

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: P509221

Luminaire Tested: **VERD-CA2-130-740-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
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-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1180mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18142 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

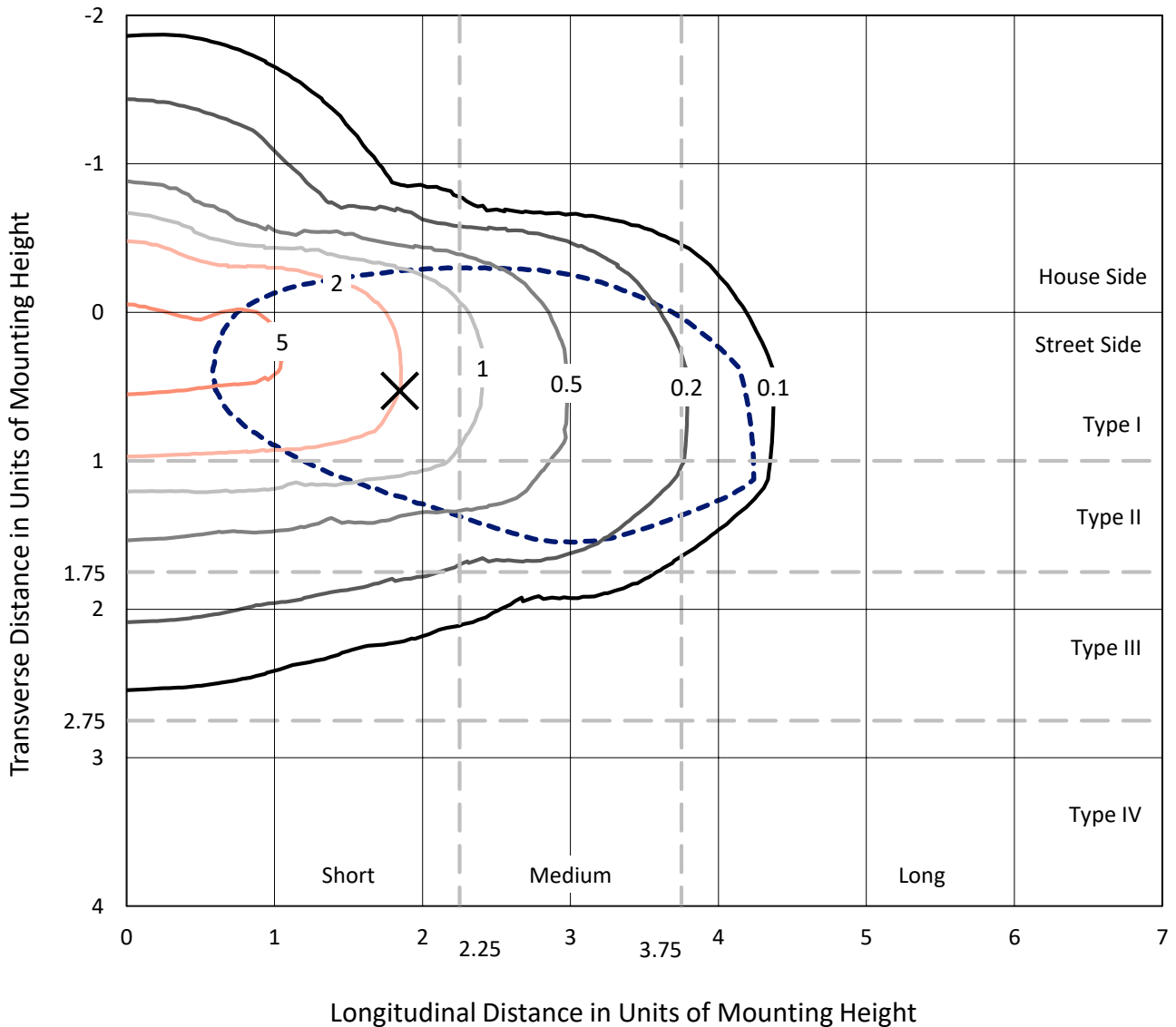
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509221
 CATALOG NUMBER: VERD-CA2-130-740-U-T2

Iso-Footcandle Lines of Horizontal Illumination

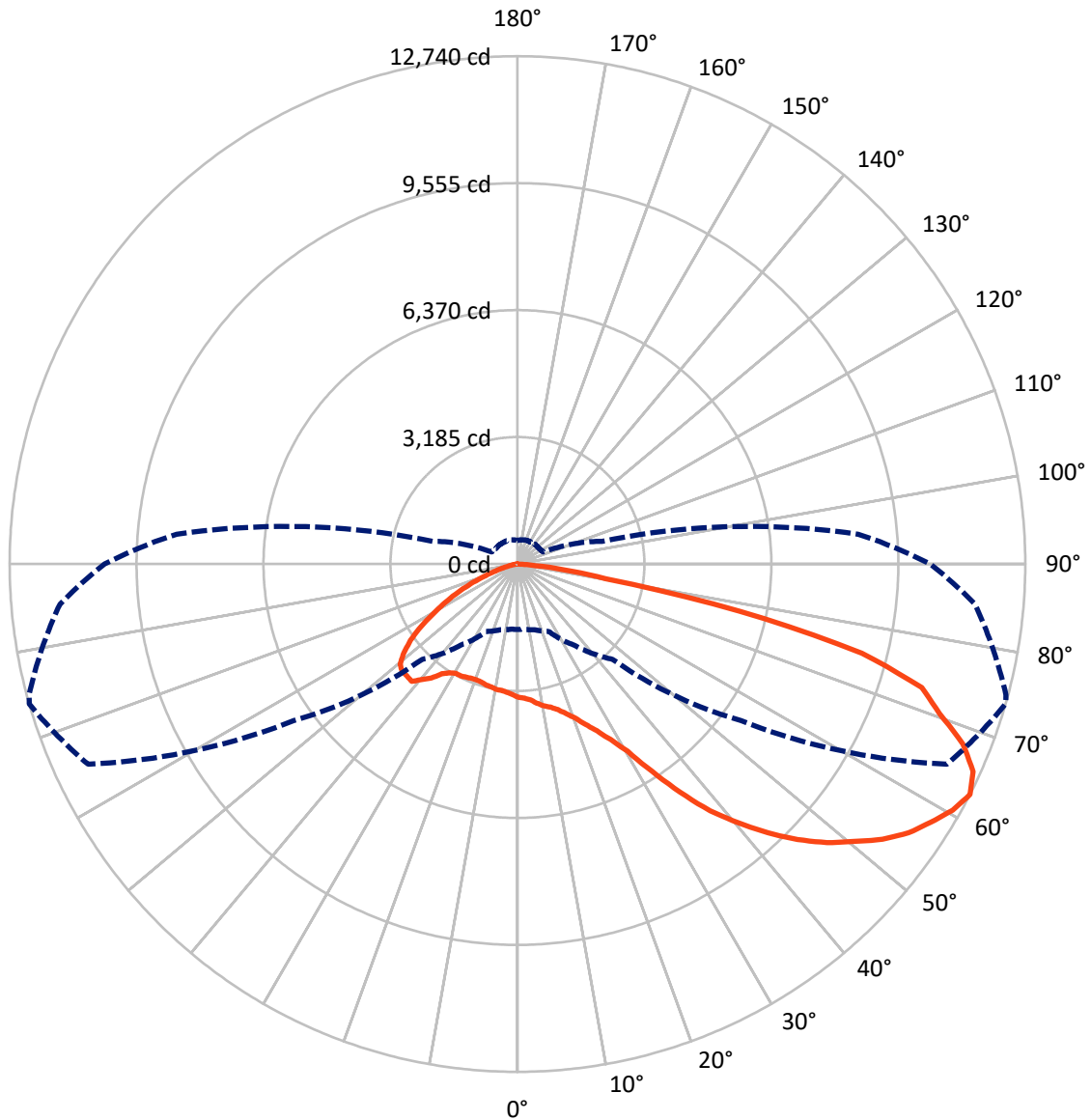
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

REPORT NUMBER: P509221
CATALOG NUMBER: VERD-CA2-130-740-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P509221

CATALOG NUMBER: VERD-CA2-130-740-U-T2

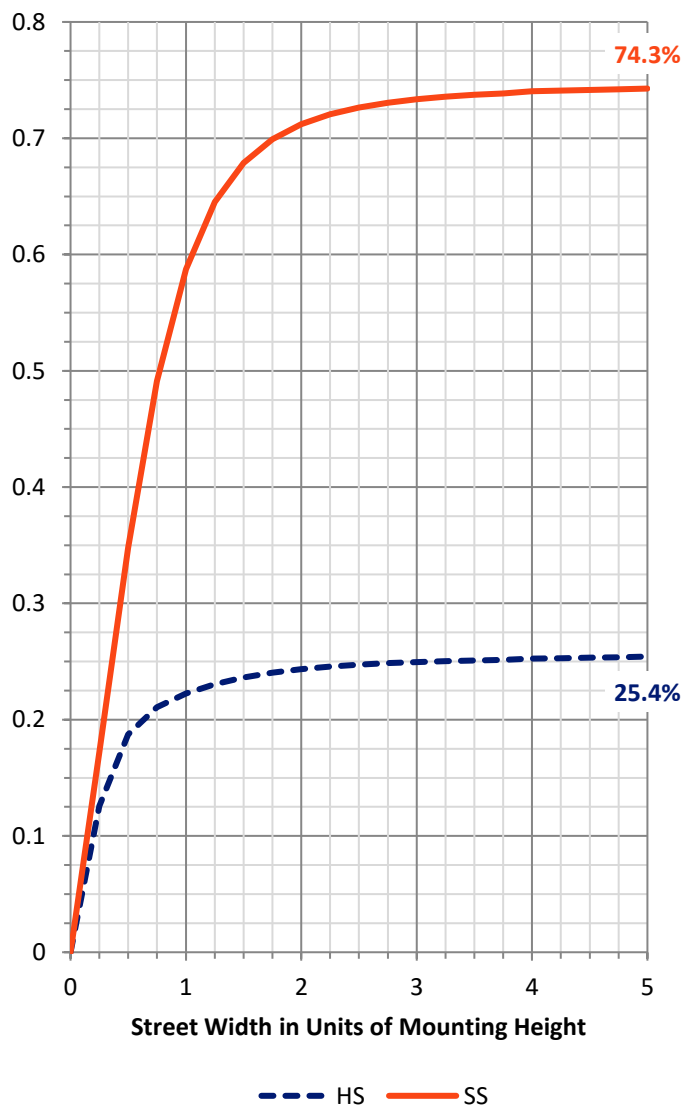
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4684.4	0.0	4684.4
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	13457.6	0.0	13457.6
	% Fixture	74.2	0.0	74.2
Total	Lumens	18142.0	0.0	18142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	1.8
10°-20°	980.0	5.4
20°-30°	1652.6	9.1
30°-40°	2414.5	13.3
40°-50°	3214.9	17.7
50°-60°	3699.8	20.4
60°-70°	3575.3	19.7
70°-80°	2058.2	11.3
80°-90°	225.2	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°	18142.0	100.0
0°-180°	18142.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509221

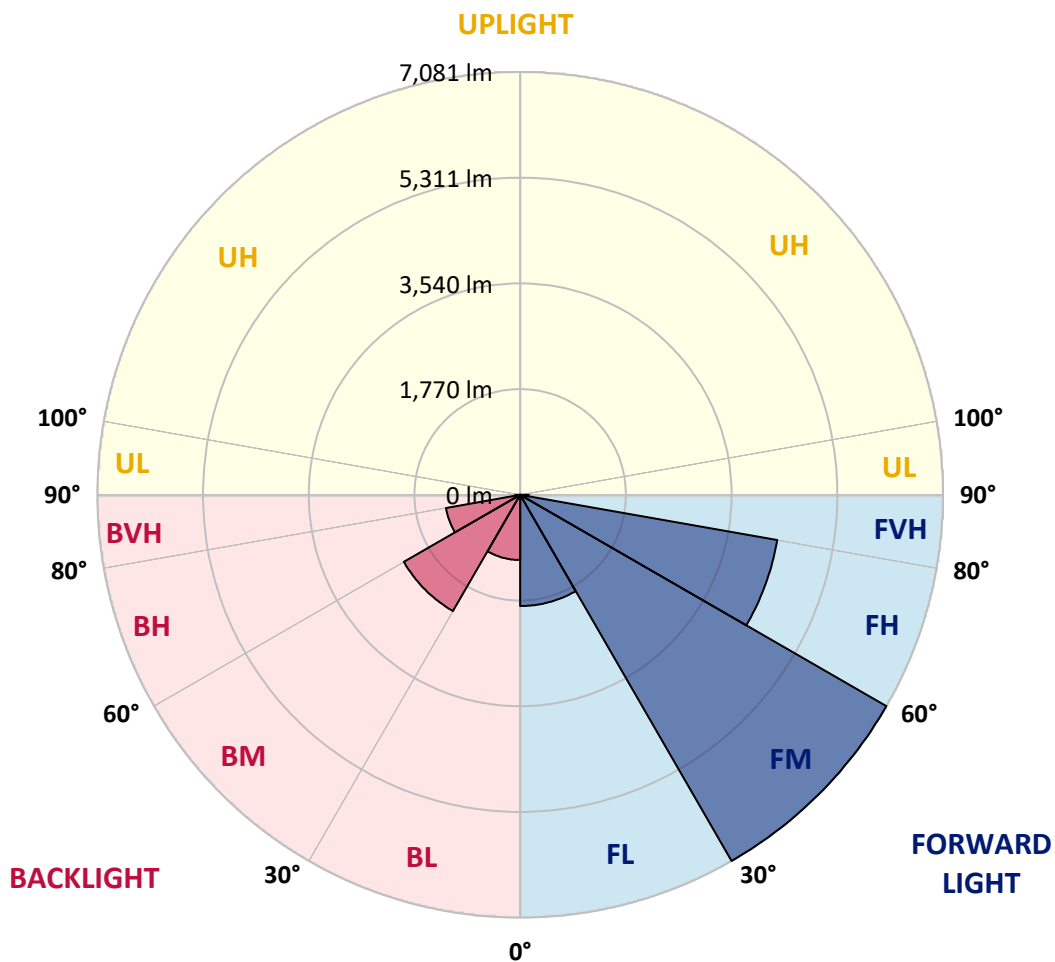
CATALOG NUMBER: VERD-CA2-130-740-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1862.0	10.3			
FM (30°-60°)	7080.8	39.0			
FH (60°-80°)	4372.4	24.1			G2/5000
FVH (80°-90°)	142.4	0.8			G2/225
BL (0°-30°)	1092.1	6.0	B3/2500		
BM (30°-60°)	2248.4	12.4	B2/2500		
BH (60°-80°)	1261.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	82.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P509221

CATALOG NUMBER: VERD-CA2-130-740-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3
2.5°	3580.7	3555.0	3539.2	3521.4	3499.6	3491.7	3444.2	3402.7	3369.0	3371.0	3349.2
5°	3711.3	3683.6	3648.0	3642.0	3614.3	3608.4	3562.9	3497.6	3424.4	3414.5	3349.2
7.5°	3857.7	3841.8	3820.1	3792.4	3746.9	3717.2	3651.9	3600.5	3525.3	3515.4	3386.8
10°	4035.7	4023.8	4008.0	4008.0	3948.7	3885.4	3806.2	3677.6	3618.3	3608.4	3452.1
12.5°	4245.4	4209.8	4158.4	4128.7	4073.3	4033.7	3948.7	3812.2	3683.6	3679.6	3513.4
15°	4381.9	4352.2	4318.6	4306.7	4235.5	4170.2	4079.2	3970.4	3790.4	3776.6	3588.6
17.5°	4534.2	4506.5	4467.0	4445.2	4399.7	4324.5	4243.4	4101.0	3940.8	3926.9	3673.7
20°	4619.3	4589.6	4577.8	4581.7	4565.9	4528.3	4431.4	4302.8	4118.8	4101.0	3790.4
22.5°	4714.3	4694.5	4698.4	4728.1	4757.8	4743.9	4668.8	4526.3	4368.1	4340.4	3978.3
25°	4716.2	4700.4	4753.8	4868.6	4931.9	4963.5	4924.0	4807.2	4639.1	4613.4	4217.7
27.5°	4749.9	4726.1	4783.5	4904.2	5096.1	5161.4	5175.2	5131.7	4987.3	4955.6	4504.6
30°	4662.8	4647.0	4734.0	4943.7	5169.3	5386.9	5466.0	5533.3	5452.2	5454.1	4947.7
32.5°	4512.5	4484.8	4617.3	4874.5	5293.9	5590.6	5800.3	6071.4	6196.0	6184.1	5719.2
35°	4225.6	4241.5	4419.5	4813.2	5297.9	5798.4	6209.9	6694.5	7032.8	7024.9	6518.5
37.5°	4021.9	4014.0	4223.7	4641.1	5295.9	5982.4	6607.5	7414.6	7851.8	7840.0	7204.9
40°	3776.6	3778.5	3988.2	4427.4	5202.9	6097.1	7019.0	8097.1	8542.3	8524.5	7861.7
42.5°	3513.4	3521.4	3717.2	4166.3	5074.3	6184.1	7386.9	8787.6	9218.8	9234.7	8388.0
45°	3278.0	3282.0	3475.9	3887.3	4846.8	6194.0	7717.3	9440.4	9859.8	9822.2	8939.9
47.5°	2931.8	2935.8	3222.6	3622.3	4546.1	6112.9	7990.3	10061.6	10445.4	10366.2	9406.8
50°	2296.8	2304.7	2645.0	3347.3	4180.1	5927.0	8206.0	10645.2	10941.9	10908.3	9885.5
52.5°	2120.7	2114.8	2257.2	3018.9	3851.7	5590.6	8342.5	11169.4	11470.1	11466.2	10281.2
55°	2031.7	2025.8	2073.2	2447.1	3529.3	5092.1	8338.5	11577.0	11907.3	11826.2	10643.2
57.5°	1873.4	1861.6	1984.2	2168.2	3169.2	4470.9	8140.7	11942.9	12223.9	12200.1	10969.6
60°	1760.7	1750.8	1833.9	2004.0	2785.4	3839.9	7632.2	12132.9	12542.4	12552.3	11244.6
62.5°	1644.0	1638.0	1709.2	1867.5	2484.7	3378.9	6848.8	11883.6	12740.2	12686.8	11519.6
65°	1511.4	1507.5	1574.7	1703.3	2186.0	3028.8	6081.3	11438.5	12562.1	12623.5	11555.2
67.5°	1353.2	1351.2	1416.5	1505.5	1859.6	2676.6	4906.2	10914.2	12053.7	11986.5	11098.2
70°	1159.3	1151.4	1232.5	1315.6	1556.9	2277.0	3818.1	9982.5	11226.8	11470.1	10188.2
72.5°	975.3	971.3	1048.5	1109.8	1289.8	1859.6	2785.4	8633.3	10607.6	10257.4	9179.3
75°	763.6	743.8	824.9	882.3	1016.8	1479.8	1899.2	5766.7	8928.0	8854.8	7711.4
77.5°	308.6	358.1	427.3	478.7	567.8	838.8	993.1	2736.0	5695.5	5946.7	5363.1
80°	118.7	126.6	304.7	344.2	381.8	482.7	381.8	1153.3	2247.3	2451.1	3105.9
82.5°	67.3	75.2	150.4	144.4	142.4	122.7	142.4	565.8	1173.1	1285.9	1499.5
85°	37.6	41.5	61.3	67.3	57.4	49.5	43.5	148.4	292.8	277.0	310.6
87.5°	5.9	7.9	9.9	9.9	5.9	5.9	5.9	7.9	7.9	7.9	9.9
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: P509221
 CATALOG NUMBER: VERD-CA2-130-740-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3
2.5°	3327.5	3305.7	3284.0	3258.2	3226.6	3206.8	3198.9	3208.8	3236.5	3202.9	3175.2
5°	3315.6	3285.9	3236.5	3187.0	3147.5	3113.8	3068.3	3064.4	3072.3	3058.4	3022.8
7.5°	3341.3	3297.8	3196.9	3163.3	3080.2	3001.1	2975.3	2965.5	2941.7	2914.0	2880.4
10°	3392.8	3303.7	3200.9	3102.0	3024.8	2939.7	2840.8	2842.8	2832.9	2801.3	2769.6
12.5°	3418.5	3313.6	3163.3	3058.4	2939.7	2834.9	2738.0	2694.4	2712.2	2686.5	2652.9
15°	3466.0	3355.2	3149.4	2995.1	2832.9	2714.2	2641.0	2577.7	2538.1	2544.1	2524.3
17.5°	3555.0	3392.8	3113.8	2925.9	2749.8	2609.4	2468.9	2463.0	2403.6	2370.0	2340.3
20°	3648.0	3460.0	3109.9	2850.7	2615.3	2441.2	2328.4	2265.1	2229.5	2201.8	2180.1
22.5°	3768.6	3553.0	3123.7	2807.2	2494.6	2298.8	2154.4	2069.3	2011.9	1992.1	1976.3
25°	3938.8	3669.7	3161.3	2730.0	2368.0	2142.5	1946.6	1857.6	1792.3	1776.5	1764.6
27.5°	4172.2	3818.1	3198.9	2647.0	2219.6	1922.9	1715.2	1628.1	1554.9	1553.0	1531.2
30°	4540.2	4045.6	3212.7	2573.8	2061.4	1687.5	1479.8	1398.7	1343.3	1321.5	1337.3
32.5°	5226.6	4548.1	3299.8	2461.0	1861.6	1458.0	1281.9	1216.6	1155.3	1131.6	1147.4
35°	5968.5	5149.5	3446.2	2383.8	1642.0	1240.4	1119.7	1042.6	967.4	955.5	949.6
37.5°	6512.5	5697.5	3723.1	2257.2	1434.3	1107.8	949.6	886.3	842.8	819.0	840.8
40°	7129.8	6152.5	3932.8	2122.7	1222.6	967.4	791.3	771.5	751.8	735.9	759.7
42.5°	7618.4	6621.3	4182.1	1944.7	1052.5	821.0	704.3	720.1	730.0	722.1	724.1
45°	8067.5	6969.5	4197.9	1673.6	898.1	712.2	678.6	710.2	733.9	730.0	728.0
47.5°	8506.7	7385.0	4235.5	1386.8	787.4	684.5	680.5	704.3	735.9	741.9	741.9
50°	8959.7	7701.5	4178.2	1115.8	745.8	688.4	686.5	684.5	724.1	726.0	732.0
52.5°	9299.9	7958.7	3907.1	921.9	743.8	700.3	696.4	676.6	694.4	708.2	698.3
55°	9660.0	8279.1	3564.9	848.7	739.9	704.3	720.1	686.5	674.6	662.7	674.6
57.5°	10002.2	8502.7	3115.8	805.2	724.1	698.3	730.0	684.5	658.8	625.1	613.3
60°	10265.4	8554.1	2615.3	759.7	704.3	684.5	686.5	670.6	637.0	595.5	577.7
62.5°	10354.4	8583.8	2199.9	716.1	664.7	662.7	646.9	641.0	627.1	601.4	593.5
65°	10279.2	8247.5	1756.7	662.7	631.1	633.1	609.3	589.5	557.9	516.3	512.4
67.5°	9762.9	7656.0	1347.2	595.5	579.6	599.4	573.7	540.1	504.5	476.8	480.7
70°	8878.6	6955.7	945.6	502.5	520.3	555.9	546.0	502.5	462.9	439.2	443.1
72.5°	7895.4	5893.3	642.9	391.7	423.4	498.5	498.5	468.9	429.3	397.6	389.7
75°	6227.7	4629.2	415.4	259.2	278.9	407.5	441.2	395.7	352.1	332.4	324.4
77.5°	4227.6	3014.9	265.1	148.4	186.0	267.1	348.2	354.1	417.4	419.4	401.6
80°	2484.7	1725.1	162.2	87.0	93.0	154.3	278.9	350.2	443.1	312.6	286.9
82.5°	1236.4	735.9	73.2	53.4	55.4	77.2	150.4	401.6	342.2	195.9	187.9
85°	275.0	120.7	29.7	27.7	31.7	39.6	77.2	332.4	209.7	158.3	154.3
87.5°	9.9	7.9	7.9	7.9	5.9	5.9	15.8	108.8	83.1	69.2	65.3
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)