

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: P509564

Luminaire Tested: **VERD-G-CA2-120-750-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-120-750-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16571 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

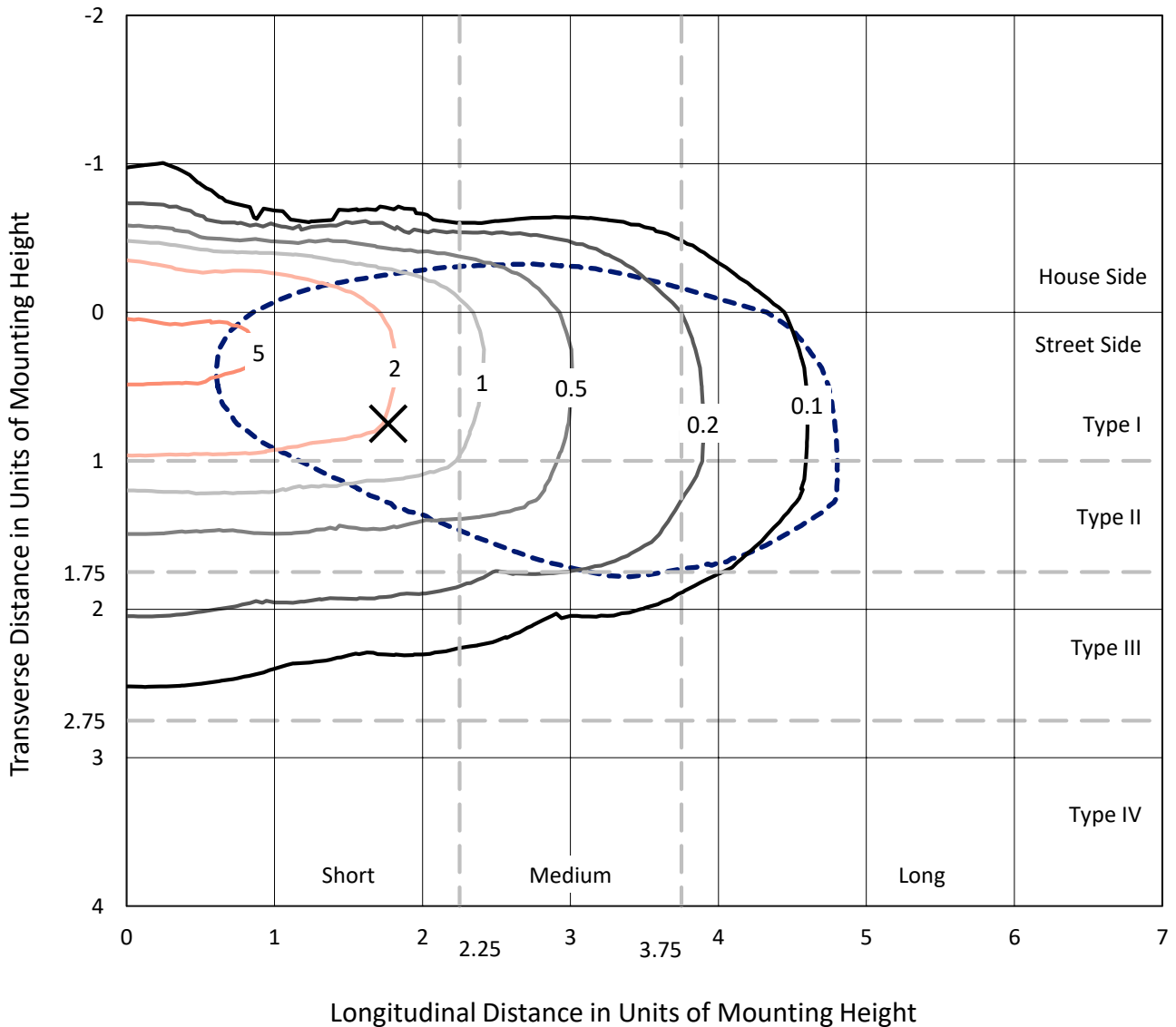
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509564
 CATALOG NUMBER: VERD-G-CA2-120-750-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

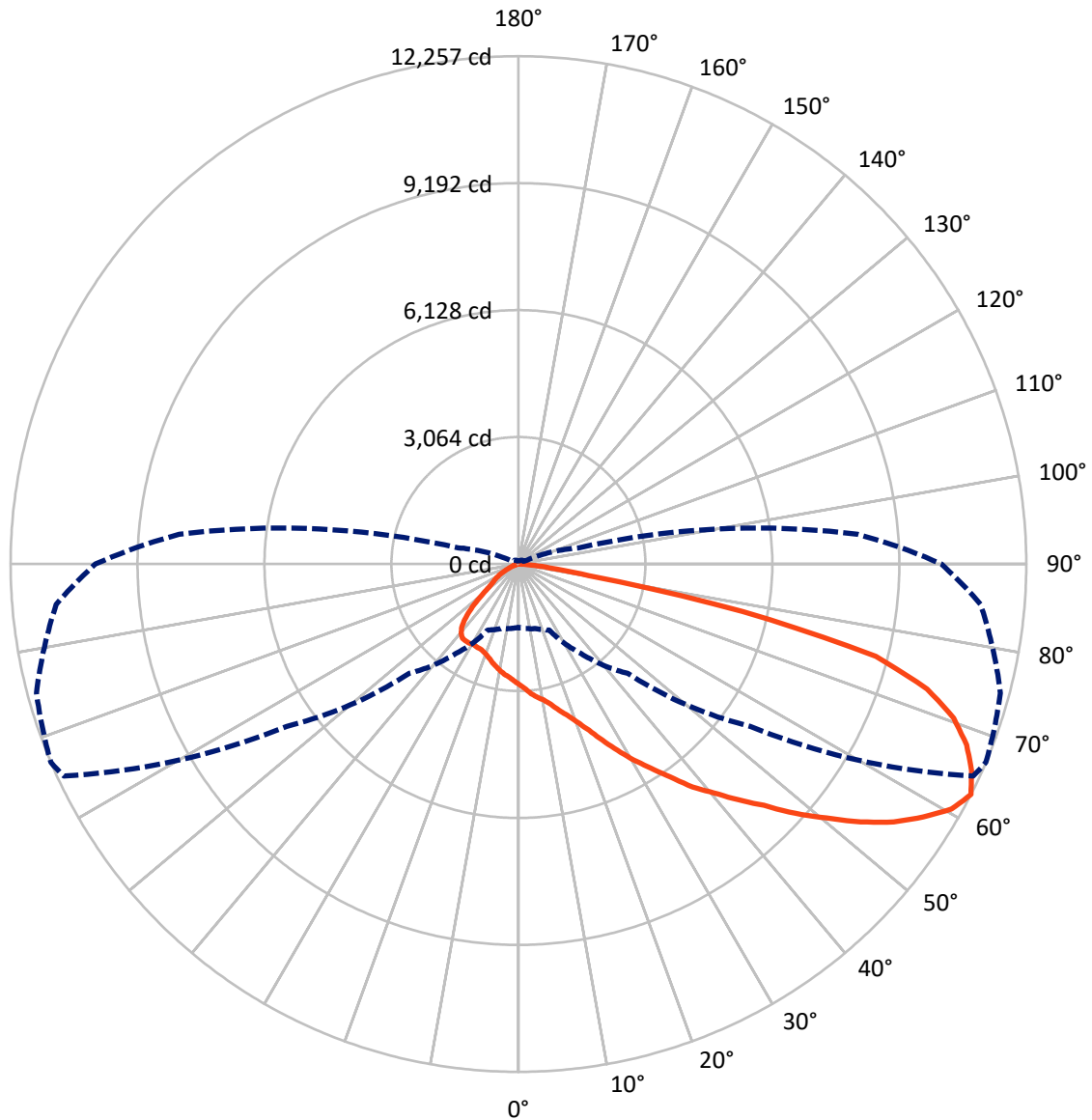
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

REPORT NUMBER: P509564
CATALOG NUMBER: VERD-G-CA2-120-750-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P509564

CATALOG NUMBER: VERD-G-CA2-120-750-U-T2-HSS

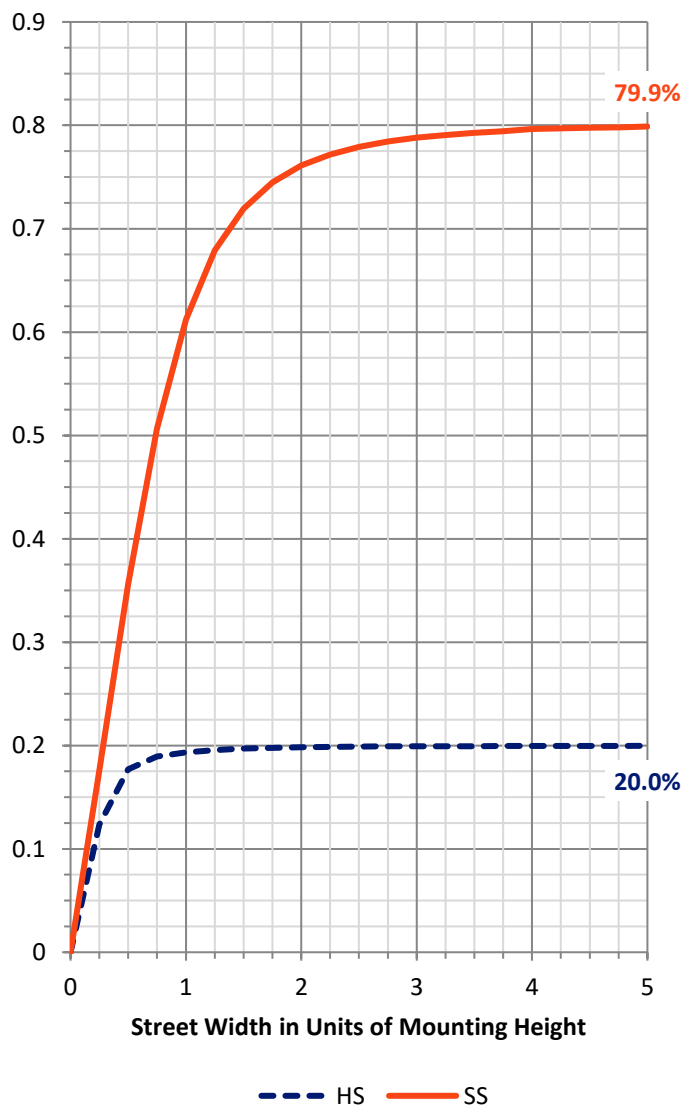
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3348.6	0.0	3348.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	13222.4	0.0	13222.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	16571.0	0.0	16571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	1.7
10°-20°	848.5	5.1
20°-30°	1447.3	8.7
30°-40°	2120.4	12.8
40°-50°	2798.2	16.9
50°-60°	3293.1	19.9
60°-70°	3386.9	20.4
70°-80°	2194.3	13.2
80°-90°	200.9	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°	16571.0	100.0
0°-180°	16571.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509564

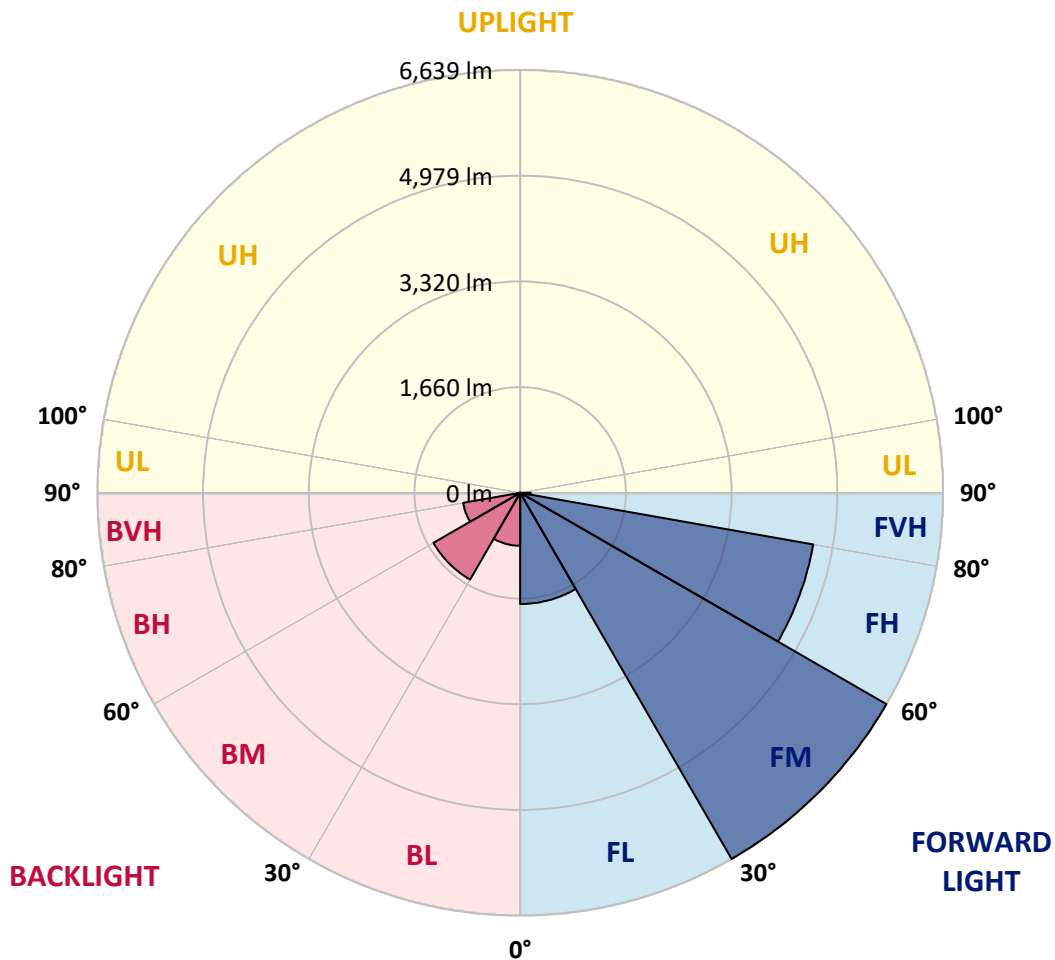
CATALOG NUMBER: VERD-G-CA2-120-750-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1744.9	10.5			
FM (30°-60°)	6639.2	40.1			
FH (60°-80°)	4672.1	28.2			G2/5000
FVH (80°-90°)	166.1	1.0			G2/225
BL (0°-30°)	832.2	5.0	B2/1000		
BM (30°-60°)	1572.5	9.5	B2/2500		
BH (60°-80°)	909.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	34.7	0.2			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 II Short





REPORT NUMBER: P509564

CATALOG NUMBER: VERD-G-CA2-120-750-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6
2.5°	3229.2	3225.6	3191.0	3158.8	3137.3	3136.1	3080.0	3029.8	3007.1	2980.9	2922.4
5°	3396.3	3425.0	3386.8	3339.0	3300.8	3272.2	3223.2	3165.9	3142.0	3080.0	2991.6
7.5°	3638.7	3638.7	3602.8	3562.3	3518.1	3441.7	3358.1	3257.8	3245.9	3176.7	3060.9
10°	3755.7	3784.3	3737.7	3690.0	3641.0	3601.7	3488.2	3365.3	3335.4	3231.6	3088.3
12.5°	3919.2	3919.2	3894.1	3853.5	3797.4	3718.6	3645.8	3521.7	3471.5	3316.3	3137.3
15°	4073.2	4060.1	4038.6	3971.7	3943.1	3894.1	3798.6	3668.5	3659.0	3487.0	3212.5
17.5°	4193.8	4172.3	4152.0	4116.2	4081.6	4062.5	3994.4	3881.0	3841.6	3684.0	3354.5
20°	4255.8	4273.8	4224.8	4223.6	4234.4	4220.0	4174.7	4089.9	4073.2	3885.8	3499.0
22.5°	4326.3	4350.2	4338.2	4350.2	4382.4	4406.3	4403.9	4386.0	4359.7	4155.6	3731.8
25°	4341.8	4326.3	4376.4	4487.4	4568.6	4625.9	4738.1	4715.5	4708.3	4528.0	4048.1
27.5°	4294.0	4308.4	4387.2	4547.1	4756.0	4912.4	5004.4	5117.8	5092.7	4953.0	4428.9
30°	4265.4	4290.5	4394.3	4581.7	4862.3	5145.2	5326.7	5467.5	5489.0	5378.0	4803.8
32.5°	4166.3	4199.7	4307.2	4609.2	4966.1	5394.7	5620.3	5883.0	5873.4	5828.1	5259.8
35°	4013.5	4057.7	4222.4	4573.4	5083.1	5619.1	5918.8	6300.8	6308.0	6327.1	5693.2
37.5°	3890.5	3904.9	4092.3	4467.1	5129.7	5800.6	6196.9	6713.9	6829.6	6802.2	6185.0
40°	3693.6	3736.5	3939.5	4337.0	5124.9	5923.6	6479.9	7197.3	7259.4	7345.4	6699.5
42.5°	3451.2	3497.8	3692.4	4160.3	5058.1	6031.0	6752.1	7690.4	7777.5	7912.4	7171.1
45°	3218.4	3238.7	3421.4	3902.5	4927.9	6115.8	7017.1	8176.2	8309.9	8503.3	7646.2
47.5°	2928.4	2983.3	3187.4	3632.7	4640.2	6146.8	7212.9	8749.3	8995.2	9113.4	8188.2
50°	2252.7	2287.3	2860.3	3395.1	4327.5	6050.1	7467.1	9476.3	9631.5	9754.4	8737.3
52.5°	1985.3	2016.3	2238.3	3120.6	3978.9	5799.4	7622.3	10152.0	10339.4	10313.1	9288.8
55°	1873.0	1888.6	1984.1	2546.3	3661.3	5333.8	7731.0	10889.7	10991.2	10821.7	9835.6
57.5°	1742.9	1760.8	1832.5	2134.5	3303.2	4744.1	7640.2	11480.6	11518.8	11308.7	10322.7
60°	1627.1	1639.1	1746.5	1910.1	2914.0	4172.3	7411.0	11905.6	12011.9	11666.9	10847.9
62.5°	1528.0	1556.7	1612.8	1757.3	2641.8	3729.4	6830.8	12106.2	12256.6	12041.7	11196.5
65°	1430.2	1443.3	1507.8	1635.5	2349.4	3467.9	6499.0	11842.4	12017.8	12091.9	11411.4
67.5°	1296.5	1315.6	1378.8	1470.7	1960.2	3213.7	5724.2	11413.8	11664.5	11828.0	11283.7
70°	1140.1	1156.8	1221.2	1297.6	1636.7	2838.8	4831.3	10976.9	11141.6	11152.3	10713.0
72.5°	958.6	974.1	1038.6	1115.0	1358.5	2363.7	3786.7	9941.8	10310.7	10544.7	9755.6
75°	610.0	676.9	836.8	922.8	1118.6	1912.4	2701.5	7937.5	8906.8	9575.4	8442.5
77.5°	99.1	111.0	328.3	468.0	650.6	1296.5	1500.6	4397.9	5532.0	8001.9	6816.5
80°	75.2	84.8	119.4	317.5	417.8	807.0	590.9	1427.8	1721.4	3741.3	3818.9
82.5°	32.2	38.2	71.6	177.9	197.0	214.9	158.8	638.7	755.7	1137.7	1325.1
85°	10.7	14.3	33.4	56.1	62.1	47.8	34.6	253.1	311.6	545.6	505.0
87.5°	0.0	1.2	7.2	8.4	7.2	4.8	3.6	2.4	2.4	3.6	3.6
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: P509564

CATALOG NUMBER: VERD-G-CA2-120-750-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6
2.5°	2910.4	2869.9	2865.1	2816.1	2772.0	2721.8	2690.8	2680.0	2694.4	2708.7	2723.0
5°	2946.3	2884.2	2822.1	2720.6	2675.3	2620.4	2547.5	2503.4	2483.1	2501.0	2507.0
7.5°	2972.5	2892.5	2797.0	2658.6	2560.7	2455.6	2386.4	2312.4	2271.8	2278.9	2284.9
10°	2977.3	2889.0	2726.6	2592.9	2435.3	2290.9	2200.1	2165.5	2138.1	2114.2	2117.8
12.5°	3021.5	2891.3	2666.9	2504.6	2338.6	2152.4	2050.9	2006.8	2002.0	1953.0	1948.3
15°	3081.2	2943.9	2635.9	2424.6	2212.1	2036.6	1916.0	1837.2	1839.6	1814.6	1811.0
17.5°	3177.9	2995.2	2613.2	2331.5	2079.6	1918.4	1765.6	1694.0	1671.3	1664.1	1658.2
20°	3286.5	3070.4	2585.7	2249.1	1963.8	1776.4	1605.6	1532.8	1469.6	1450.4	1452.8
22.5°	3446.5	3169.5	2608.4	2187.0	1834.8	1637.9	1468.4	1326.3	1217.7	1189.0	1185.4
25°	3729.4	3365.3	2676.5	2133.3	1754.9	1503.0	1275.0	1075.6	932.3	901.3	903.7
27.5°	4044.5	3623.1	2770.8	2110.6	1653.4	1353.8	1039.8	817.7	684.0	648.2	650.6
30°	4418.2	3929.9	2914.0	2047.3	1544.8	1136.5	774.8	599.3	495.4	453.6	456.0
32.5°	4777.5	4236.7	3097.9	2037.8	1408.7	853.6	559.9	435.7	351.0	319.9	323.5
35°	5173.9	4587.7	3291.3	1990.0	1185.4	612.4	392.8	302.0	256.7	247.1	245.9
37.5°	5622.7	4900.5	3434.5	1945.9	887.0	431.0	268.6	232.8	226.8	213.7	213.7
40°	6039.4	5226.4	3542.0	1828.9	620.8	292.5	210.1	211.3	205.3	187.4	183.8
42.5°	6423.8	5563.0	3641.0	1641.5	420.2	199.4	188.6	192.2	194.6	174.3	169.5
45°	6859.5	5978.5	3619.6	1359.7	267.4	180.3	169.5	180.3	192.2	171.9	167.1
47.5°	7337.0	6282.9	3664.9	981.3	188.6	170.7	157.6	171.9	181.5	168.3	161.2
50°	7876.6	6681.6	3527.6	570.6	173.1	161.2	151.6	157.6	171.9	164.7	156.4
52.5°	8370.8	7037.4	3340.2	279.3	163.5	151.6	142.1	146.8	161.2	152.8	155.2
55°	8787.5	7407.4	2959.4	199.4	157.6	140.9	137.3	138.5	146.8	136.1	143.3
57.5°	9298.4	7711.9	2572.6	186.2	152.8	133.7	134.9	125.3	127.7	121.8	114.6
60°	9753.2	7999.6	2047.3	171.9	145.6	137.3	121.8	108.6	101.5	97.9	96.7
62.5°	10208.1	8218.0	1508.9	156.4	138.5	124.2	107.4	93.1	81.2	76.4	75.2
65°	10380.0	8335.0	1030.2	143.3	130.1	113.4	95.5	75.2	62.1	57.3	53.7
67.5°	10252.2	7968.5	596.9	128.9	125.3	103.9	83.6	60.9	47.8	44.2	41.8
70°	9660.1	7393.1	318.7	117.0	109.8	91.9	74.0	50.1	38.2	33.4	32.2
72.5°	8641.8	6358.1	167.1	97.9	91.9	75.2	58.5	41.8	31.0	25.1	23.9
75°	7338.2	4991.2	117.0	71.6	63.3	58.5	44.2	33.4	25.1	19.1	17.9
77.5°	5792.2	3243.5	88.3	46.6	37.0	38.2	32.2	27.5	20.3	14.3	14.3
80°	2991.6	1685.6	66.9	31.0	21.5	22.7	22.7	20.3	15.5	10.7	10.7
82.5°	1186.6	620.8	46.6	17.9	13.1	14.3	13.1	13.1	10.7	7.2	7.2
85°	391.6	136.1	16.7	10.7	8.4	8.4	7.2	6.0	3.6	2.4	2.4
87.5°	3.6	3.6	4.8	6.0	6.0	4.8	3.6	1.2	0.0	0.0	0.0
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)