

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: P553608

Luminaire Tested: **VERD-G-CA2-160-730-U-T2-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-160-730-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1460mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20510 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

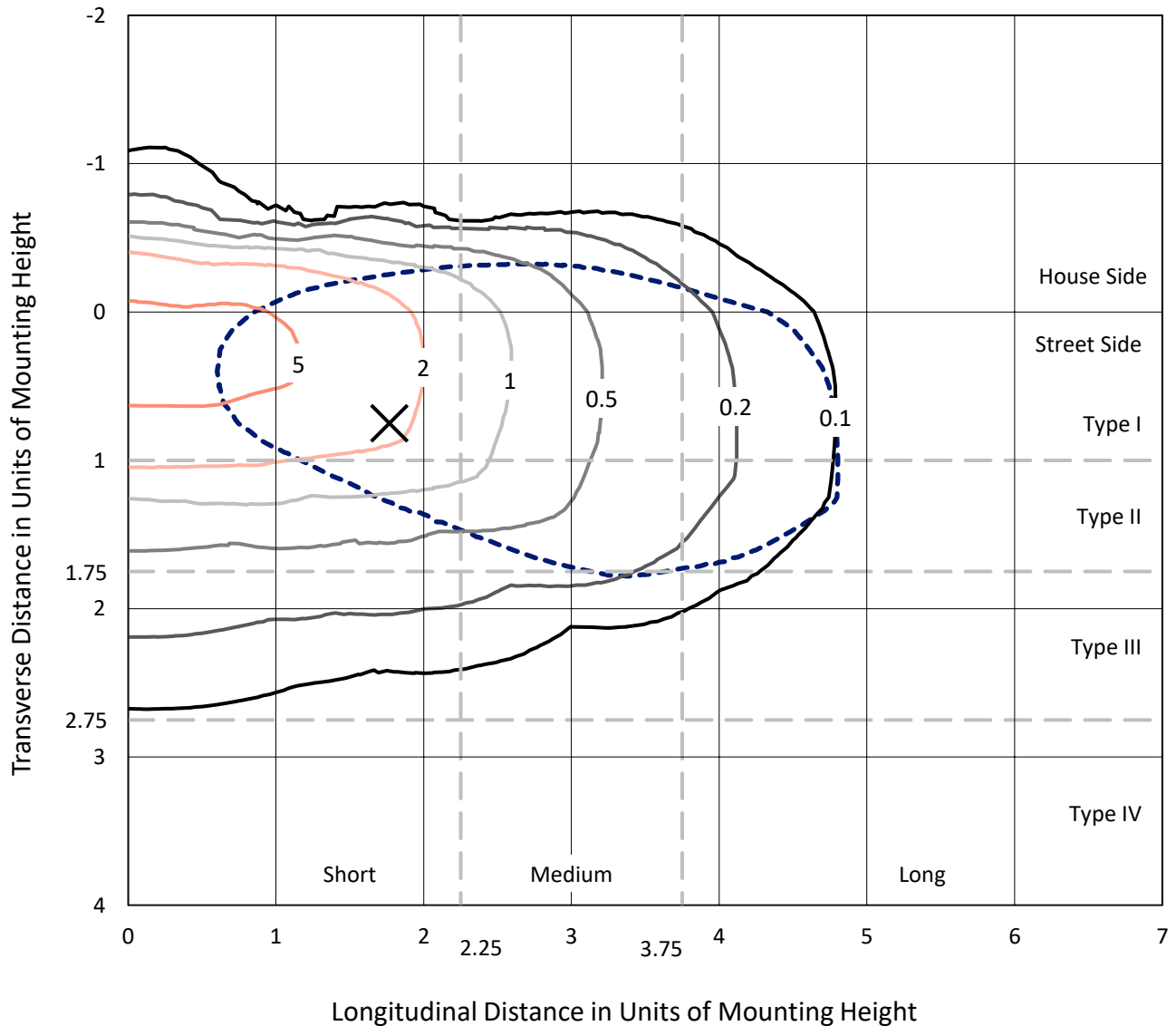
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

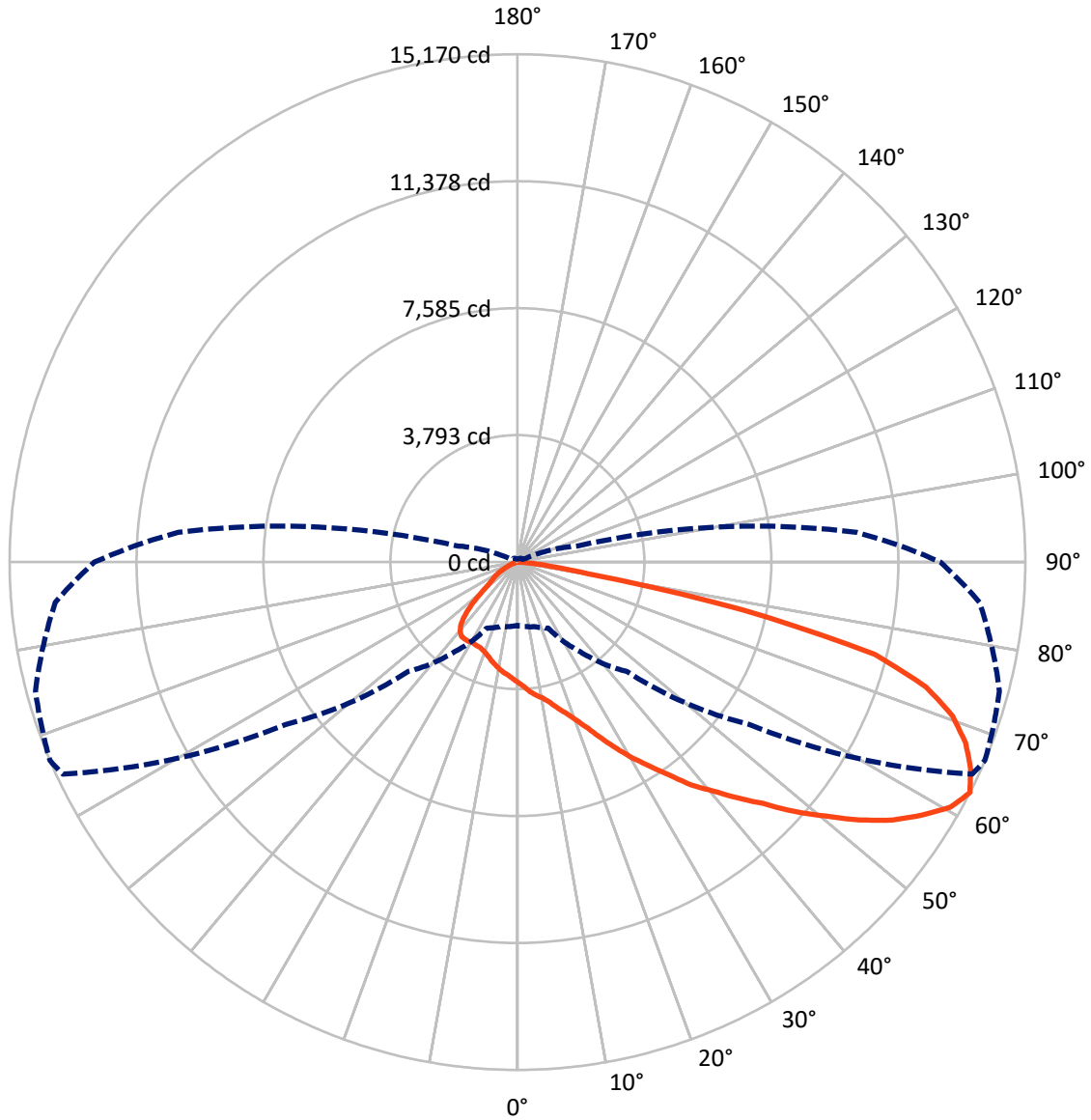
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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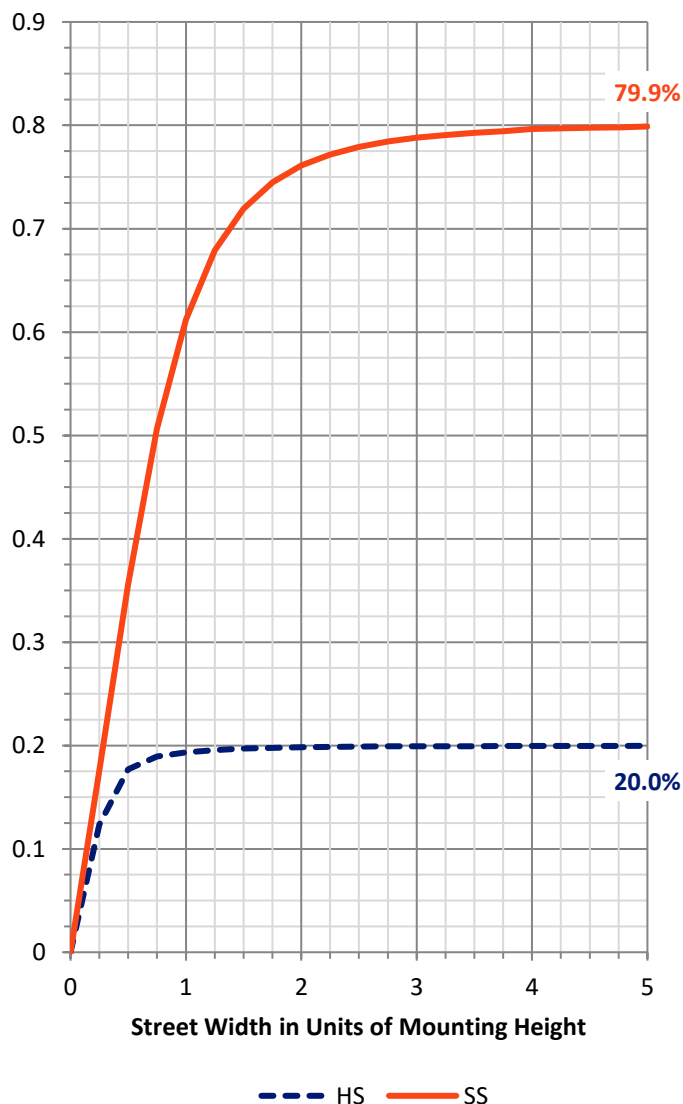
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4144.6	0.0	4144.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	16365.4	0.0	16365.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	20510.0	0.0	20510.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.2	1.7
10°-20°	1050.2	5.1
20°-30°	1791.4	8.7
30°-40°	2624.4	12.8
40°-50°	3463.4	16.9
50°-60°	4075.9	19.9
60°-70°	4192.0	20.4
70°-80°	2716.0	13.2
80°-90°	248.6	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°	20510.0	100.0
0°-180°	20510.0	100.0



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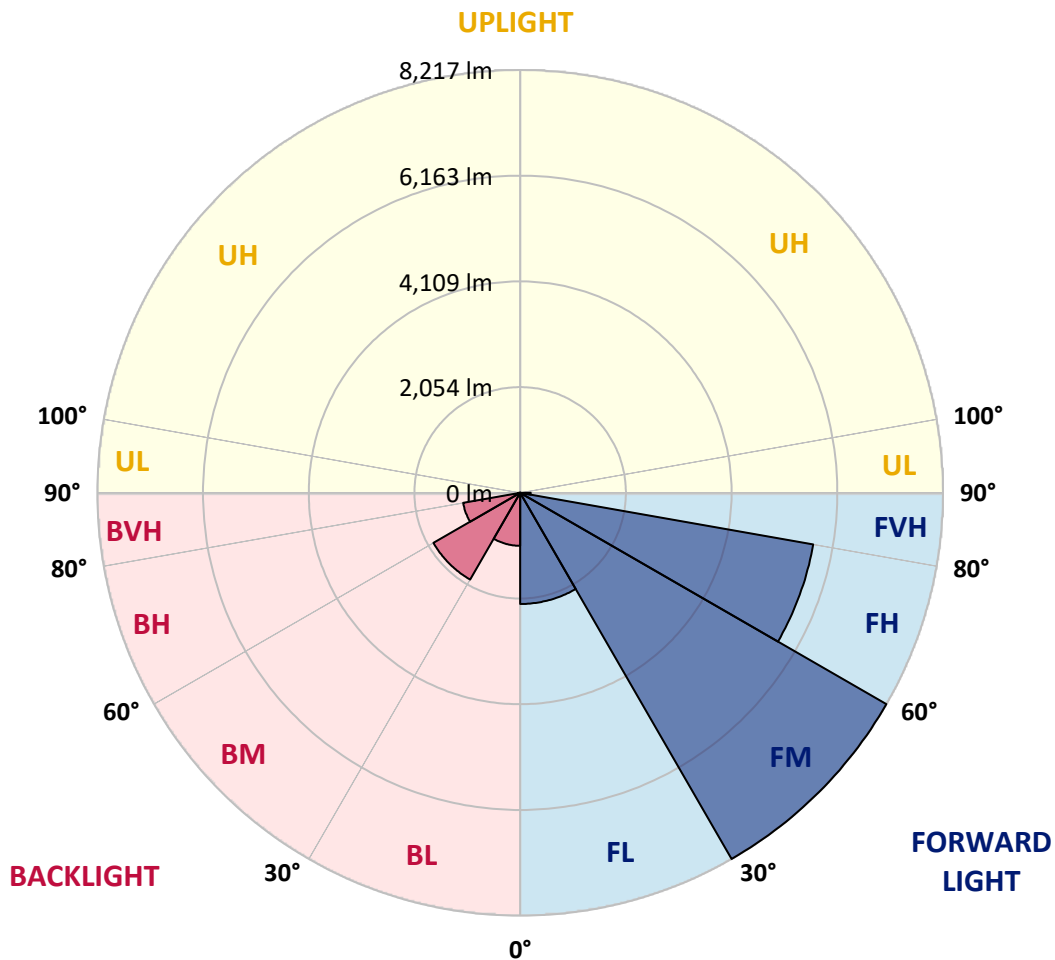
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2159.7	10.5			
FM (30°-60°)	8217.4	40.1			
FH (60°-80°)	5782.7	28.2			G3/7500
FVH (80°-90°)	205.6	1.0			G2/225
BL (0°-30°)	1030.1	5.0	B3/2500		
BM (30°-60°)	1946.3	9.5	B2/2500		
BH (60°-80°)	1125.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	43.0	0.2			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3603.8	3603.8	3603.8	3603.8	3603.8	3603.8	3603.8	3603.8	3603.8	3603.8	3603.8
2.5°	3996.8	3992.4	3949.5	3909.6	3883.0	3881.5	3812.1	3750.0	3722.0	3689.5	3617.1
5°	4203.6	4239.1	4191.8	4132.7	4085.4	4050.0	3989.4	3918.5	3888.9	3812.1	3702.8
7.5°	4503.6	4503.6	4459.3	4409.0	4354.4	4259.8	4156.4	4032.2	4017.5	3931.8	3788.4
10°	4648.4	4683.8	4626.2	4567.1	4506.5	4457.8	4317.4	4165.2	4128.3	3999.7	3822.4
12.5°	4850.8	4850.8	4819.8	4769.5	4700.1	4602.6	4512.4	4358.8	4296.7	4104.6	3883.0
15°	5041.4	5025.2	4998.6	4915.8	4880.4	4819.8	4701.6	4540.5	4528.7	4315.9	3976.1
17.5°	5190.6	5164.1	5138.9	5094.6	5051.8	5028.1	4943.9	4803.5	4754.8	4559.7	4151.9
20°	5267.5	5289.6	5229.1	5227.6	5240.9	5223.2	5167.0	5062.1	5041.4	4809.4	4330.7
22.5°	5354.7	5384.2	5369.4	5384.2	5424.1	5453.7	5450.7	5428.5	5396.0	5143.4	4618.8
25°	5373.9	5354.7	5416.7	5554.1	5654.6	5725.5	5864.4	5836.3	5827.5	5604.4	5010.4
27.5°	5314.8	5332.5	5430.0	5628.0	5886.6	6080.1	6193.9	6334.3	6303.2	6130.4	5481.7
30°	5279.3	5310.3	5438.9	5670.9	6018.1	6368.3	6592.8	6767.2	6793.8	6656.4	5945.7
32.5°	5156.7	5198.0	5331.0	5704.8	6146.6	6677.1	6956.3	7281.4	7269.6	7213.4	6510.1
35°	4967.5	5022.2	5226.1	5660.5	6291.4	6954.8	7325.7	7798.5	7807.4	7831.0	7046.5
37.5°	4815.3	4833.1	5065.1	5529.0	6349.0	7179.4	7670.0	8309.8	8453.1	8419.1	7655.2
40°	4571.6	4624.7	4875.9	5368.0	6343.1	7331.6	8020.2	8908.2	8985.0	9091.4	8292.0
42.5°	4271.6	4329.2	4570.1	5149.3	6260.4	7464.6	8357.0	9518.4	9626.3	9793.2	8875.7
45°	3983.5	4008.6	4234.7	4830.1	6099.3	7569.5	8685.1	10119.8	10285.3	10524.6	9463.7
47.5°	3624.4	3692.4	3945.1	4496.2	5743.3	7607.9	8927.4	10829.0	11133.4	11279.6	10134.5
50°	2788.1	2831.0	3540.2	4202.2	5356.1	7488.2	9242.1	11728.8	11920.9	12073.1	10814.2
52.5°	2457.2	2495.6	2770.4	3862.3	4924.7	7178.0	9434.2	12565.1	12797.1	12764.6	11496.8
55°	2318.3	2337.5	2455.7	3151.6	4531.7	6601.7	9568.6	13478.2	13603.8	13394.0	12173.6
57.5°	2157.2	2179.4	2268.0	2641.9	4088.4	5871.8	9456.3	14209.6	14256.9	13996.9	12776.4
60°	2013.9	2028.7	2161.7	2364.1	3606.7	5164.1	9172.7	14735.6	14867.1	14440.1	13426.5
62.5°	1891.3	1926.7	1996.2	2175.0	3269.8	4615.9	8454.6	14983.9	15170.0	14904.1	13858.0
65°	1770.1	1786.4	1866.2	2024.2	2907.8	4292.3	8043.8	14657.3	14874.5	14966.1	14123.9
67.5°	1604.6	1628.3	1706.6	1820.3	2426.1	3977.6	7084.9	14126.9	14437.2	14639.6	13965.8
70°	1411.1	1431.7	1511.5	1606.1	2025.7	3513.6	5979.7	13586.1	13790.0	13803.3	13259.6
72.5°	1186.5	1205.7	1285.5	1380.0	1681.5	2925.6	4686.8	12305.1	12761.6	13051.2	12074.6
75°	755.0	837.8	1035.8	1142.1	1384.5	2367.0	3343.7	9824.3	11024.0	11851.5	10449.3
77.5°	122.6	137.4	406.3	579.2	805.3	1604.6	1857.3	5443.3	6847.0	9904.0	8436.8
80°	93.1	104.9	147.8	393.0	517.1	998.8	731.4	1767.2	2130.6	4630.7	4726.7
82.5°	39.9	47.3	88.7	220.2	243.8	266.0	196.5	790.5	935.3	1408.1	1640.1
85°	13.3	17.7	41.4	69.4	76.8	59.1	42.8	313.2	385.6	675.2	625.0
87.5°	0.0	1.5	8.9	10.3	8.9	5.9	4.4	3.0	3.0	4.4	4.4
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°	3603.8	3603.8	3603.8	3603.8	3603.8	3603.8	3603.8	3603.8	3603.8	3603.8	3603.8
2.5°	3602.3	3552.0	3546.1	3485.5	3430.9	3368.8	3330.4	3317.1	3334.8	3352.6	3370.3
5°	3646.6	3569.8	3492.9	3367.3	3311.2	3243.2	3153.1	3098.4	3073.3	3095.5	3102.9
7.5°	3679.1	3580.1	3461.9	3290.5	3169.4	3039.3	2953.6	2862.0	2811.8	2820.7	2828.0
10°	3685.0	3575.7	3374.7	3209.2	3014.2	2835.4	2723.1	2680.3	2646.3	2616.7	2621.2
12.5°	3739.7	3578.6	3300.9	3099.9	2894.5	2664.0	2538.4	2483.8	2477.9	2417.3	2411.4
15°	3813.6	3643.6	3262.4	3000.9	2737.9	2520.7	2371.5	2274.0	2276.9	2245.9	2241.4
17.5°	3933.2	3707.2	3234.4	2885.7	2573.9	2374.4	2185.3	2096.6	2068.6	2059.7	2052.3
20°	4067.7	3800.3	3200.4	2783.7	2430.6	2198.6	1987.3	1897.2	1818.9	1795.2	1798.2
22.5°	4265.7	3922.9	3228.5	2706.9	2271.0	2027.2	1817.4	1641.6	1507.1	1471.6	1467.2
25°	4615.9	4165.2	3312.7	2640.4	2172.0	1860.2	1578.0	1331.3	1154.0	1115.6	1118.5
27.5°	5006.0	4484.4	3429.4	2612.3	2046.4	1675.5	1286.9	1012.1	846.6	802.3	805.3
30°	5468.4	4864.1	3606.7	2534.0	1912.0	1406.6	958.9	741.7	613.2	561.5	564.4
32.5°	5913.2	5243.8	3834.3	2522.2	1743.5	1056.5	693.0	539.3	434.4	396.0	400.4
35°	6403.7	5678.2	4073.6	2463.1	1467.2	758.0	486.1	373.8	317.7	305.9	304.4
37.5°	6959.3	6065.4	4250.9	2408.4	1097.8	533.4	332.4	288.1	280.7	264.5	264.5
40°	7474.9	6468.7	4383.9	2263.6	768.3	362.0	260.0	261.5	254.1	232.0	227.5
42.5°	7950.7	6885.4	4506.5	2031.6	520.1	246.8	233.5	237.9	240.8	215.7	209.8
45°	8490.0	7399.6	4479.9	1682.9	331.0	223.1	209.8	223.1	237.9	212.8	206.9
47.5°	9081.0	7776.4	4536.1	1214.5	233.5	211.3	195.0	212.8	224.6	208.3	199.5
50°	9748.9	8269.9	4366.2	706.3	214.2	199.5	187.6	195.0	212.8	203.9	193.6
52.5°	10360.6	8710.2	4134.2	345.7	202.4	187.6	175.8	181.7	199.5	189.1	192.1
55°	10876.3	9168.2	3662.9	246.8	195.0	174.4	169.9	171.4	181.7	168.4	177.3
57.5°	11508.7	9545.0	3184.1	230.5	189.1	165.5	167.0	155.1	158.1	150.7	141.8
60°	12071.6	9901.1	2534.0	212.8	180.3	169.9	150.7	134.5	125.6	121.2	119.7
62.5°	12634.6	10171.5	1867.6	193.6	171.4	153.7	133.0	115.2	100.5	94.6	93.1
65°	12847.3	10316.3	1275.1	177.3	161.1	140.4	118.2	93.1	76.8	70.9	66.5
67.5°	12689.2	9862.7	738.8	159.6	155.1	128.5	103.4	75.4	59.1	54.7	51.7
70°	11956.4	9150.5	394.5	144.8	135.9	113.8	91.6	62.1	47.3	41.4	39.9
72.5°	10696.0	7869.5	206.9	121.2	113.8	93.1	72.4	51.7	38.4	31.0	29.6
75°	9082.5	6177.7	144.8	88.7	78.3	72.4	54.7	41.4	31.0	23.6	22.2
77.5°	7169.1	4014.5	109.3	57.6	45.8	47.3	39.9	34.0	25.1	17.7	17.7
80°	3702.8	2086.3	82.7	38.4	26.6	28.1	28.1	25.1	19.2	13.3	13.3
82.5°	1468.7	768.3	57.6	22.2	16.3	17.7	16.3	16.3	13.3	8.9	8.9
85°	484.6	168.4	20.7	13.3	10.3	10.3	8.9	7.4	4.4	3.0	3.0
87.5°	4.4	4.4	5.9	7.4	7.4	5.9	4.4	1.5	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)