

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: P553576

Luminaire Tested: **VERD-G-CA2-150-750-U-T2-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553576
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-CA2-150-750-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1380mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20232 lumens
Efficiency: N/A
Efficacy: 132.9 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

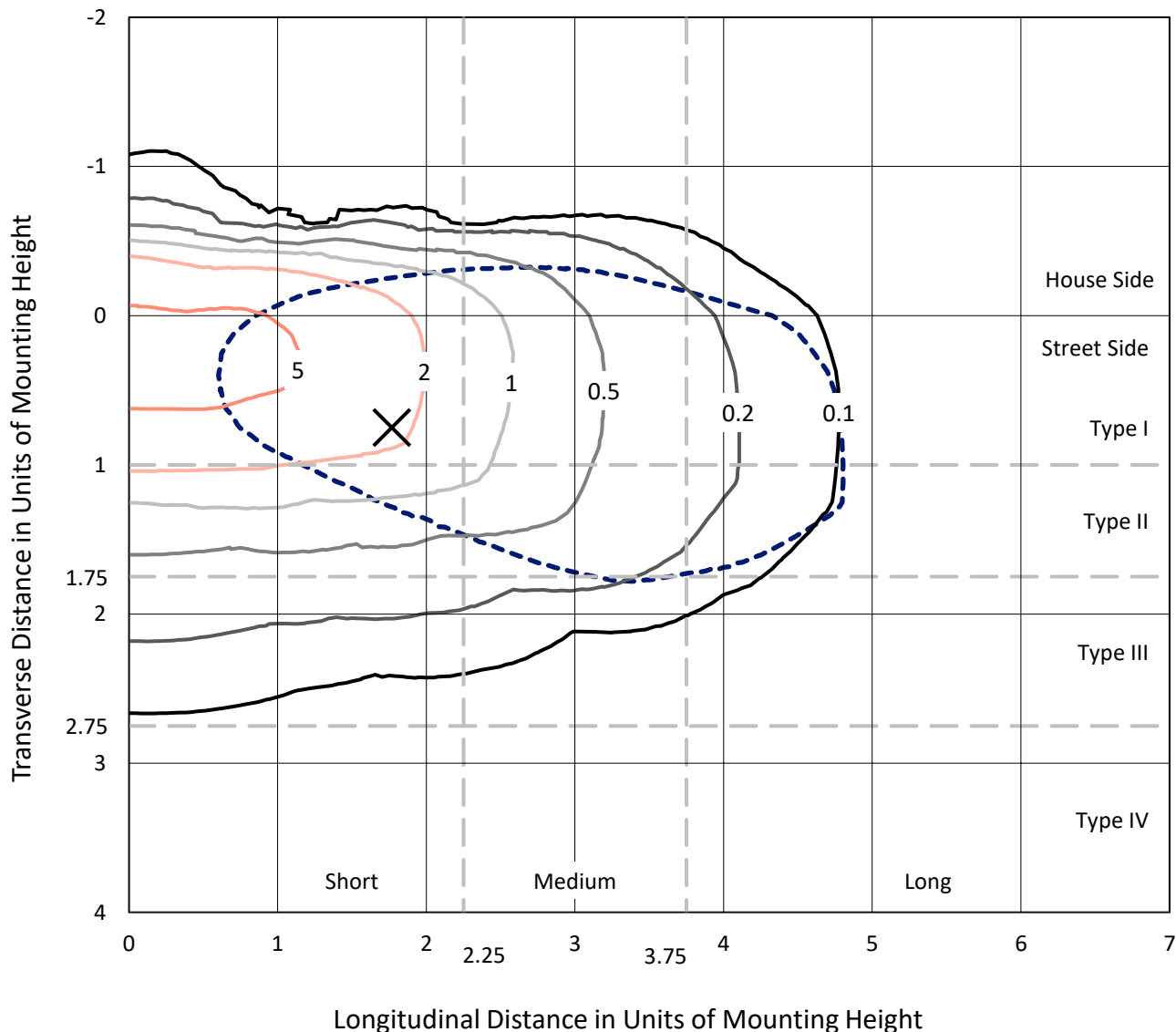
Input Watts (W): 152.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

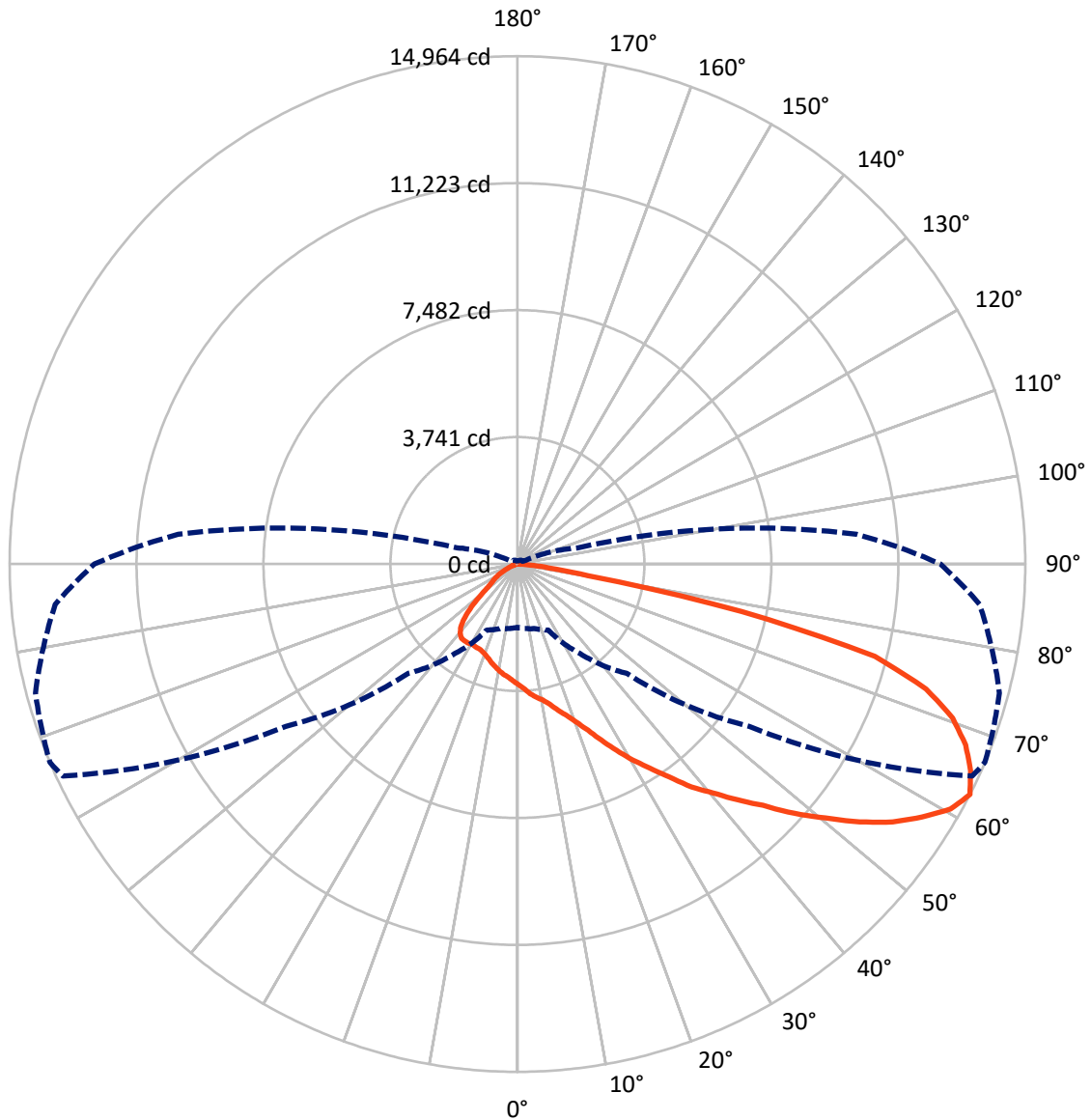
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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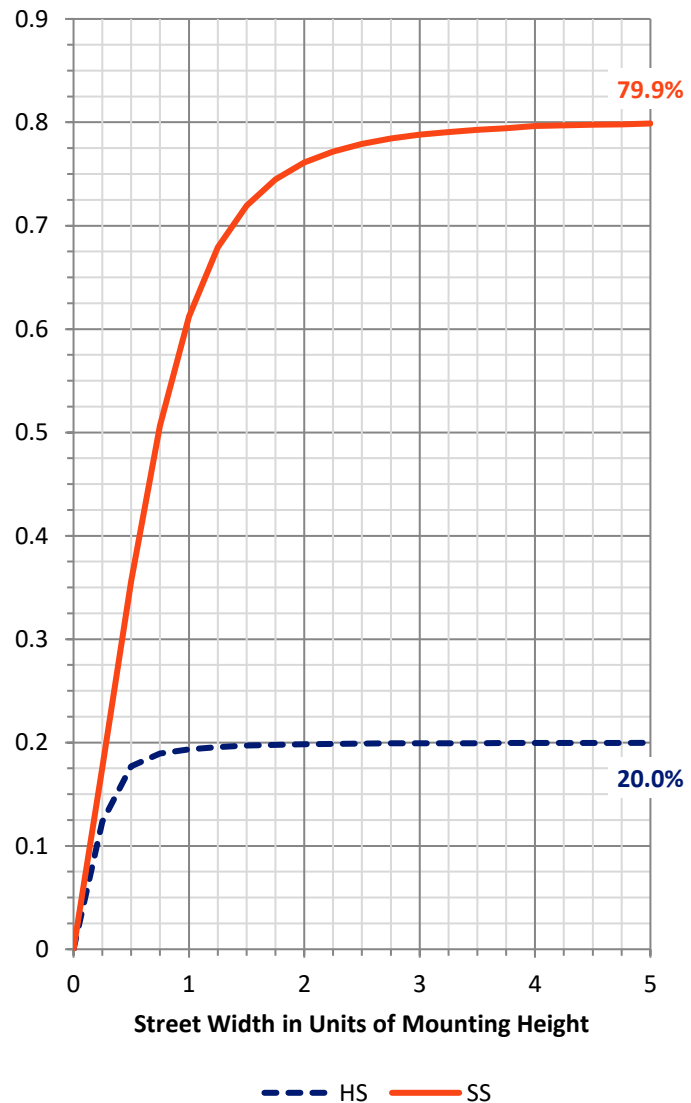
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4088.4	0.0	4088.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	16143.6	0.0	16143.6
	% Fixture	79.8	0.0	79.8
Total	Lumens	20232.0	0.0	20232.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.5	1.7
10°-20°	1036.0	5.1
20°-30°	1767.1	8.7
30°-40°	2588.8	12.8
40°-50°	3416.5	16.9
50°-60°	4020.6	19.9
60°-70°	4135.2	20.4
70°-80°	2679.1	13.2
80°-90°	245.2	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°	20232.0	100.0
0°-180°	20232.0	100.0



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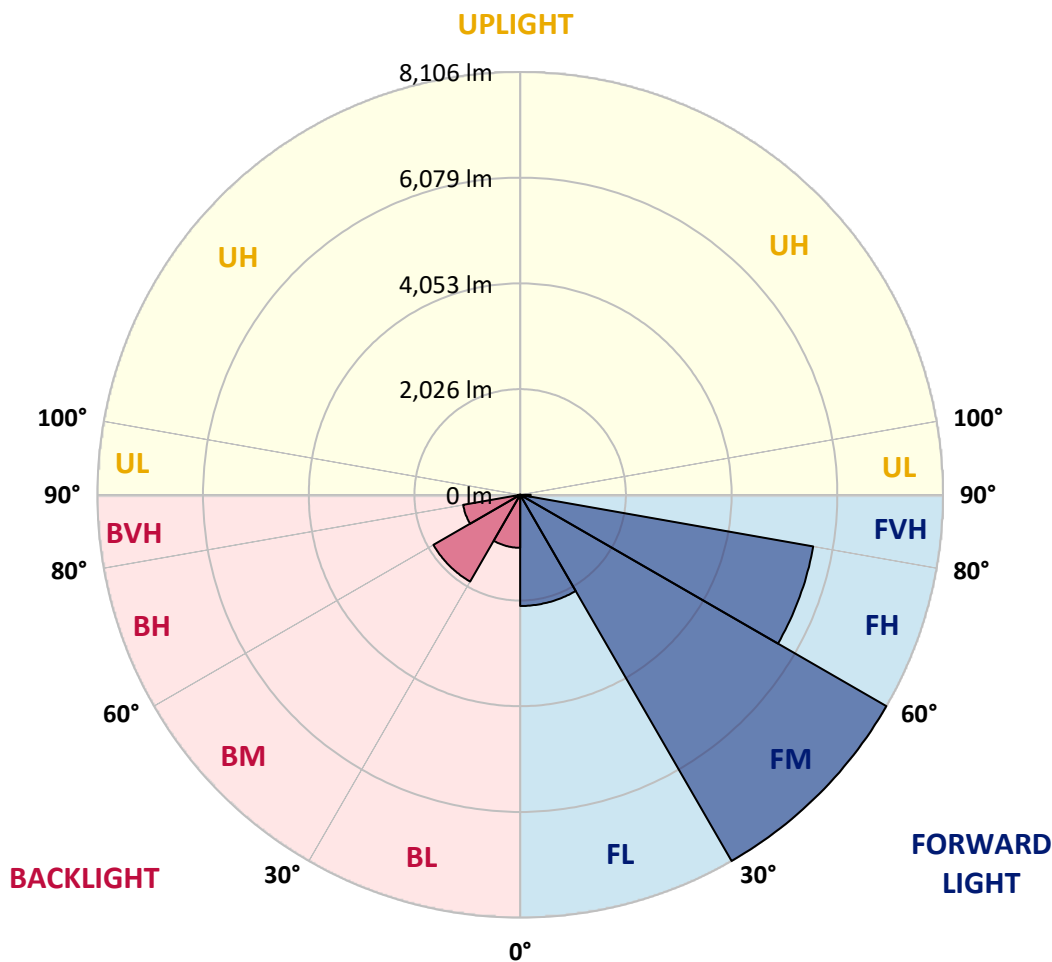
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2130.4	10.5			
FM (30°-60°)	8106.0	40.1			
FH (60°-80°)	5704.3	28.2			G3/7500
FVH (80°-90°)	202.8	1.0			G2/225
BL (0°-30°)	1016.1	5.0	B3/2500		
BM (30°-60°)	1919.9	9.5	B2/2500		
BH (60°-80°)	1110.0	5.5	B3/2500		G3/2500
BVH (80°-90°)	42.4	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°	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9
2.5°	3942.6	3938.2	3896.0	3856.6	3830.4	3828.9	3760.4	3699.2	3671.5	3639.4	3568.0
5°	4146.7	4181.6	4135.0	4076.7	4030.1	3995.1	3935.3	3865.4	3836.2	3760.4	3652.6
7.5°	4442.5	4442.5	4398.8	4349.3	4295.3	4202.0	4100.0	3977.6	3963.0	3878.5	3737.1
10°	4585.4	4620.4	4563.5	4505.2	4445.5	4397.4	4258.9	4108.8	4072.3	3945.5	3770.6
12.5°	4785.1	4785.1	4754.5	4704.9	4636.4	4540.2	4451.3	4299.7	4238.5	4049.0	3830.4
15°	4973.1	4957.0	4930.8	4849.2	4814.2	4754.5	4637.8	4479.0	4467.3	4257.4	3922.2
17.5°	5120.3	5094.1	5069.3	5025.6	4983.3	4960.0	4876.9	4738.4	4690.3	4497.9	4095.6
20°	5196.1	5217.9	5158.2	5156.7	5169.8	5152.4	5097.0	4993.5	4973.1	4744.2	4272.0
22.5°	5282.1	5311.2	5296.7	5311.2	5350.6	5379.7	5376.8	5355.0	5322.9	5073.7	4556.2
25°	5301.0	5282.1	5343.3	5478.8	5578.0	5647.9	5784.9	5757.2	5748.5	5528.4	4942.5
27.5°	5242.7	5260.2	5356.4	5551.7	5806.8	5997.7	6110.0	6248.4	6217.8	6047.3	5407.4
30°	5207.7	5238.4	5365.2	5594.0	5936.5	6281.9	6503.5	6675.5	6701.7	6566.2	5865.1
32.5°	5086.8	5127.6	5258.8	5627.5	6063.3	6586.6	6862.0	7182.7	7171.0	7115.6	6421.9
35°	4900.2	4954.1	5155.3	5583.8	6206.1	6860.6	7226.4	7692.8	7701.6	7724.9	6950.9
37.5°	4750.1	4767.6	4996.4	5454.1	6263.0	7082.1	7566.0	8197.1	8338.5	8305.0	7551.4
40°	4509.6	4562.1	4809.8	5295.2	6257.2	7232.2	7911.5	8787.4	8863.2	8968.2	8179.6
42.5°	4213.7	4270.6	4508.1	5079.5	6175.5	7363.4	8243.8	9389.4	9495.8	9660.5	8755.4
45°	3929.5	3954.3	4177.3	4764.7	6016.7	7466.9	8567.3	9982.6	10145.8	10382.0	9335.5
47.5°	3575.3	3642.4	3891.6	4435.3	5665.4	7504.8	8806.4	10682.2	10982.5	11126.8	9997.2
50°	2750.4	2792.6	3492.2	4145.2	5283.5	7386.7	9116.8	11569.8	11759.3	11909.5	10667.6
52.5°	2423.9	2461.8	2732.9	3810.0	4857.9	7080.7	9306.3	12394.8	12623.6	12591.6	11341.0
55°	2286.9	2305.8	2422.4	3108.9	4470.2	6512.2	9438.9	13295.6	13419.4	13212.5	12008.6
57.5°	2128.0	2149.9	2237.3	2606.1	4033.0	5792.2	9328.2	14017.0	14063.7	13807.2	12603.2
60°	1986.6	2001.2	2132.4	2332.0	3557.8	5094.1	9048.3	14535.9	14665.6	14244.4	13244.5
62.5°	1865.6	1900.6	1969.1	2145.5	3225.5	4553.3	8340.0	14780.8	14964.4	14702.1	13670.1
65°	1746.1	1762.1	1840.9	1996.8	2868.4	4234.1	7934.8	14458.7	14672.9	14763.3	13932.5
67.5°	1582.9	1606.2	1683.4	1795.7	2393.3	3923.7	6988.8	13935.4	14241.5	14441.2	13776.5
70°	1391.9	1412.3	1491.0	1584.3	1998.3	3466.0	5898.6	13402.0	13603.1	13616.2	13079.8
72.5°	1170.4	1189.3	1268.0	1361.3	1658.7	2885.9	4623.3	12138.3	12588.7	12874.3	11910.9
75°	744.8	826.4	1021.7	1126.7	1365.7	2335.0	3298.4	9691.1	10874.6	11690.8	10307.6
77.5°	121.0	135.5	400.8	571.4	794.4	1582.9	1832.1	5369.5	6754.2	9769.8	8322.5
80°	91.8	103.5	145.8	387.7	510.1	985.3	721.5	1743.2	2101.8	4567.9	4662.6
82.5°	39.4	46.6	87.5	217.2	240.5	262.4	193.9	779.8	922.6	1389.0	1617.9
85°	13.1	17.5	40.8	68.5	75.8	58.3	42.3	309.0	380.4	666.1	616.5
87.5°	0.0	1.5	8.7	10.2	8.7	5.8	4.4	2.9	2.9	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°	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9
2.5°	3553.5	3503.9	3498.1	3438.3	3384.4	3323.2	3285.3	3272.1	3289.6	3307.1	3324.6
5°	3597.2	3521.4	3445.6	3321.7	3266.3	3199.3	3110.4	3056.4	3031.7	3053.5	3060.8
7.5°	3629.2	3531.6	3415.0	3245.9	3126.4	2998.1	2913.6	2823.2	2773.7	2782.4	2789.7
10°	3635.1	3527.2	3329.0	3165.7	2973.4	2797.0	2686.2	2644.0	2610.4	2581.3	2585.7
12.5°	3689.0	3530.1	3256.1	3057.9	2855.3	2627.9	2504.0	2450.1	2444.3	2384.5	2378.7
15°	3761.9	3594.3	3218.2	2960.2	2700.8	2486.5	2339.3	2243.1	2246.0	2215.4	2211.1
17.5°	3879.9	3656.9	3190.5	2846.5	2539.0	2342.2	2155.7	2068.2	2040.5	2031.8	2024.5
20°	4012.6	3748.8	3157.0	2746.0	2397.6	2168.8	1960.4	1871.5	1794.2	1770.9	1773.8
22.5°	4207.9	3869.7	3184.7	2670.2	2240.2	1999.7	1792.8	1619.3	1486.7	1451.7	1447.3
25°	4553.3	4108.8	3267.8	2604.6	2142.6	1835.0	1556.6	1313.2	1138.3	1100.4	1103.3
27.5°	4938.1	4423.6	3382.9	2576.9	2018.7	1652.8	1269.5	998.4	835.2	791.4	794.4
30°	5394.3	4798.2	3557.8	2499.7	1886.0	1387.6	945.9	731.7	604.9	553.9	556.8
32.5°	5833.0	5172.8	3782.3	2488.0	1719.9	1042.1	683.6	532.0	428.5	390.6	395.0
35°	6316.9	5601.3	4018.4	2429.7	1447.3	747.7	479.5	368.8	313.4	301.7	300.3
37.5°	6865.0	5983.1	4193.3	2375.8	1082.9	526.2	327.9	284.2	276.9	260.9	260.9
40°	7373.6	6381.1	4324.5	2232.9	757.9	357.1	256.5	258.0	250.7	228.8	224.5
42.5°	7843.0	6792.1	4445.5	2004.1	513.0	243.4	230.3	234.7	237.6	212.8	207.0
45°	8374.9	7299.3	4419.2	1660.1	326.5	220.1	207.0	220.1	234.7	209.9	204.1
47.5°	8958.0	7671.0	4474.6	1198.1	230.3	208.4	192.4	209.9	221.5	205.5	196.8
50°	9616.8	8157.8	4307.0	696.7	211.3	196.8	185.1	192.4	209.9	201.1	190.9
52.5°	10220.2	8592.1	4078.2	341.1	199.7	185.1	173.4	179.3	196.8	186.6	189.5
55°	10728.9	9044.0	3613.2	243.4	192.4	172.0	167.6	169.1	179.3	166.2	174.9
57.5°	11352.7	9415.6	3141.0	227.4	186.6	163.2	164.7	153.0	156.0	148.7	139.9
60°	11908.0	9766.9	2499.7	209.9	177.8	167.6	148.7	132.6	123.9	119.5	118.1
62.5°	12463.3	10033.6	1842.3	190.9	169.1	151.6	131.2	113.7	99.1	93.3	91.8
65°	12673.2	10176.5	1257.8	174.9	158.9	138.5	116.6	91.8	75.8	70.0	65.6
67.5°	12517.2	9729.0	728.8	157.4	153.0	126.8	102.0	74.3	58.3	53.9	51.0
70°	11794.3	9026.5	389.2	142.8	134.1	112.2	90.4	61.2	46.6	40.8	39.4
72.5°	10551.0	7762.8	204.1	119.5	112.2	91.8	71.4	51.0	37.9	30.6	29.2
75°	8959.4	6093.9	142.8	87.5	77.2	71.4	53.9	40.8	30.6	23.3	21.9
77.5°	7071.9	3960.1	107.9	56.8	45.2	46.6	39.4	33.5	24.8	17.5	17.5
80°	3652.6	2058.0	81.6	37.9	26.2	27.7	27.7	24.8	18.9	13.1	13.1
82.5°	1448.8	757.9	56.8	21.9	16.0	17.5	16.0	16.0	13.1	8.7	8.7
85°	478.1	166.2	20.4	13.1	10.2	10.2	8.7	7.3	4.4	2.9	2.9
87.5°	4.4	4.4	5.8	7.3	7.3	5.8	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)