

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: P509612

Luminaire Tested: **VERD-G-CA2-130-750-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509612
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-CA2-130-750-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17523 lumens
Efficiency: N/A
Efficacy: 130.9 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

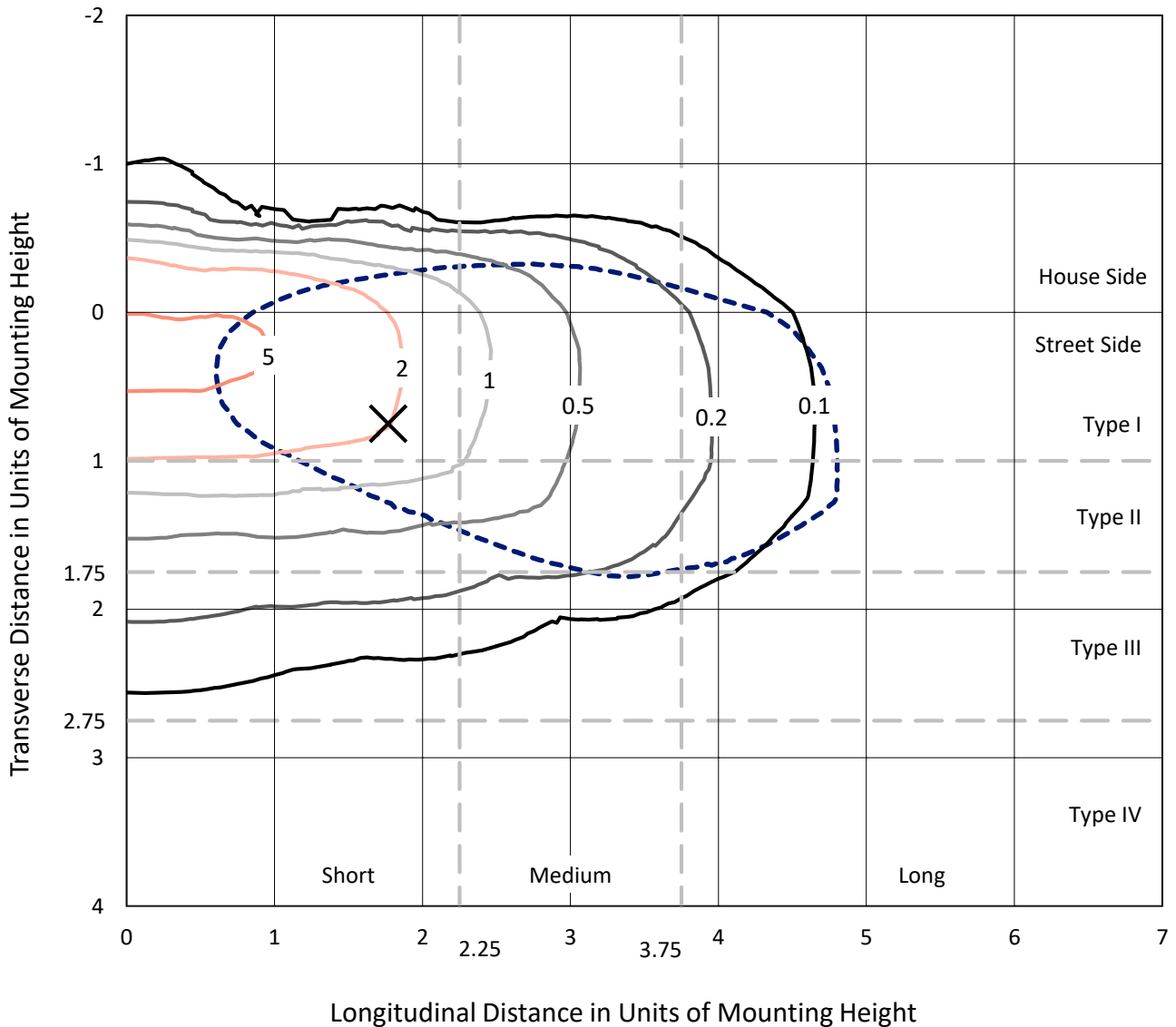
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509612
 CATALOG NUMBER: VERD-G-CA2-130-750-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

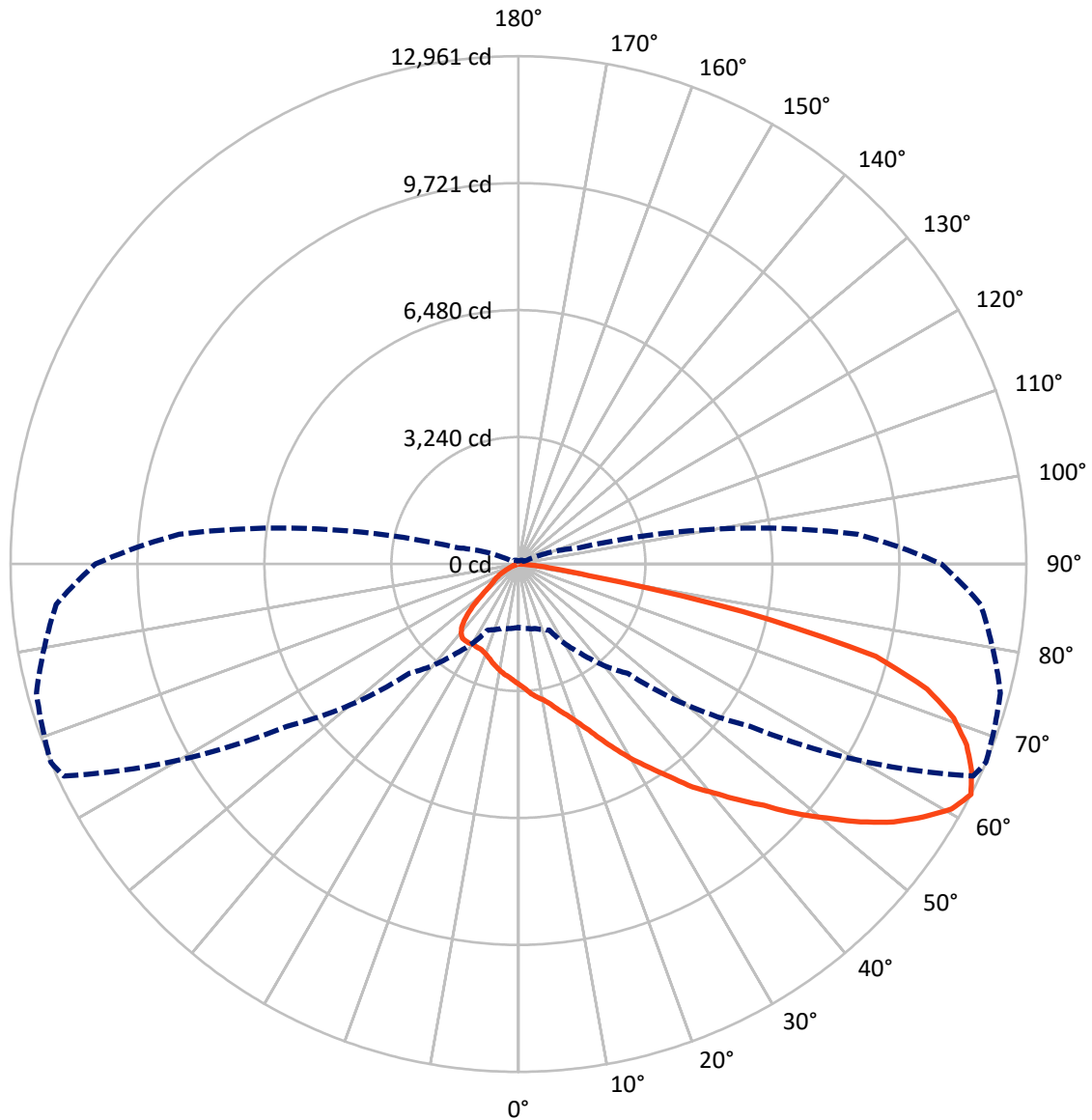
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

REPORT NUMBER: P509612
CATALOG NUMBER: VERD-G-CA2-130-750-U-T2-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: VERD-G-CA2-130-750-U-T2-HSS

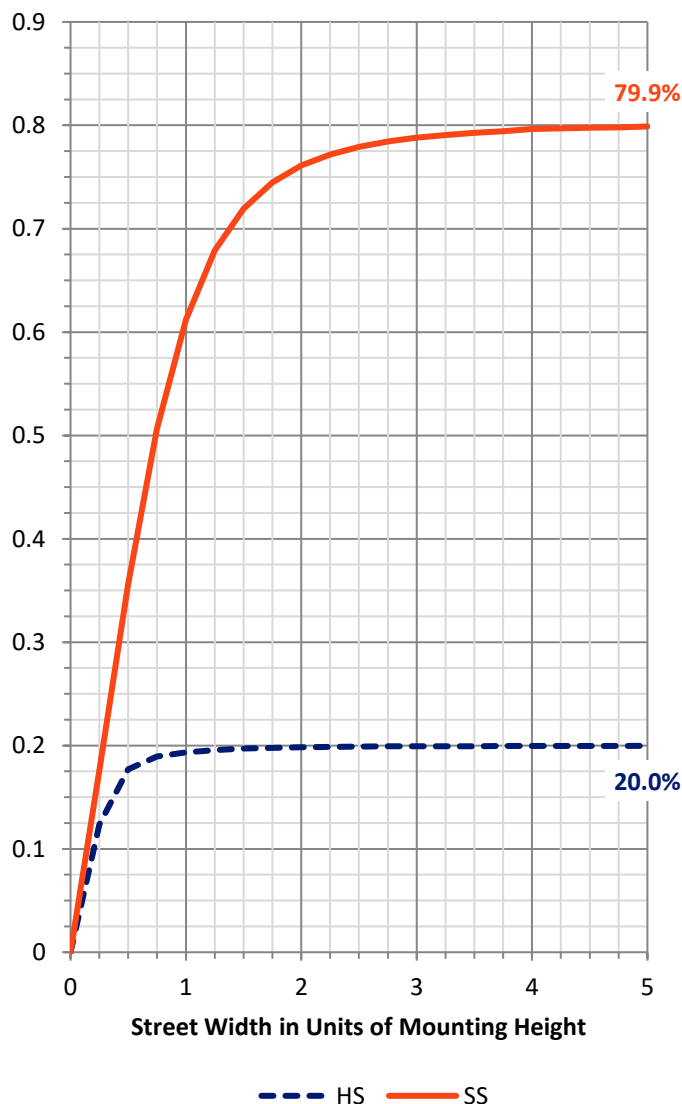
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3541.0	0.0	3541.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	13982.0	0.0	13982.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	17523.0	0.0	17523.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.5	1.7
10°-20°	897.3	5.1
20°-30°	1530.5	8.7
30°-40°	2242.2	12.8
40°-50°	2959.0	16.9
50°-60°	3482.3	19.9
60°-70°	3581.5	20.4
70°-80°	2320.4	13.2
80°-90°	212.4	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°	17523.0	100.0
0°-180°	17523.0	100.0



REPORT NUMBER: P509612

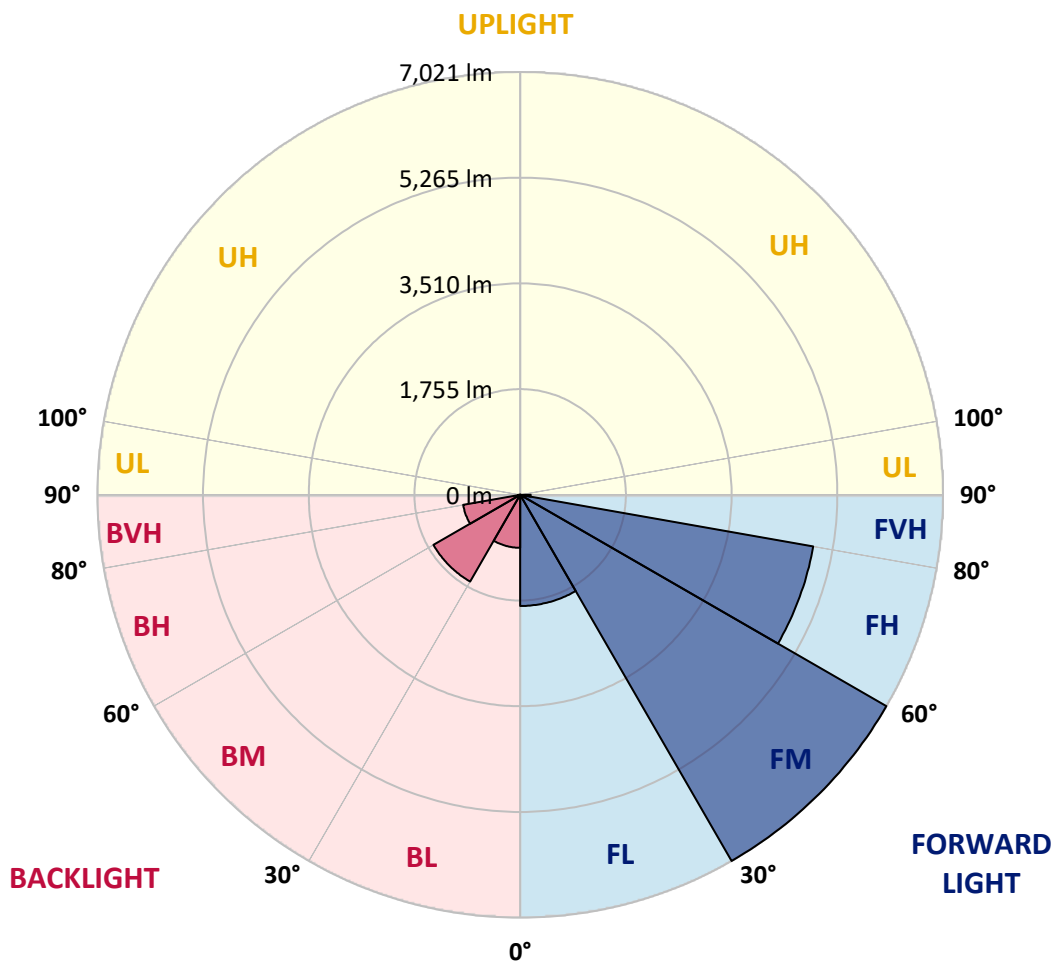
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1845.2	10.5			
FM	(30°-60°)	7020.6	40.1			
FH	(60°-80°)	4940.5	28.2			G2/5000
FVH	(80°-90°)	175.7	1.0			G2/225
BL	(0°-30°)	880.1	5.0	B2/1000		
BM	(30°-60°)	1662.8	9.5	B2/2500		
BH	(60°-80°)	961.4	5.5	B2/1000		G2/1000
BVH	(80°-90°)	36.7	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: P509612

CATALOG NUMBER: VERD-G-CA2-130-750-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3078.9	3078.9	3078.9	3078.9	3078.9	3078.9	3078.9	3078.9	3078.9	3078.9	3078.9
2.5°	3414.7	3410.9	3374.3	3340.2	3317.5	3316.2	3256.9	3203.9	3179.9	3152.1	3090.3
5°	3591.4	3621.7	3581.3	3530.8	3490.4	3460.2	3408.4	3347.8	3322.6	3256.9	3163.5
7.5°	3847.7	3847.7	3809.8	3766.9	3720.2	3639.4	3551.0	3445.0	3432.4	3359.2	3236.7
10°	3971.4	4001.7	3952.5	3902.0	3850.2	3808.6	3688.6	3558.6	3527.1	3417.2	3265.7
12.5°	4144.4	4144.4	4117.8	4074.9	4015.6	3932.3	3855.3	3724.0	3671.0	3506.9	3317.5
15°	4307.2	4293.3	4270.6	4199.9	4169.6	4117.8	4016.9	3879.3	3869.2	3687.4	3397.0
17.5°	4434.7	4412.0	4390.5	4352.6	4316.0	4295.8	4223.9	4104.0	4062.3	3895.7	3547.3
20°	4500.3	4519.3	4467.5	4466.3	4477.6	4462.5	4414.5	4324.9	4307.2	4109.0	3700.0
22.5°	4574.8	4600.1	4587.4	4600.1	4634.2	4659.4	4656.9	4637.9	4610.2	4394.3	3946.2
25°	4591.2	4574.8	4627.8	4745.2	4831.1	4891.7	5010.3	4986.4	4978.8	4788.2	4280.7
27.5°	4540.7	4555.9	4639.2	4808.4	5029.3	5194.6	5291.8	5411.8	5385.3	5237.6	4683.4
30°	4510.4	4537.0	4646.8	4845.0	5141.6	5440.8	5632.7	5781.6	5804.4	5687.0	5079.8
32.5°	4405.7	4441.0	4554.6	4874.0	5251.5	5704.6	5943.2	6221.0	6210.9	6162.9	5562.0
35°	4244.1	4290.8	4465.0	4836.1	5375.2	5942.0	6258.8	6662.8	6670.4	6690.6	6020.2
37.5°	4114.1	4129.2	4327.4	4723.8	5424.4	6133.8	6553.0	7099.6	7222.0	7193.0	6540.3
40°	3905.8	3951.2	4165.8	4586.2	5419.3	6263.9	6852.1	7610.8	7676.5	7767.4	7084.4
42.5°	3649.5	3698.7	3904.5	4399.4	5348.7	6377.5	7140.0	8132.2	8224.3	8367.0	7583.0
45°	3403.3	3424.8	3617.9	4126.7	5211.1	6467.1	7420.2	8646.0	8787.3	8991.9	8085.5
47.5°	3096.6	3154.7	3370.5	3841.4	4906.8	6499.9	7627.2	9251.9	9511.9	9636.9	8658.6
50°	2382.1	2418.7	3024.6	3590.2	4576.1	6397.7	7896.1	10020.7	10184.8	10314.8	9239.3
52.5°	2099.3	2132.1	2366.9	3299.8	4207.5	6132.6	8060.2	10735.2	10933.4	10905.6	9822.5
55°	1980.7	1997.1	2098.1	2692.6	3871.7	5640.3	8175.1	11515.3	11622.6	11443.4	10400.7
57.5°	1843.1	1862.0	1937.7	2257.1	3493.0	5016.7	8079.2	12140.2	12180.6	11958.4	10915.7
60°	1720.6	1733.2	1846.8	2019.8	3081.4	4412.0	7836.8	12589.6	12702.0	12337.1	11471.1
62.5°	1615.8	1646.1	1705.5	1858.2	2793.6	3943.6	7223.3	12801.7	12960.7	12733.5	11839.8
65°	1512.3	1526.2	1594.4	1729.4	2484.3	3667.2	6872.3	12522.7	12708.3	12786.5	12067.0
67.5°	1370.9	1391.1	1458.0	1555.2	2072.8	3398.3	6053.1	12069.5	12334.6	12507.5	11931.9
70°	1205.6	1223.2	1291.4	1372.2	1730.7	3001.9	5108.8	11607.5	11781.7	11793.0	11328.5
72.5°	1013.7	1030.1	1098.3	1179.1	1436.6	2499.5	4004.2	10513.0	10903.1	11150.5	10316.1
75°	645.1	715.8	884.9	975.8	1182.8	2022.3	2856.7	8393.5	9418.5	10125.5	8927.5
77.5°	104.8	117.4	347.2	494.8	688.0	1370.9	1586.8	4650.6	5849.8	8461.7	7208.1
80°	79.5	89.6	126.2	335.8	441.8	853.4	624.9	1509.8	1820.3	3956.3	4038.3
82.5°	34.1	40.4	75.7	188.1	208.3	227.2	167.9	675.4	799.1	1203.0	1401.2
85°	11.4	15.1	35.3	59.3	65.6	50.5	36.6	267.6	329.5	576.9	534.0
87.5°	0.0	1.3	7.6	8.8	7.6	5.0	3.8	2.5	2.5	3.8	3.8
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: P509612
 CATALOG NUMBER: VERD-G-CA2-130-750-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3078.9	3078.9	3078.9	3078.9	3078.9	3078.9	3078.9	3078.9	3078.9	3078.9	3078.9
2.5°	3077.7	3034.7	3029.7	2977.9	2931.2	2878.2	2845.4	2834.0	2849.2	2864.3	2879.5
5°	3115.5	3049.9	2984.2	2876.9	2829.0	2770.9	2693.9	2647.2	2625.7	2644.7	2651.0
7.5°	3143.3	3058.7	2957.7	2811.3	2707.8	2596.7	2523.5	2445.2	2402.3	2409.9	2416.2
10°	3148.3	3054.9	2883.2	2741.9	2575.2	2422.5	2326.5	2289.9	2260.9	2235.7	2239.4
12.5°	3195.1	3057.5	2820.1	2648.4	2473.0	2276.1	2168.7	2122.0	2117.0	2065.2	2060.2
15°	3258.2	3113.0	2787.3	2563.9	2339.2	2153.6	2026.1	1942.8	1945.3	1918.8	1915.0
17.5°	3360.4	3167.3	2763.3	2465.4	2199.0	2028.6	1867.0	1791.3	1767.3	1759.7	1753.4
20°	3475.3	3246.8	2734.3	2378.3	2076.6	1878.4	1697.9	1620.9	1554.0	1533.8	1536.3
22.5°	3644.5	3351.6	2758.3	2312.7	1940.3	1732.0	1552.7	1402.5	1287.6	1257.3	1253.5
25°	3943.6	3558.6	2830.2	2255.9	1855.7	1589.3	1348.2	1137.4	985.9	953.1	955.6
27.5°	4276.9	3831.3	2930.0	2231.9	1748.4	1431.5	1099.5	864.7	723.3	685.5	688.0
30°	4672.0	4155.7	3081.4	2165.0	1633.5	1201.8	819.3	633.7	523.9	479.7	482.2
32.5°	5052.0	4480.1	3275.8	2154.9	1489.6	902.6	592.1	460.8	371.1	338.3	342.1
35°	5471.1	4851.3	3480.4	2104.4	1253.5	647.6	415.3	319.4	271.4	261.3	260.0
37.5°	5945.8	5182.0	3631.8	2057.7	937.9	455.7	284.0	246.2	239.9	226.0	226.0
40°	6386.3	5526.6	3745.4	1933.9	656.4	309.3	222.2	223.4	217.1	198.2	194.4
42.5°	6792.8	5882.6	3850.2	1735.8	444.4	210.8	199.5	203.2	205.8	184.3	179.3
45°	7253.6	6321.9	3827.5	1437.8	282.8	190.6	179.3	190.6	203.2	181.8	176.7
47.5°	7758.5	6643.8	3875.5	1037.7	199.5	180.5	166.6	181.8	191.9	178.0	170.4
50°	8329.1	7065.5	3730.3	603.4	183.0	170.4	160.3	166.6	181.8	174.2	165.4
52.5°	8851.7	7441.7	3532.1	295.4	172.9	160.3	150.2	155.3	170.4	161.6	164.1
55°	9292.3	7833.0	3129.4	210.8	166.6	149.0	145.2	146.4	155.3	143.9	151.5
57.5°	9832.6	8154.9	2720.4	196.9	161.6	141.4	142.6	132.5	135.1	128.8	121.2
60°	10313.6	8459.1	2165.0	181.8	154.0	145.2	128.8	114.9	107.3	103.5	102.3
62.5°	10794.5	8690.1	1595.6	165.4	146.4	131.3	113.6	98.5	85.8	80.8	79.5
65°	10976.3	8813.9	1089.4	151.5	137.6	119.9	101.0	79.5	65.6	60.6	56.8
67.5°	10841.2	8426.3	631.2	136.3	132.5	109.8	88.4	64.4	50.5	46.7	44.2
70°	10215.1	7817.8	337.1	123.7	116.1	97.2	78.3	53.0	40.4	35.3	34.1
72.5°	9138.3	6723.4	176.7	103.5	97.2	79.5	61.9	44.2	32.8	26.5	25.2
75°	7759.8	5278.0	123.7	75.7	66.9	61.9	46.7	35.3	26.5	20.2	18.9
77.5°	6125.0	3429.9	93.4	49.2	39.1	40.4	34.1	29.0	21.5	15.1	15.1
80°	3163.5	1782.5	70.7	32.8	22.7	24.0	24.0	21.5	16.4	11.4	11.4
82.5°	1254.8	656.4	49.2	18.9	13.9	15.1	13.9	13.9	11.4	7.6	7.6
85°	414.1	143.9	17.7	11.4	8.8	8.8	7.6	6.3	3.8	2.5	2.5
87.5°	3.8	3.8	5.0	6.3	6.3	5.0	3.8	1.3	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)