

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: P509556

Luminaire Tested: **VERD-G-CA2-120-740-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509556
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-CA2-120-740-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16273 lumens
Efficiency: N/A
Efficacy: 130.5 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

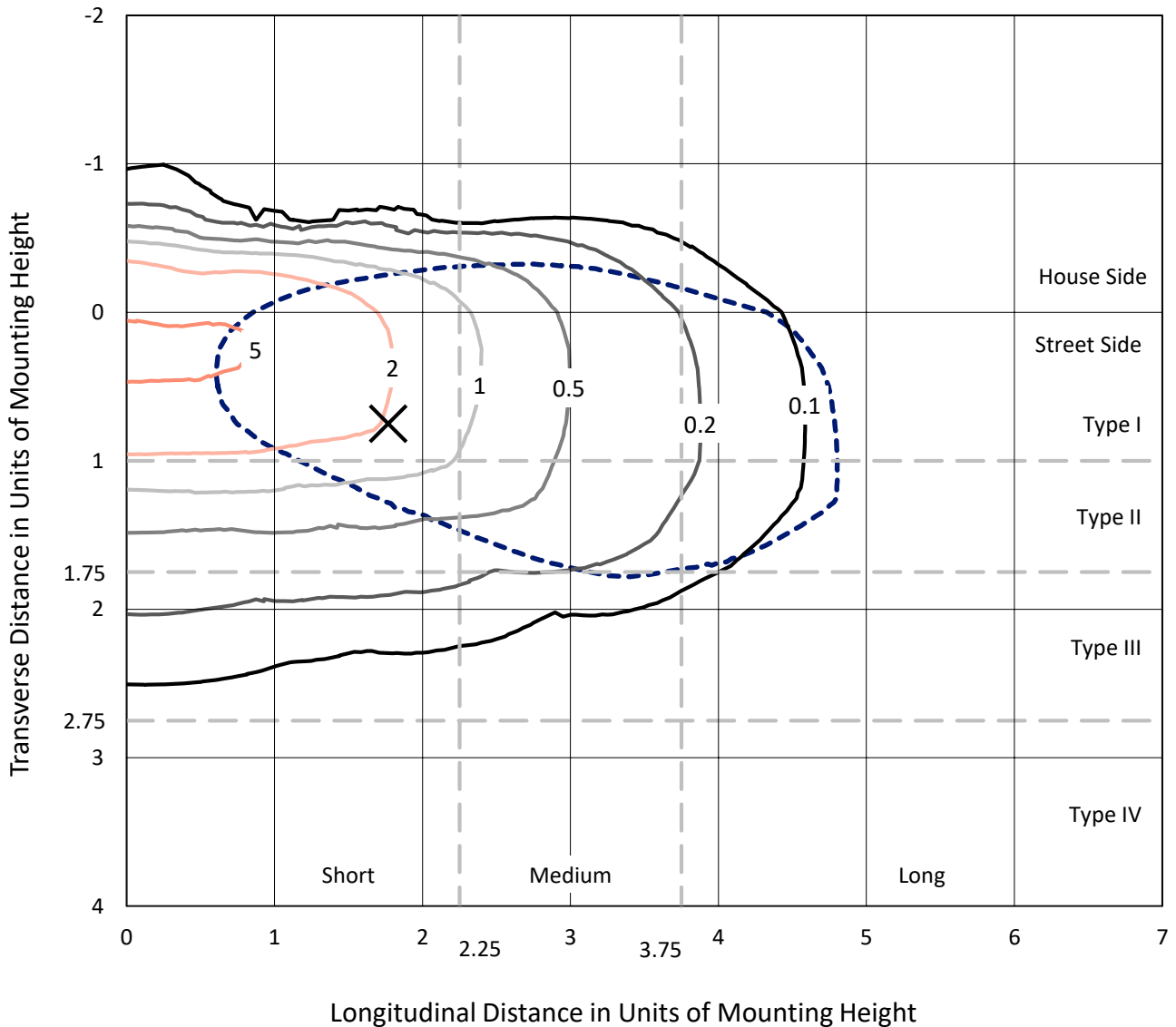
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

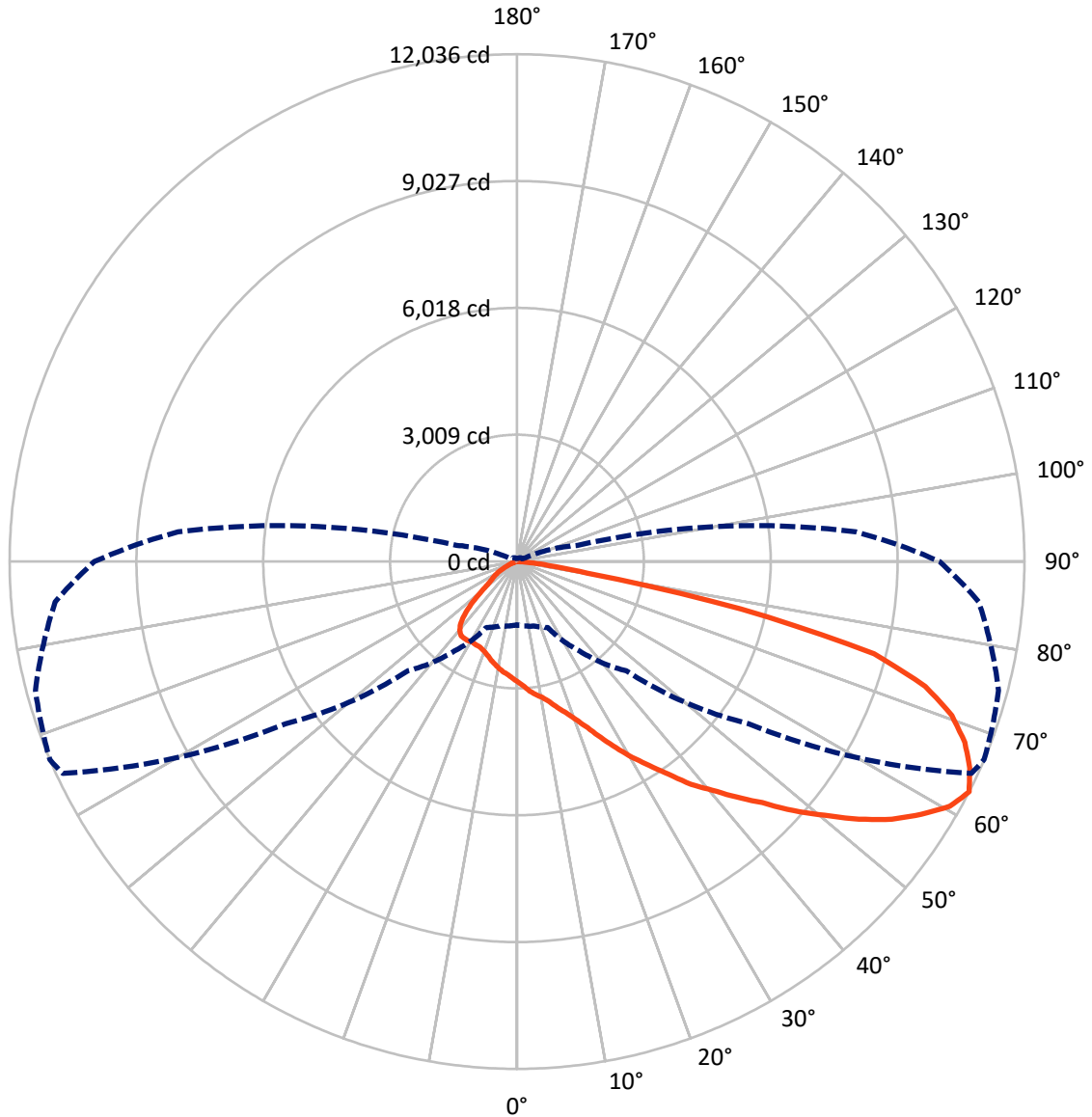
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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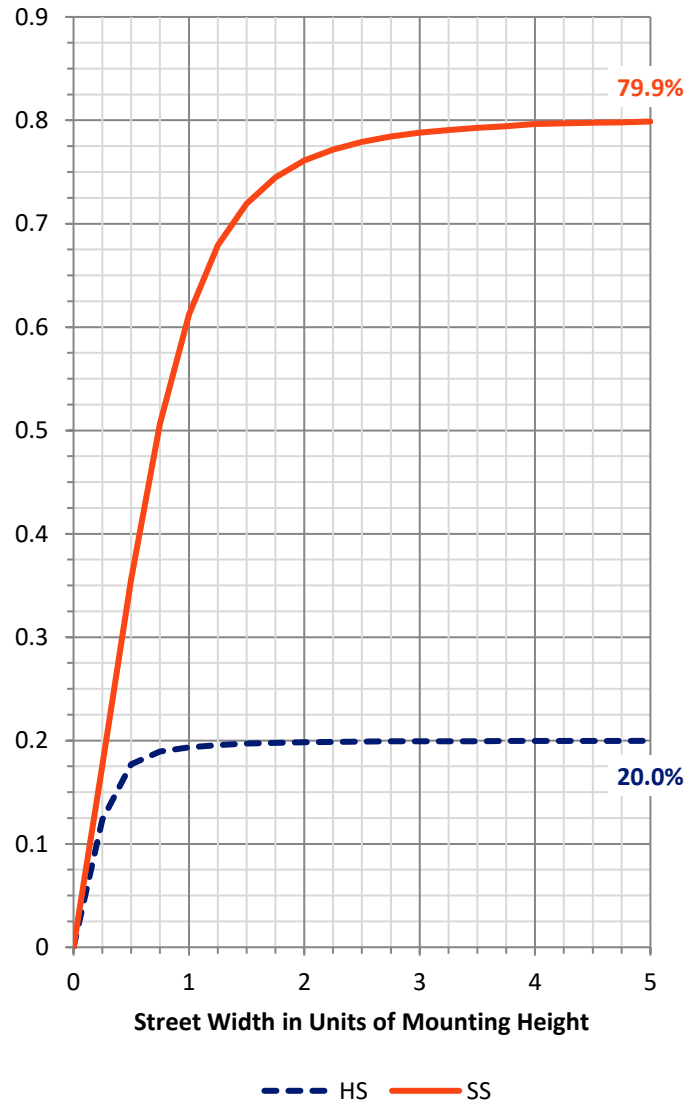
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3288.4	0.0	3288.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	12984.6	0.0	12984.6
	% Fixture	79.8	0.0	79.8
Total	Lumens	16273.0	0.0	16273.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.3	1.7
10°-20°	833.2	5.1
20°-30°	1421.3	8.7
30°-40°	2082.2	12.8
40°-50°	2747.9	16.9
50°-60°	3233.9	19.9
60°-70°	3326.0	20.4
70°-80°	2154.9	13.2
80°-90°	197.2	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°	16273.0	100.0
0°-180°	16273.0	100.0



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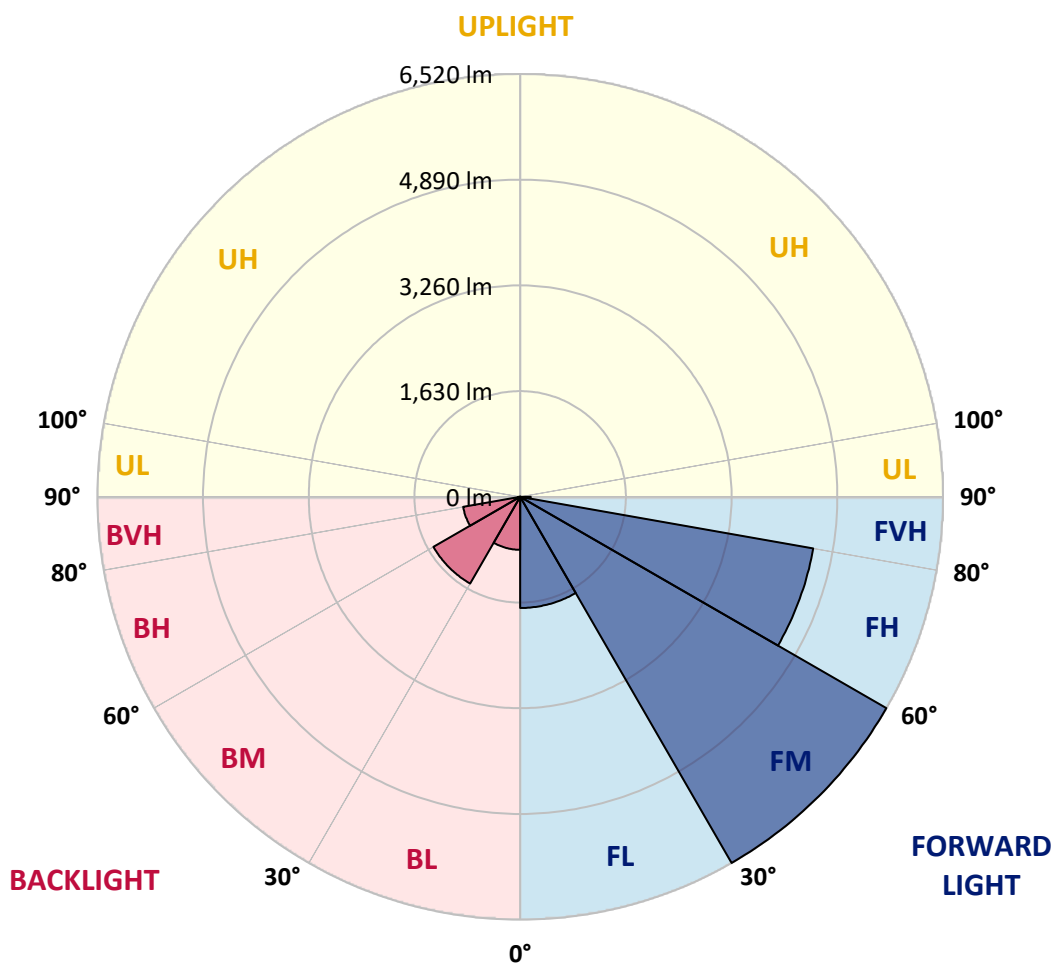
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1713.5	10.5			
FM (30°-60°)	6519.8	40.1			
FH (60°-80°)	4588.1	28.2			G2/5000
FVH (80°-90°)	163.1	1.0			G2/225
BL (0°-30°)	817.3	5.0	B2/1000		
BM (30°-60°)	1544.2	9.5	B2/2500		
BH (60°-80°)	892.8	5.5	B2/1000		G2/1000
BVH (80°-90°)	34.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2859.3	2859.3	2859.3	2859.3	2859.3	2859.3	2859.3	2859.3	2859.3	2859.3	2859.3
2.5°	3171.1	3167.6	3133.6	3102.0	3080.9	3079.7	3024.6	2975.3	2953.1	2927.3	2869.8
5°	3335.2	3363.4	3325.9	3279.0	3241.5	3213.3	3165.3	3109.0	3085.5	3024.6	2937.8
7.5°	3573.2	3573.2	3538.1	3498.2	3454.8	3379.8	3297.7	3199.3	3187.5	3119.5	3005.8
10°	3688.1	3716.2	3670.5	3623.6	3575.6	3536.9	3425.5	3304.8	3275.5	3173.5	3032.8
12.5°	3848.7	3848.7	3824.1	3784.2	3729.1	3651.8	3580.3	3458.3	3409.1	3256.7	3080.9
15°	3999.9	3987.1	3966.0	3900.3	3872.2	3824.1	3730.3	3602.5	3593.2	3424.3	3154.7
17.5°	4118.4	4097.3	4077.3	4042.2	4008.2	3989.4	3922.6	3811.2	3772.5	3617.8	3294.2
20°	4179.3	4196.9	4148.8	4147.7	4158.2	4144.1	4099.6	4016.4	3999.9	3815.9	3436.1
22.5°	4248.5	4271.9	4260.2	4271.9	4303.6	4327.0	4324.7	4307.1	4281.3	4080.8	3664.7
25°	4263.7	4248.5	4297.7	4406.7	4486.5	4542.7	4652.9	4630.7	4623.6	4446.6	3975.3
27.5°	4216.8	4230.9	4308.3	4465.4	4670.5	4824.1	4914.4	5025.7	5001.1	4863.9	4349.3
30°	4188.7	4213.3	4315.3	4499.4	4774.8	5052.7	5230.9	5369.2	5390.3	5281.3	4717.4
32.5°	4091.4	4124.2	4229.7	4526.3	4876.8	5297.7	5519.3	5777.2	5767.8	5723.3	5165.2
35°	3941.3	3984.7	4146.5	4491.1	4991.7	5518.1	5812.4	6187.5	6194.5	6213.3	5590.8
37.5°	3820.6	3834.7	4018.7	4386.8	5037.4	5696.3	6085.5	6593.1	6706.8	6679.9	6073.8
40°	3627.2	3669.4	3868.6	4259.0	5032.8	5817.0	6363.3	7067.9	7128.9	7213.3	6579.0
42.5°	3389.2	3434.9	3626.0	4085.5	4967.1	5922.5	6630.6	7552.1	7637.6	7770.1	7042.1
45°	3160.6	3180.5	3359.9	3832.3	4839.3	6005.8	6890.9	8029.2	8160.5	8350.4	7508.7
47.5°	2875.7	2929.6	3130.1	3567.4	4556.8	6036.3	7083.1	8591.9	8833.4	8949.5	8040.9
50°	2212.2	2246.2	2808.9	3334.1	4249.7	5941.3	7332.8	9305.9	9458.3	9579.0	8580.2
52.5°	1949.6	1980.0	2198.1	3064.4	3907.3	5695.1	7485.2	9969.4	10153.4	10127.7	9121.8
55°	1839.4	1854.6	1948.4	2500.6	3595.5	5237.9	7591.9	10693.9	10793.5	10627.1	9658.7
57.5°	1711.6	1729.2	1799.5	2096.1	3243.8	4658.8	7502.8	11274.2	11311.7	11105.4	10137.0
60°	1597.9	1609.6	1715.1	1875.7	2861.6	4097.3	7277.7	11691.5	11795.9	11457.1	10652.9
62.5°	1500.6	1528.7	1583.8	1725.7	2594.3	3662.3	6708.0	11888.5	12036.2	11825.2	10995.2
65°	1404.4	1417.3	1480.6	1606.1	2307.1	3405.6	6382.1	11629.4	11801.7	11874.4	11206.2
67.5°	1273.1	1291.9	1354.0	1444.3	1924.9	3155.9	5621.3	11208.5	11454.7	11615.3	11080.7
70°	1119.6	1136.0	1199.3	1274.3	1607.2	2787.8	4744.4	10779.5	10941.2	10951.8	10520.4
72.5°	941.4	956.6	1019.9	1094.9	1334.1	2321.2	3718.6	9763.1	10125.3	10355.1	9580.2
75°	599.1	664.7	821.8	906.2	1098.5	1878.1	2653.0	7794.7	8746.7	9403.2	8290.6
77.5°	97.3	109.0	322.4	459.5	638.9	1273.1	1473.6	4318.8	5432.5	7858.0	6693.9
80°	73.9	83.2	117.2	311.8	410.3	792.5	580.3	1402.1	1690.5	3674.0	3750.2
82.5°	31.7	37.5	70.3	174.7	193.4	211.0	155.9	627.2	742.1	1117.2	1301.3
85°	10.6	14.1	32.8	55.1	61.0	46.9	34.0	248.5	306.0	535.7	495.9
87.5°	0.0	1.2	7.0	8.2	7.0	4.7	3.5	2.3	2.3	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2859.3	2859.3	2859.3	2859.3	2859.3	2859.3	2859.3	2859.3	2859.3	2859.3	2859.3
2.5°	2858.1	2818.3	2813.6	2765.5	2722.1	2672.9	2642.4	2631.9	2645.9	2660.0	2674.1
5°	2893.3	2832.3	2771.4	2671.7	2627.2	2573.2	2501.7	2458.4	2438.4	2456.0	2461.9
7.5°	2919.1	2840.5	2746.7	2610.8	2514.6	2411.5	2343.5	2270.8	2230.9	2238.0	2243.8
10°	2923.8	2837.0	2677.6	2546.3	2391.5	2249.7	2160.6	2126.6	2099.6	2076.2	2079.7
12.5°	2967.1	2839.4	2619.0	2459.5	2296.6	2113.7	2014.0	1970.7	1966.0	1917.9	1913.2
15°	3025.8	2890.9	2588.5	2381.0	2172.3	2000.0	1881.6	1804.2	1806.5	1781.9	1778.4
17.5°	3120.7	2941.3	2566.2	2289.5	2042.2	1883.9	1733.9	1663.5	1641.2	1634.2	1628.3
20°	3227.4	3015.2	2539.2	2208.6	1928.5	1744.4	1576.8	1505.3	1443.1	1424.4	1426.7
22.5°	3384.5	3112.5	2561.5	2147.7	1801.9	1608.4	1442.0	1302.4	1195.8	1167.6	1164.1
25°	3662.3	3304.8	2628.3	2094.9	1723.3	1475.9	1252.0	1056.3	915.6	885.1	887.4
27.5°	3971.8	3558.0	2720.9	2072.7	1623.7	1329.4	1021.1	803.0	671.7	636.6	638.9
30°	4338.7	3859.3	2861.6	2010.5	1517.0	1116.0	760.8	588.5	486.5	445.5	447.8
32.5°	4691.6	4160.6	3042.2	2001.1	1383.3	838.2	549.8	427.9	344.7	314.2	317.7
35°	5080.8	4505.2	3232.1	1954.3	1164.1	601.4	385.7	296.6	252.0	242.7	241.5
37.5°	5521.6	4812.4	3372.8	1910.9	871.0	423.2	263.8	228.6	222.7	209.8	209.8
40°	5930.8	5132.4	3478.3	1796.0	609.6	287.2	206.3	207.5	201.6	184.1	180.5
42.5°	6308.2	5463.0	3575.6	1611.9	412.7	195.8	185.2	188.7	191.1	171.2	166.5
45°	6736.1	5871.0	3554.5	1335.3	262.6	177.0	166.5	177.0	188.7	168.8	164.1
47.5°	7205.1	6169.9	3599.0	963.6	185.2	167.6	154.7	168.8	178.2	165.3	158.3
50°	7735.0	6561.5	3464.2	560.4	170.0	158.3	148.9	154.7	168.8	161.8	153.6
52.5°	8220.3	6910.8	3280.1	274.3	160.6	148.9	139.5	144.2	158.3	150.1	152.4
55°	8629.4	7274.2	2906.2	195.8	154.7	138.3	134.8	136.0	144.2	133.6	140.7
57.5°	9131.2	7573.2	2526.3	182.9	150.1	131.3	132.5	123.1	125.4	119.6	112.5
60°	9577.8	7855.7	2010.5	168.8	143.0	134.8	119.6	106.7	99.6	96.1	95.0
62.5°	10024.5	8070.2	1481.8	153.6	136.0	121.9	105.5	91.4	79.7	75.0	73.9
65°	10193.3	8185.1	1011.7	140.7	127.8	111.4	93.8	73.9	61.0	56.3	52.8
67.5°	10067.9	7825.2	586.2	126.6	123.1	102.0	82.1	59.8	46.9	43.4	41.0
70°	9486.4	7260.2	313.0	114.9	107.9	90.3	72.7	49.2	37.5	32.8	31.7
72.5°	8486.4	6243.8	164.1	96.1	90.3	73.9	57.4	41.0	30.5	24.6	23.4
75°	7206.2	4901.5	114.9	70.3	62.1	57.4	43.4	32.8	24.6	18.8	17.6
77.5°	5688.1	3185.2	86.8	45.7	36.3	37.5	31.7	27.0	19.9	14.1	14.1
80°	2937.8	1655.3	65.6	30.5	21.1	22.3	22.3	19.9	15.2	10.6	10.6
82.5°	1165.3	609.6	45.7	17.6	12.9	14.1	12.9	12.9	10.6	7.0	7.0
85°	384.5	133.6	16.4	10.6	8.2	8.2	7.0	5.9	3.5	2.3	2.3
87.5°	3.5	3.5	4.7	5.9	5.9	4.7	3.5	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)