.5	8020.1	7800.5	7013.1
67.5°	7135.8	7203.0	7755.0	8704.6	10344.6	10336.7	9818.4	9213.0	8075.5	7784.7	6874.6
70°	5836.0	5907.2	6473.0	7851.9	10221.9	10156.7	9721.4	9282.2	8028.0	7642.2	6184.2
72.5°	4476.9	4467.0	5052.6	6271.2	9319.8	9383.1	9224.9	8793.6	7800.5	7032.9	5066.5
75°	3155.4	3105.9	3626.2	4753.9	7685.7	7919.2	8459.3	8340.6	6939.9	5788.5	3386.9
77.5°	2071.3	2146.5	2561.9	3515.5	6043.7	6239.6	6985.4	6750.0	5135.7	3693.5	1222.6
80°	1315.6	1382.8	1719.2	2510.5	4393.8	4482.9	5092.2	4292.9	2743.9	1218.6	170.1
82.5°	799.2	809.1	1107.9	1697.4	3030.8	3030.8	3206.8	2399.7	1074.2	158.3	110.8
85°	425.3	449.1	597.5	916.0	1527.3	1642.0	1454.1	916.0	207.7	87.0	67.3
87.5°	134.5	136.5	195.9	354.1	328.4	338.3	112.8	47.5	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



REPORT NUMBER: P509225
 CATALOG NUMBER: VERD-CA2-130-740-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9
2.5°	2104.9	2106.9	2118.8	2124.7	2126.7	2120.7	2134.6	2154.4	2148.4	2170.2	2162.3
5°	2104.9	2114.8	2130.6	2128.7	2144.5	2152.4	2168.2	2188.0	2182.1	2213.7	2201.9
7.5°	2120.7	2136.6	2148.4	2172.2	2184.1	2180.1	2215.7	2231.5	2223.6	2247.4	2235.5
10°	2160.3	2178.1	2193.9	2219.7	2237.5	2229.6	2249.3	2259.2	2245.4	2269.1	2263.2
12.5°	2205.8	2225.6	2257.3	2275.1	2288.9	2275.1	2275.1	2269.1	2249.3	2271.1	2257.3
15°	2257.3	2283.0	2326.5	2346.3	2342.3	2318.6	2296.8	2255.3	2201.9	2211.8	2192.0
17.5°	2326.5	2358.1	2407.6	2419.5	2403.6	2346.3	2288.9	2213.7	2118.8	2095.0	2079.2
20°	2401.7	2437.3	2506.5	2500.6	2465.0	2364.1	2273.1	2156.4	2008.0	1940.7	1909.1
22.5°	2504.5	2540.2	2605.4	2569.8	2496.6	2364.1	2209.8	2047.6	1871.5	1772.6	1750.8
25°	2617.3	2666.8	2694.5	2615.3	2488.7	2310.7	2124.7	1911.0	1685.5	1578.7	1556.9
27.5°	2755.8	2789.4	2761.7	2621.3	2449.1	2221.6	1986.2	1729.0	1513.4	1422.4	1390.8
30°	2918.0	2922.0	2813.2	2609.4	2360.1	2095.0	1816.1	1545.1	1378.9	1293.8	1274.0
32.5°	3133.6	3094.1	2858.7	2554.0	2239.4	1920.9	1626.2	1422.4	1283.9	1177.1	1149.4
35°	3695.5	3515.5	2959.6	2490.7	2093.1	1727.1	1462.0	1311.6	1194.9	1074.2	1052.5
37.5°	4423.5	4105.0	3137.6	2425.4	1926.9	1549.0	1353.2	1246.3	1147.4	1012.9	983.2
40°	4969.5	4601.6	3412.6	2354.2	1774.5	1422.4	1293.8	1220.6	1111.8	989.2	957.5
42.5°	5386.9	5015.0	3695.5	2275.1	1632.1	1323.5	1252.3	1202.8	1098.0	983.2	957.5
45°	5675.8	5303.9	3938.8	2182.1	1450.1	1238.4	1220.6	1173.1	1072.2	961.5	935.7
47.5°	5968.6	5507.6	4075.3	2085.1	1297.8	1190.9	1175.1	1121.7	1028.7	923.9	904.1
50°	6223.8	5739.1	4192.0	1986.2	1177.1	1133.6	1123.7	1052.5	963.4	864.5	838.8
52.5°	6297.0	5794.5	4144.6	1980.3	1068.3	1072.2	1052.5	995.1	912.0	805.2	779.5
55°	6463.1	5948.8	4029.8	1798.3	963.4	977.3	973.3	943.7	866.5	767.6	747.8
57.5°	6534.4	5832.1	3863.6	1337.3	854.6	866.5	900.1	900.1	832.9	743.8	726.0
60°	6524.5	5836.0	3566.9	935.7	747.8	779.5	826.9	826.9	773.5	686.5	664.7
62.5°	6449.3	5685.7	3074.3	714.2	680.5	726.0	781.4	745.8	698.3	601.4	585.6
65°	6324.7	5272.2	2130.6	627.1	643.0	696.4	724.1	680.5	623.2	536.1	526.2
67.5°	5826.1	4579.8	991.1	573.7	611.3	652.8	676.6	615.3	555.9	476.8	464.9
70°	4959.6	3351.3	427.3	532.2	573.7	603.4	627.1	563.8	500.5	431.3	427.3
72.5°	3606.5	1788.4	356.1	466.9	510.4	542.1	571.7	508.4	447.1	366.0	366.0
75°	1737.0	296.7	306.6	387.7	427.3	490.6	504.5	415.4	346.2	278.9	273.0
77.5°	213.7	191.9	265.1	308.6	342.2	375.9	409.5	360.1	298.7	229.5	217.6
80°	134.5	134.5	209.7	215.6	233.4	269.1	300.7	280.9	235.4	132.5	122.7
82.5°	98.9	106.8	138.5	102.9	122.7	154.3	176.1	199.8	170.1	93.0	87.0
85°	63.3	69.2	65.3	51.4	67.3	102.9	140.5	138.5	114.7	69.2	65.3
87.5°	13.8	13.8	13.8	11.9	13.8	17.8	33.6	65.3	47.5	37.6	35.6
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)