

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: P509516

Luminaire Tested: **VERD-G-CA2-110-750-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509516
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-CA2-110-750-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15367 lumens
Efficiency: N/A
Efficacy: 135.8 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

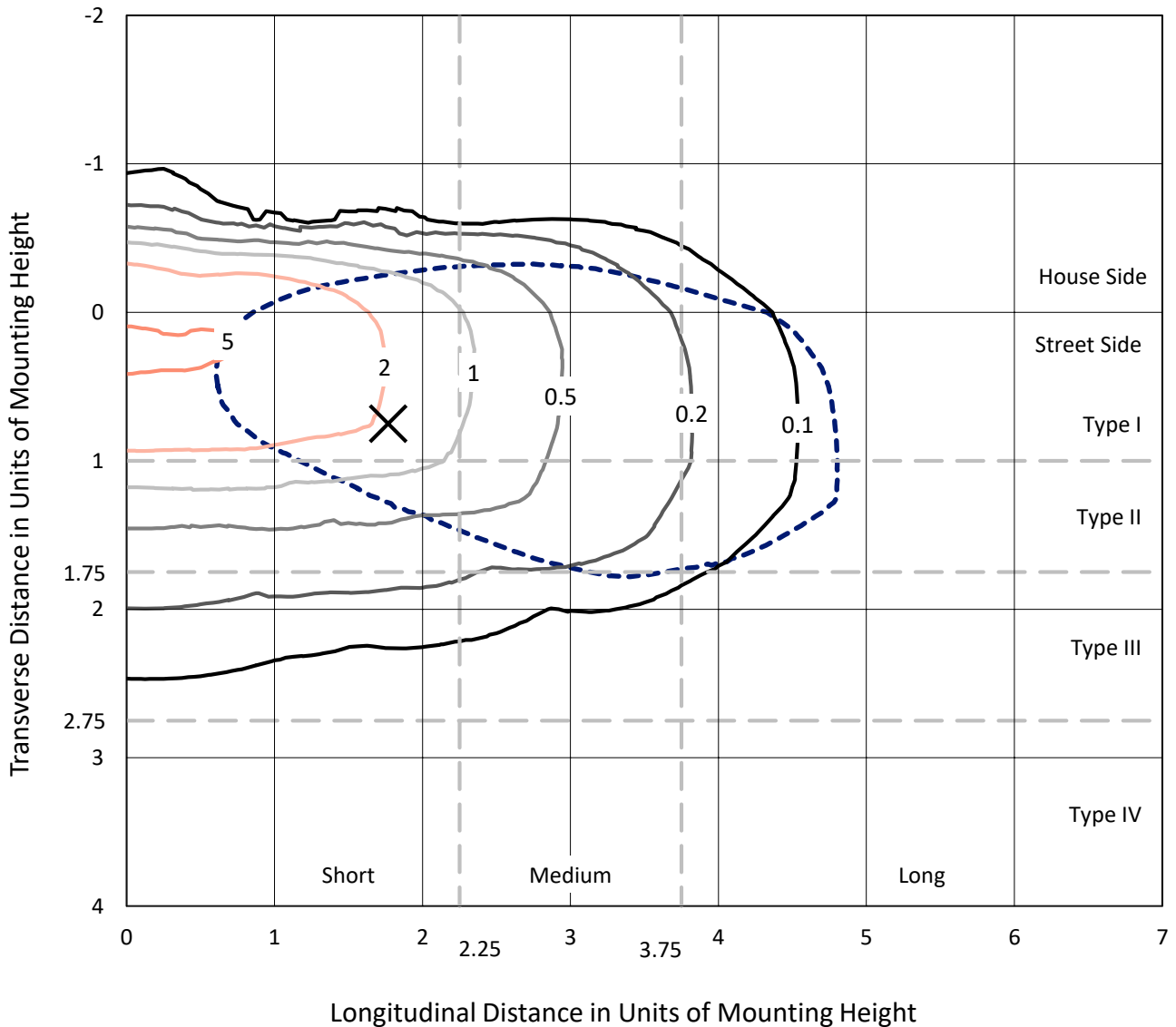
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509516
 CATALOG NUMBER: VERD-G-CA2-110-750-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

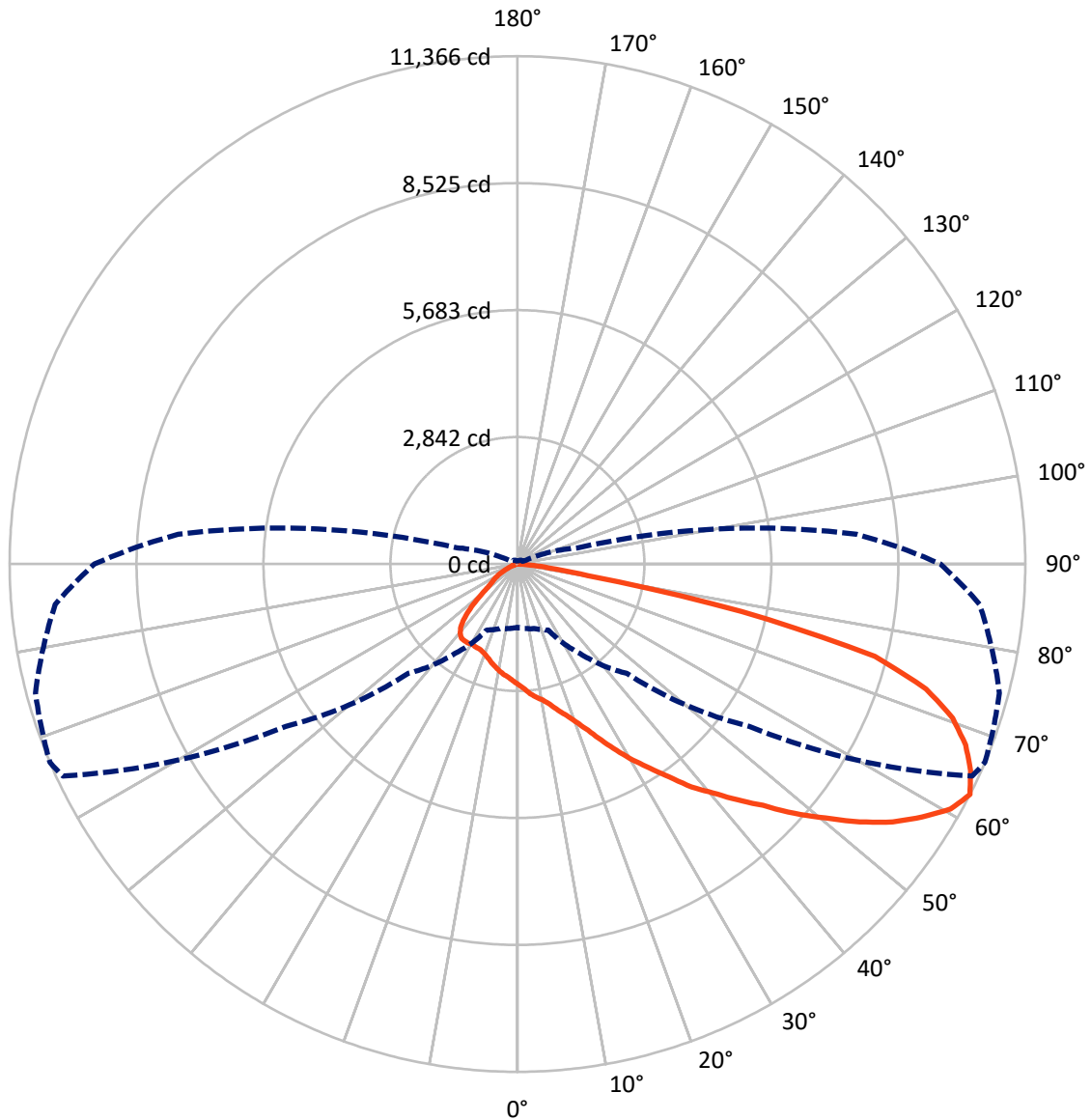
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

REPORT NUMBER: P509516
CATALOG NUMBER: VERD-G-CA2-110-750-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-CA2-110-750-U-T2-HSS

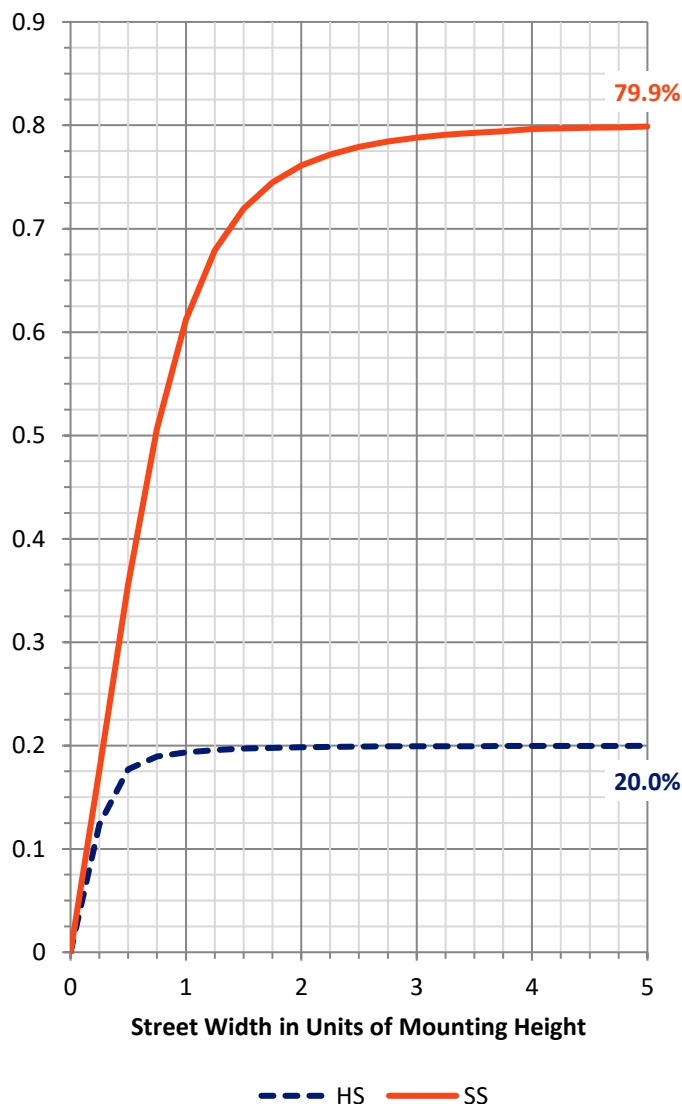
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3105.3	0.0	3105.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	12261.7	0.0	12261.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	15367.0	0.0	15367.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	1.7
10°-20°	786.9	5.1
20°-30°	1342.2	8.7
30°-40°	1966.3	12.8
40°-50°	2594.9	16.9
50°-60°	3053.8	19.9
60°-70°	3140.9	20.4
70°-80°	2034.9	13.2
80°-90°	186.3	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°	15367.0	100.0
0°-180°	15367.0	100.0



REPORT NUMBER: P509516

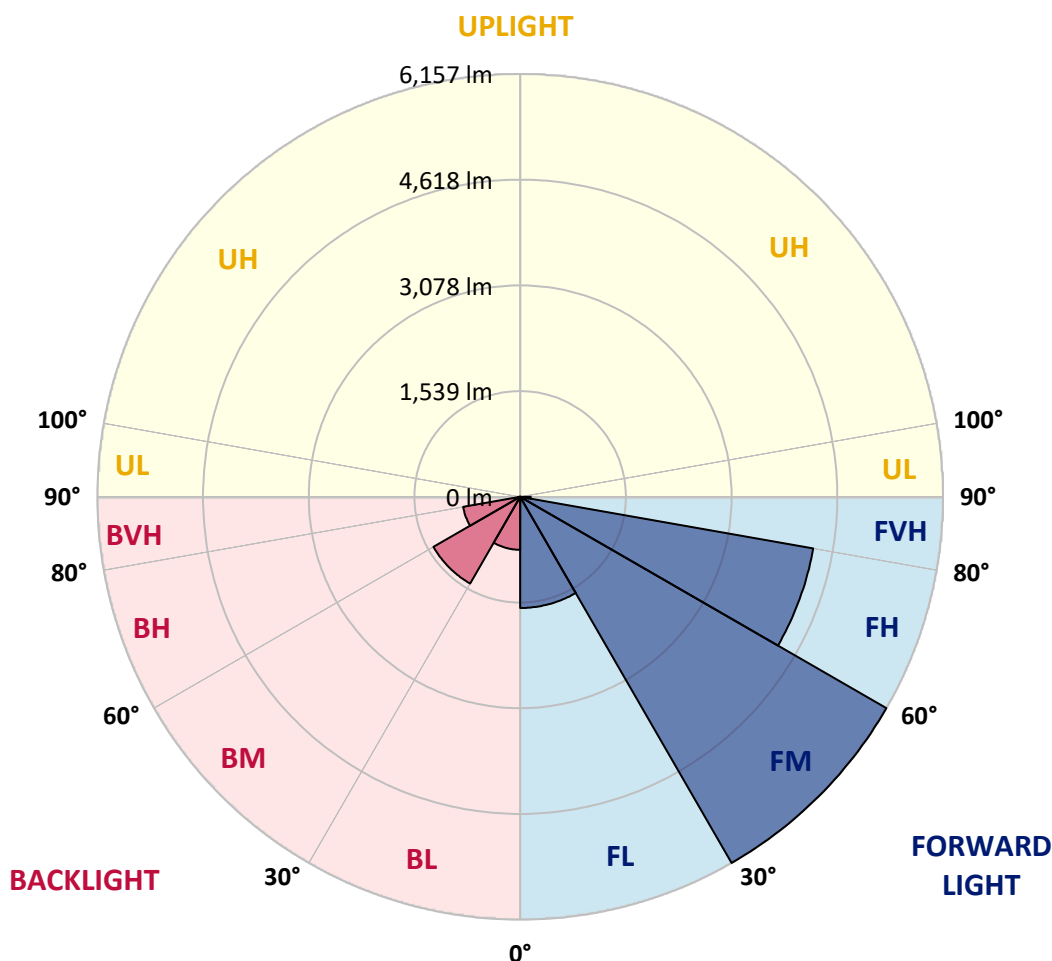
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.1	10.5			
FM (30°-60°)	6156.8	40.1			
FH (60°-80°)	4332.7	28.2			G2/5000
FVH (80°-90°)	154.0	1.0			G2/225
BL (0°-30°)	771.8	5.0	B2/1000		
BM (30°-60°)	1458.2	9.5	B2/2500		
BH (60°-80°)	843.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	32.2	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: P509516

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2700.1	2700.1	2700.1	2700.1	2700.1	2700.1	2700.1	2700.1	2700.1	2700.1	2700.1
2.5°	2994.6	2991.2	2959.1	2929.3	2909.3	2908.2	2856.2	2809.7	2788.7	2764.3	2710.1
5°	3149.6	3176.1	3140.7	3096.4	3061.0	3034.4	2989.0	2935.9	2913.8	2856.2	2774.3
7.5°	3374.3	3374.3	3341.1	3303.4	3262.5	3191.6	3114.1	3021.1	3010.1	2945.9	2838.5
10°	3482.8	3509.3	3466.2	3421.9	3376.5	3340.0	3234.8	3120.8	3093.1	2996.8	2863.9
12.5°	3634.4	3634.4	3611.2	3573.6	3521.5	3448.5	3380.9	3265.8	3219.3	3075.4	2909.3
15°	3777.3	3765.1	3745.1	3683.2	3656.6	3611.2	3522.6	3402.0	3393.1	3233.7	2979.1
17.5°	3889.1	3869.1	3850.3	3817.1	3785.0	3767.3	3704.2	3599.0	3562.5	3416.4	3110.8
20°	3946.6	3963.2	3917.8	3916.7	3926.7	3913.4	3871.3	3792.7	3777.3	3603.4	3244.8
22.5°	4011.9	4034.1	4023.0	4034.1	4064.0	4086.1	4083.9	4067.3	4042.9	3853.6	3460.6
25°	4026.3	4011.9	4058.4	4161.4	4236.7	4289.8	4393.9	4372.8	4366.2	4199.0	3754.0
27.5°	3982.1	3995.3	4068.4	4216.7	4410.5	4555.5	4640.7	4745.9	4722.7	4593.1	4107.2
30°	3955.5	3978.7	4075.0	4248.9	4509.0	4771.4	4939.7	5070.3	5090.2	4987.3	4454.8
32.5°	3863.6	3894.6	3994.2	4274.3	4605.3	5002.8	5212.0	5455.5	5446.7	5404.6	4877.7
35°	3721.9	3762.9	3915.6	4241.1	4713.8	5210.9	5488.7	5843.0	5849.6	5867.4	5279.5
37.5°	3607.9	3621.2	3795.0	4142.6	4757.0	5379.2	5746.7	6226.0	6333.4	6308.0	5735.6
40°	3425.2	3465.1	3653.3	4021.9	4752.6	5493.2	6009.1	6674.4	6732.0	6811.7	6212.8
42.5°	3200.5	3243.7	3424.1	3858.1	4690.6	5592.8	6261.5	7131.6	7212.4	7337.5	6650.0
45°	2984.6	3003.4	3172.8	3618.9	4569.9	5671.4	6507.2	7582.2	7706.2	7885.5	7090.6
47.5°	2715.6	2766.5	2955.8	3368.7	4303.1	5700.2	6688.8	8113.6	8341.6	8451.2	7593.2
50°	2089.0	2121.1	2652.5	3148.4	4013.1	5610.5	6924.6	8787.8	8931.7	9045.7	8102.5
52.5°	1841.0	1869.8	2075.7	2893.8	3689.8	5378.0	7068.5	9414.3	9588.2	9563.8	8613.9
55°	1737.0	1751.4	1839.9	2361.3	3395.3	4946.3	7169.2	10098.5	10192.6	10035.4	9121.0
57.5°	1616.3	1632.9	1699.3	1979.4	3063.2	4399.4	7085.1	10646.5	10681.9	10487.1	9572.7
60°	1508.9	1520.0	1619.6	1771.3	2702.3	3869.1	6872.6	11040.6	11139.1	10819.2	10059.8
62.5°	1417.0	1443.6	1495.6	1629.6	2449.9	3458.4	6334.5	11226.6	11366.1	11166.8	10383.0
65°	1326.2	1338.4	1398.2	1516.7	2178.7	3216.0	6026.8	10981.9	11144.7	11213.3	10582.3
67.5°	1202.3	1220.0	1278.6	1363.9	1817.8	2980.2	5308.3	10584.5	10817.0	10968.6	10463.8
70°	1057.2	1072.7	1132.5	1203.4	1517.8	2632.6	4480.2	10179.3	10332.1	10342.1	9934.7
72.5°	889.0	903.4	963.1	1034.0	1259.8	2192.0	3511.6	9219.5	9561.6	9778.6	9046.8
75°	565.7	627.7	776.0	855.7	1037.3	1773.5	2505.3	7360.8	8259.7	8879.6	7829.0
77.5°	91.9	103.0	304.4	434.0	603.3	1202.3	1391.6	4078.4	5130.1	7420.5	6321.2
80°	69.7	78.6	110.7	294.5	387.5	748.4	548.0	1324.0	1596.4	3469.5	3541.4
82.5°	29.9	35.4	66.4	165.0	182.7	199.3	147.2	592.3	700.8	1055.0	1228.8
85°	10.0	13.3	31.0	52.0	57.6	44.3	32.1	234.7	288.9	505.9	468.3
87.5°	0.0	1.1	6.6	7.7	6.6	4.4	3.3	2.2	2.2	3.3	3.3
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: P509516
 CATALOG NUMBER: VERD-G-CA2-110-750-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2700.1	2700.1	2700.1	2700.1	2700.1	2700.1	2700.1	2700.1	2700.1	2700.1	2700.1
2.5°	2699.0	2661.3	2656.9	2611.5	2570.6	2524.1	2495.3	2485.3	2498.6	2511.9	2525.2
5°	2732.2	2674.6	2617.1	2523.0	2480.9	2430.0	2362.4	2321.5	2302.7	2319.3	2324.8
7.5°	2756.6	2682.4	2593.8	2465.4	2374.6	2277.2	2213.0	2144.4	2106.7	2113.4	2118.9
10°	2761.0	2679.1	2528.5	2404.5	2258.4	2124.4	2040.3	2008.2	1982.7	1960.6	1963.9
12.5°	2801.9	2681.3	2473.1	2322.6	2168.7	1996.0	1901.9	1860.9	1856.5	1811.1	1806.7
15°	2857.3	2730.0	2444.4	2248.4	2051.4	1888.6	1776.8	1703.7	1706.0	1682.7	1679.4
17.5°	2947.0	2777.6	2423.3	2162.1	1928.5	1779.0	1637.3	1570.9	1549.9	1543.2	1537.7
20°	3047.7	2847.3	2397.9	2085.7	1821.1	1647.3	1489.0	1421.5	1362.8	1345.1	1347.3
22.5°	3196.1	2939.2	2418.9	2028.1	1701.5	1518.9	1361.7	1229.9	1129.2	1102.6	1099.3
25°	3458.4	3120.8	2482.0	1978.3	1627.4	1393.8	1182.3	997.5	864.6	835.8	838.0
27.5°	3750.7	3359.9	2569.5	1957.3	1533.3	1255.4	964.2	758.3	634.3	601.1	603.3
30°	4097.2	3644.4	2702.3	1898.6	1432.5	1053.9	718.5	555.7	459.4	420.7	422.9
32.5°	4430.4	3928.9	2872.8	1889.7	1306.3	791.5	519.2	404.1	325.5	296.7	300.0
35°	4797.9	4254.4	3052.1	1845.5	1099.3	567.9	364.2	280.1	238.0	229.2	228.1
37.5°	5214.2	4544.4	3185.0	1804.5	822.5	399.6	249.1	215.9	210.3	198.2	198.2
40°	5600.6	4846.7	3284.6	1696.0	575.7	271.2	194.8	195.9	190.4	173.8	170.5
42.5°	5957.0	5158.8	3376.5	1522.2	389.7	184.9	174.9	178.2	180.4	161.6	157.2
45°	6361.1	5544.1	3356.6	1260.9	248.0	167.2	157.2	167.2	178.2	159.4	155.0
47.5°	6803.9	5826.4	3398.6	910.0	174.9	158.3	146.1	159.4	168.3	156.1	149.5
50°	7304.3	6196.2	3271.3	529.2	160.5	149.5	140.6	146.1	159.4	152.8	145.0
52.5°	7762.6	6526.1	3097.5	259.0	151.7	140.6	131.7	136.2	149.5	141.7	143.9
55°	8149.0	6869.2	2744.4	184.9	146.1	130.6	127.3	128.4	136.2	126.2	132.8
57.5°	8622.8	7151.5	2385.7	172.7	141.7	124.0	125.1	116.2	118.5	112.9	106.3
60°	9044.6	7418.3	1898.6	159.4	135.1	127.3	112.9	100.7	94.1	90.8	89.7
62.5°	9466.4	7620.9	1399.3	145.0	128.4	115.1	99.6	86.3	75.3	70.9	69.7
65°	9625.8	7729.4	955.4	132.8	120.7	105.2	88.6	69.7	57.6	53.1	49.8
67.5°	9507.3	7389.6	553.5	119.6	116.2	96.3	77.5	56.5	44.3	41.0	38.7
70°	8958.2	6856.0	295.6	108.5	101.8	85.2	68.6	46.5	35.4	31.0	29.9
72.5°	8013.9	5896.1	155.0	90.8	85.2	69.7	54.2	38.7	28.8	23.2	22.1
75°	6805.0	4628.6	108.5	66.4	58.7	54.2	41.0	31.0	23.2	17.7	16.6
77.5°	5371.4	3007.9	81.9	43.2	34.3	35.4	29.9	25.5	18.8	13.3	13.3
80°	2774.3	1563.2	62.0	28.8	19.9	21.0	21.0	18.8	14.4	10.0	10.0
82.5°	1100.4	575.7	43.2	16.6	12.2	13.3	12.2	12.2	10.0	6.6	6.6
85°	363.1	126.2	15.5	10.0	7.7	7.7	6.6	5.5	3.3	2.2	2.2
87.5°	3.3	3.3	4.4	5.5	5.5	4.4	3.3	1.1	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)