

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: P509181

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

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509181
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-CA2-120-750-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17363 lumens
Efficiency: N/A
Efficacy: 141.5 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

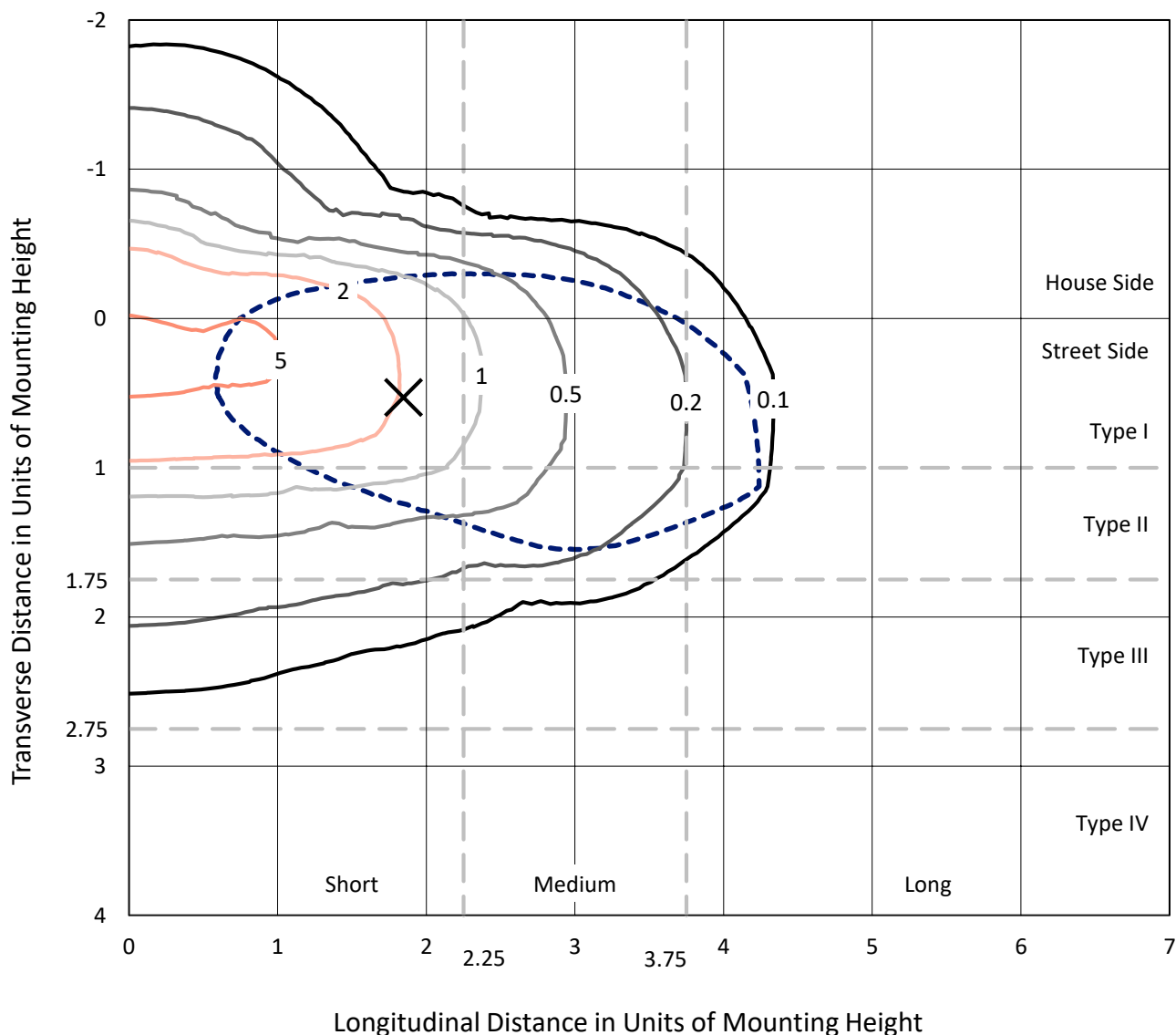
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509181
 CATALOG NUMBER: VERD-CA2-120-750-U-T2

Iso-Footcandle Lines of Horizontal Illumination

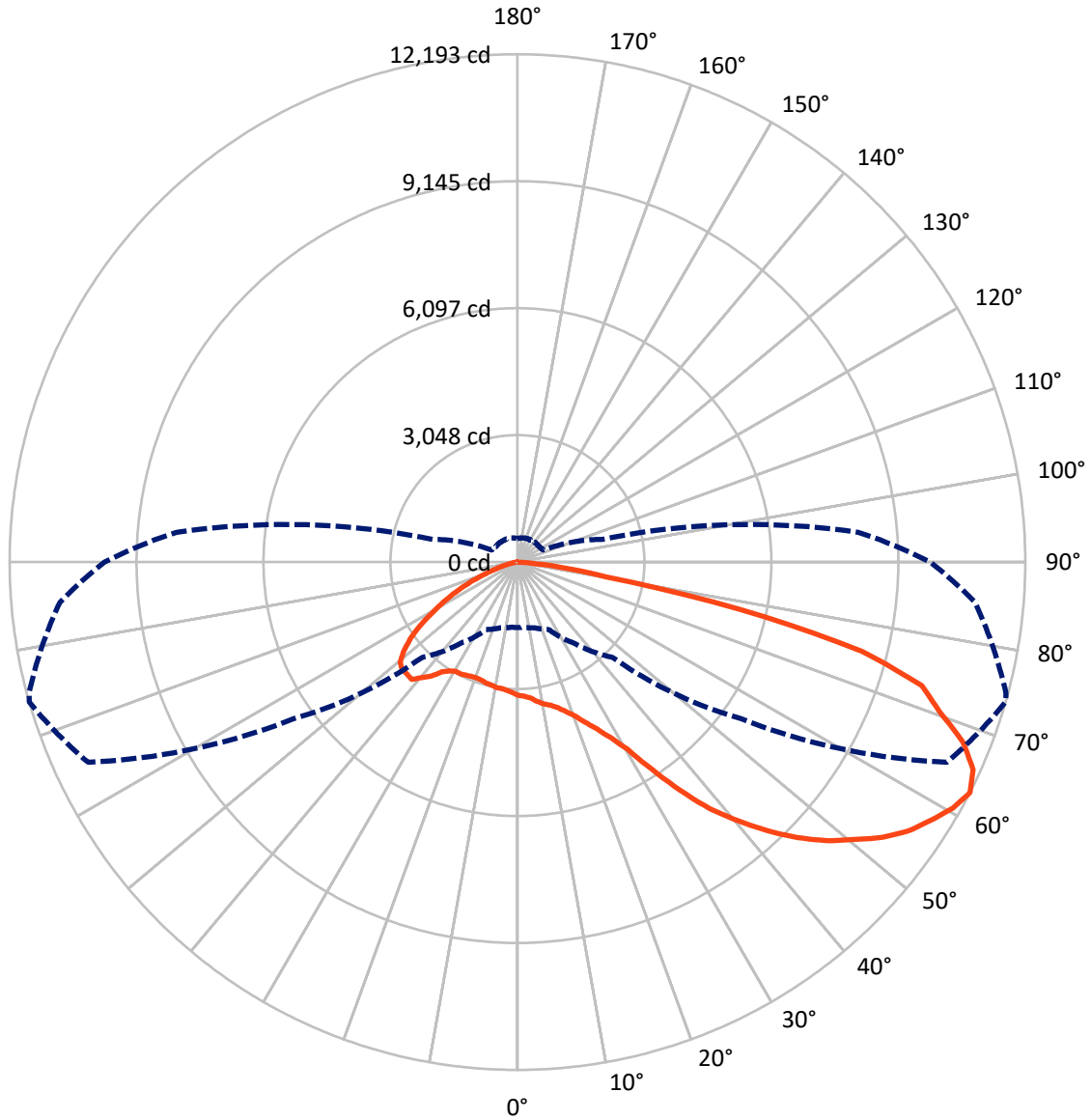
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

REPORT NUMBER: P509181
CATALOG NUMBER: VERD-CA2-120-750-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509181

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

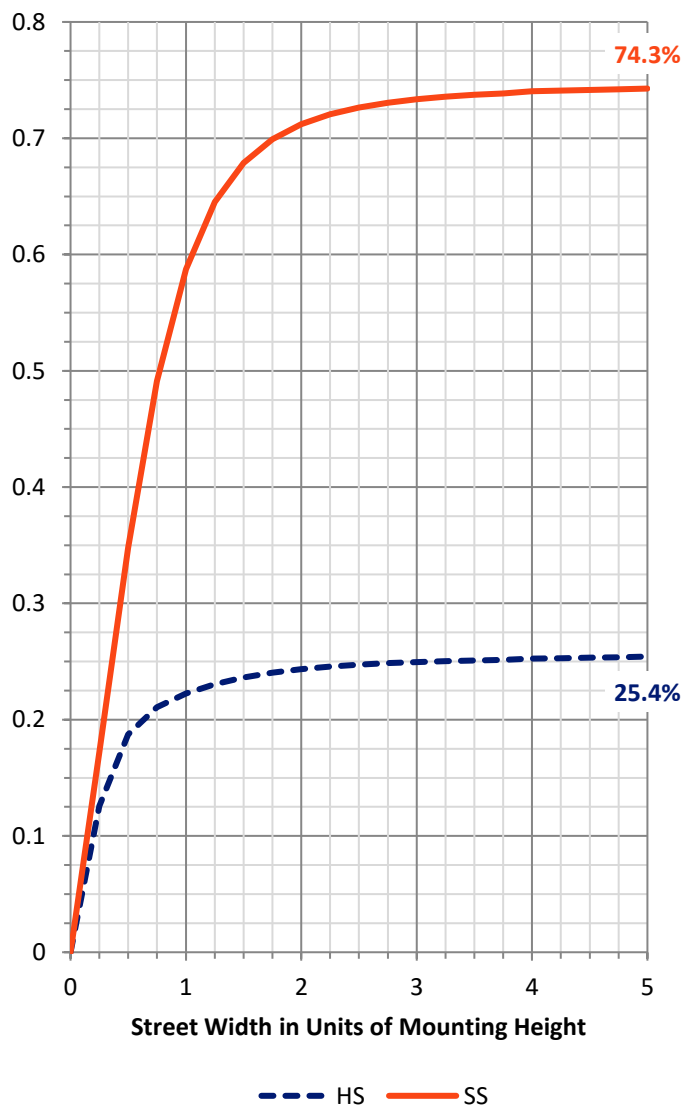
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4483.3	0.0	4483.3
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	12879.7	0.0	12879.7
	% Fixture	74.2	0.0	74.2
Total	Lumens	17363.0	0.0	17363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.7	1.8
10°-20°	938.0	5.4
20°-30°	1581.6	9.1
30°-40°	2310.8	13.3
40°-50°	3076.9	17.7
50°-60°	3541.0	20.4
60°-70°	3421.8	19.7
70°-80°	1969.8	11.3
80°-90°	215.5	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°	17363.0	100.0
0°-180°	17363.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509181

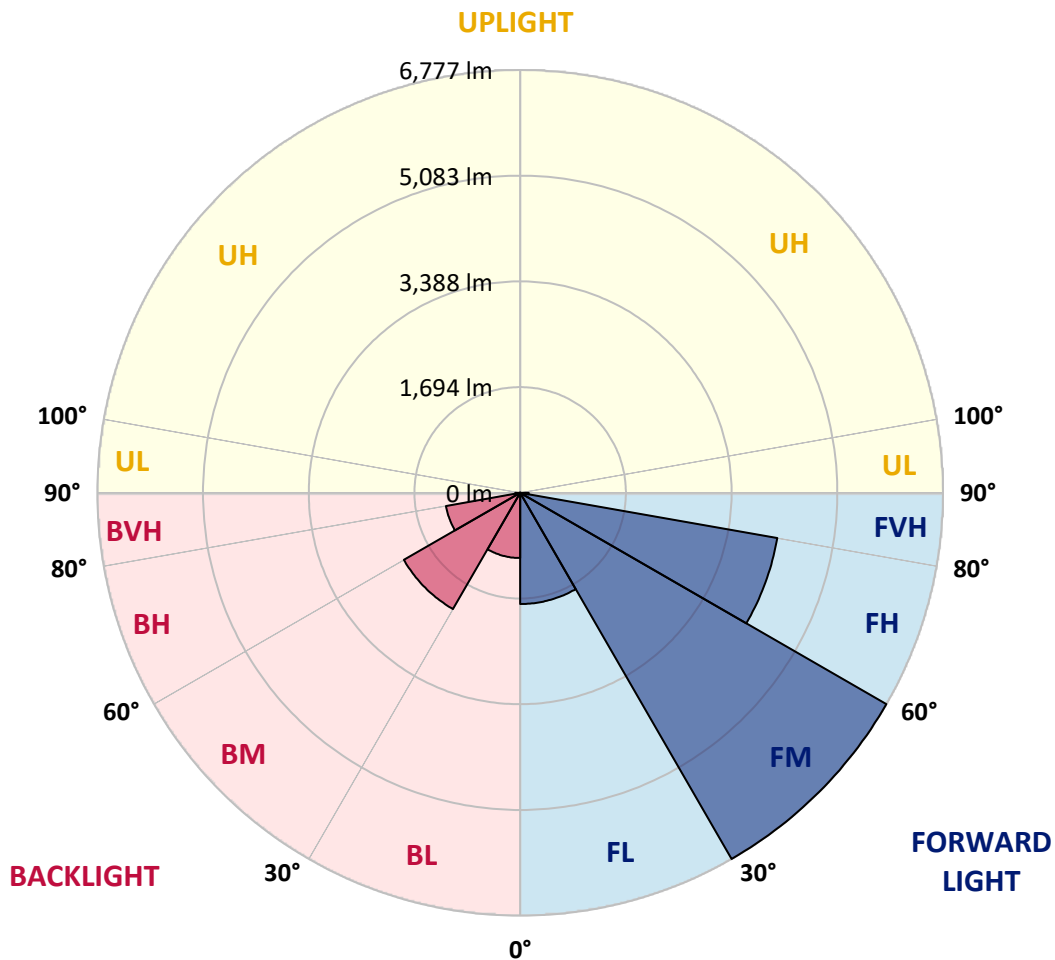
CATALOG NUMBER: VERD-CA2-120-750-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1782.0	10.3			
FM (30°-60°)	6776.8	39.0			
FH (60°-80°)	4184.6	24.1			G2/5000
FVH (80°-90°)	136.3	0.8			G2/225
BL (0°-30°)	1045.2	6.0	B3/2500		
BM (30°-60°)	2151.9	12.4	B2/2500		
BH (60°-80°)	1206.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	79.2	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: P509181
 CATALOG NUMBER: VERD-CA2-120-750-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3201.6	3201.6	3201.6	3201.6	3201.6	3201.6	3201.6	3201.6	3201.6	3201.6	3201.6
2.5°	3427.0	3402.3	3387.2	3370.2	3349.3	3341.8	3296.3	3256.6	3224.4	3226.3	3205.4
5°	3551.9	3525.4	3491.3	3485.6	3459.1	3453.5	3409.9	3347.4	3277.4	3267.9	3205.4
7.5°	3692.0	3676.9	3656.0	3629.5	3586.0	3557.6	3495.1	3445.9	3373.9	3364.5	3241.4
10°	3862.4	3851.1	3835.9	3835.9	3779.1	3718.5	3642.8	3519.7	3462.9	3453.5	3303.9
12.5°	4063.1	4029.0	3979.8	3951.4	3898.4	3860.5	3779.1	3648.5	3525.4	3521.6	3362.6
15°	4193.8	4165.4	4133.2	4121.8	4053.7	3991.2	3904.1	3799.9	3627.6	3614.4	3434.5
17.5°	4339.5	4313.0	4275.2	4254.3	4210.8	4138.9	4061.2	3924.9	3771.5	3758.3	3515.9
20°	4421.0	4392.6	4381.2	4385.0	4369.8	4333.9	4241.1	4118.0	3941.9	3924.9	3627.6
22.5°	4511.8	4492.9	4496.7	4525.1	4553.5	4540.2	4468.3	4332.0	4180.5	4154.0	3807.5
25°	4513.7	4498.6	4549.7	4659.5	4720.1	4750.4	4712.5	4600.8	4439.9	4415.3	4036.6
27.5°	4545.9	4523.2	4578.1	4693.6	4877.3	4939.7	4953.0	4911.3	4773.1	4742.8	4311.1
30°	4462.6	4447.5	4530.8	4731.5	4947.3	5155.6	5231.3	5295.7	5218.1	5220.0	4735.3
32.5°	4318.7	4292.2	4419.1	4665.2	5066.6	5350.6	5551.3	5810.7	5930.0	5918.6	5473.7
35°	4044.2	4059.3	4229.7	4606.5	5070.4	5549.4	5943.2	6407.1	6730.8	6723.3	6238.6
37.5°	3849.2	3841.6	4042.3	4441.8	5068.5	5725.5	6323.8	7096.3	7514.7	7503.3	6895.6
40°	3614.4	3616.3	3817.0	4237.3	4979.5	5835.3	6717.6	7749.5	8175.5	8158.4	7524.2
42.5°	3362.6	3370.2	3557.6	3987.4	4856.4	5918.6	7069.7	8410.2	8823.0	8838.1	8027.8
45°	3137.3	3141.1	3326.6	3720.4	4638.7	5928.1	7385.9	9035.0	9436.4	9400.5	8556.0
47.5°	2805.9	2809.7	3084.3	3466.7	4350.9	5850.4	7647.2	9629.6	9996.9	9921.1	9002.9
50°	2198.2	2205.7	2531.4	3203.5	4000.6	5672.5	7853.6	10188.1	10472.1	10439.9	9461.0
52.5°	2029.7	2024.0	2160.3	2889.2	3686.3	5350.6	7984.2	10689.8	10977.6	10973.8	9839.7
55°	1944.5	1938.8	1984.2	2342.1	3377.7	4873.5	7980.4	11079.9	11396.0	11318.4	10186.2
57.5°	1793.0	1781.6	1899.0	2075.1	3033.1	4279.0	7791.1	11430.1	11699.0	11676.3	10498.6
60°	1685.1	1675.6	1755.1	1918.0	2665.8	3675.0	7304.5	11611.9	12003.8	12013.3	10761.8
62.5°	1573.4	1567.7	1635.8	1787.3	2378.0	3233.8	6554.8	11373.3	12193.1	12142.0	11024.9
65°	1446.5	1442.7	1507.1	1630.2	2092.1	2898.7	5820.1	10947.3	12022.7	12081.4	11059.0
67.5°	1295.0	1293.2	1355.6	1440.8	1779.7	2561.7	4695.5	10445.6	11536.2	11471.8	10621.7
70°	1109.5	1101.9	1179.6	1259.1	1490.1	2179.2	3654.2	9553.8	10744.7	10977.6	9750.7
72.5°	933.4	929.6	1003.5	1062.2	1234.5	1779.7	2665.8	8262.6	10152.1	9817.0	8785.1
75°	730.8	711.9	789.5	844.4	973.2	1416.2	1817.6	5519.1	8544.7	8474.6	7380.3
77.5°	295.4	342.7	409.0	458.2	543.4	802.8	950.5	2618.5	5450.9	5691.4	5132.9
80°	113.6	121.2	291.6	329.4	365.4	462.0	365.4	1103.8	2150.8	2345.9	2972.6
82.5°	64.4	71.9	143.9	138.2	136.3	117.4	136.3	541.5	1122.8	1230.7	1435.2
85°	36.0	39.8	58.7	64.4	54.9	47.3	41.7	142.0	280.2	265.1	297.3
87.5°	5.7	7.6	9.5	9.5	5.7	5.7	5.7	7.6	7.6	7.6	9.5
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: P509181
 CATALOG NUMBER: VERD-CA2-120-750-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3201.6	3201.6	3201.6	3201.6	3201.6	3201.6	3201.6	3201.6	3201.6	3201.6	3201.6
2.5°	3184.6	3163.8	3143.0	3118.3	3088.0	3069.1	3061.5	3071.0	3097.5	3065.3	3038.8
5°	3173.2	3144.8	3097.5	3050.2	3012.3	2980.1	2936.6	2932.8	2940.4	2927.1	2893.0
7.5°	3197.9	3156.2	3059.6	3027.5	2947.9	2872.2	2847.6	2838.1	2815.4	2788.9	2756.7
10°	3247.1	3161.9	3063.4	2968.8	2894.9	2813.5	2718.8	2720.7	2711.3	2681.0	2650.7
12.5°	3271.7	3171.4	3027.5	2927.1	2813.5	2713.2	2620.4	2578.7	2595.8	2571.2	2539.0
15°	3317.1	3211.1	3014.2	2866.5	2711.3	2597.7	2527.6	2467.0	2429.2	2434.8	2415.9
17.5°	3402.3	3247.1	2980.1	2800.3	2631.7	2497.3	2362.9	2357.2	2300.4	2268.2	2239.8
20°	3491.3	3311.5	2976.3	2728.3	2503.0	2336.4	2228.5	2167.9	2133.8	2107.3	2086.5
22.5°	3606.8	3400.4	2989.6	2686.7	2387.5	2200.1	2061.9	1980.4	1925.5	1906.6	1891.5
25°	3769.6	3512.2	3025.6	2612.8	2266.3	2050.5	1863.1	1777.9	1715.4	1700.2	1688.9
27.5°	3993.1	3654.2	3061.5	2533.3	2124.3	1840.3	1641.5	1558.2	1488.2	1486.3	1465.4
30°	4345.2	3871.9	3074.8	2463.2	1972.9	1615.0	1416.2	1338.6	1285.6	1264.8	1279.9
32.5°	5002.2	4352.8	3158.1	2355.3	1781.6	1395.4	1226.9	1164.4	1105.7	1083.0	1098.1
35°	5712.2	4928.4	3298.2	2281.5	1571.5	1187.1	1071.6	997.8	925.8	914.5	908.8
37.5°	6232.9	5452.8	3563.3	2160.3	1372.7	1060.3	908.8	848.2	806.6	783.8	804.7
40°	6823.6	5888.3	3764.0	2031.6	1170.1	925.8	757.3	738.4	719.5	704.3	727.0
42.5°	7291.3	6337.0	4002.5	1861.2	1007.3	785.7	674.0	689.2	698.6	691.1	693.0
45°	7721.1	6670.3	4017.7	1601.8	859.6	681.6	649.4	679.7	702.4	698.6	696.8
47.5°	8141.4	7067.9	4053.7	1327.2	753.6	655.1	651.3	674.0	704.3	710.0	710.0
50°	8575.0	7370.8	3998.7	1067.8	713.8	658.9	657.0	655.1	693.0	694.9	700.5
52.5°	8900.6	7616.9	3739.4	882.3	711.9	670.2	666.5	647.5	664.6	677.8	668.4
55°	9245.2	7923.6	3411.8	812.2	708.1	674.0	689.2	657.0	645.6	634.3	645.6
57.5°	9572.8	8137.6	2982.0	770.6	693.0	668.4	698.6	655.1	630.5	598.3	586.9
60°	9824.6	8186.8	2503.0	727.0	674.0	655.1	657.0	641.8	609.7	569.9	552.9
62.5°	9909.8	8215.2	2105.4	685.4	636.2	634.3	619.1	613.4	600.2	575.6	568.0
65°	9837.8	7893.4	1681.3	634.3	604.0	605.9	583.2	564.2	533.9	494.2	490.4
67.5°	9343.7	7327.2	1289.4	569.9	554.8	573.7	549.1	516.9	482.8	456.3	460.1
70°	8497.3	6657.0	905.0	480.9	497.9	532.0	522.6	480.9	443.0	420.3	424.1
72.5°	7556.3	5640.3	615.3	374.9	405.2	477.1	477.1	448.7	410.9	380.6	373.0
75°	5960.2	4430.4	397.6	248.0	267.0	390.0	422.2	378.7	337.0	318.1	310.5
77.5°	4046.1	2885.5	253.7	142.0	178.0	255.6	333.2	338.9	399.5	401.4	384.3
80°	2378.0	1651.0	155.3	83.3	89.0	147.7	267.0	335.1	424.1	299.1	274.5
82.5°	1183.3	704.3	70.1	51.1	53.0	73.8	143.9	384.3	327.5	187.4	179.9
85°	263.2	115.5	28.4	26.5	30.3	37.9	73.8	318.1	200.7	151.5	147.7
87.5°	9.5	7.6	7.6	7.6	5.7	5.7	15.1	104.1	79.5	66.3	62.5
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)