

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: P553520

Luminaire Tested: **VERD-G-CA2-140-740-U-T2-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553520
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-CA2-140-740-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1290mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18837 lumens
Efficiency: N/A
Efficacy: 132.3 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

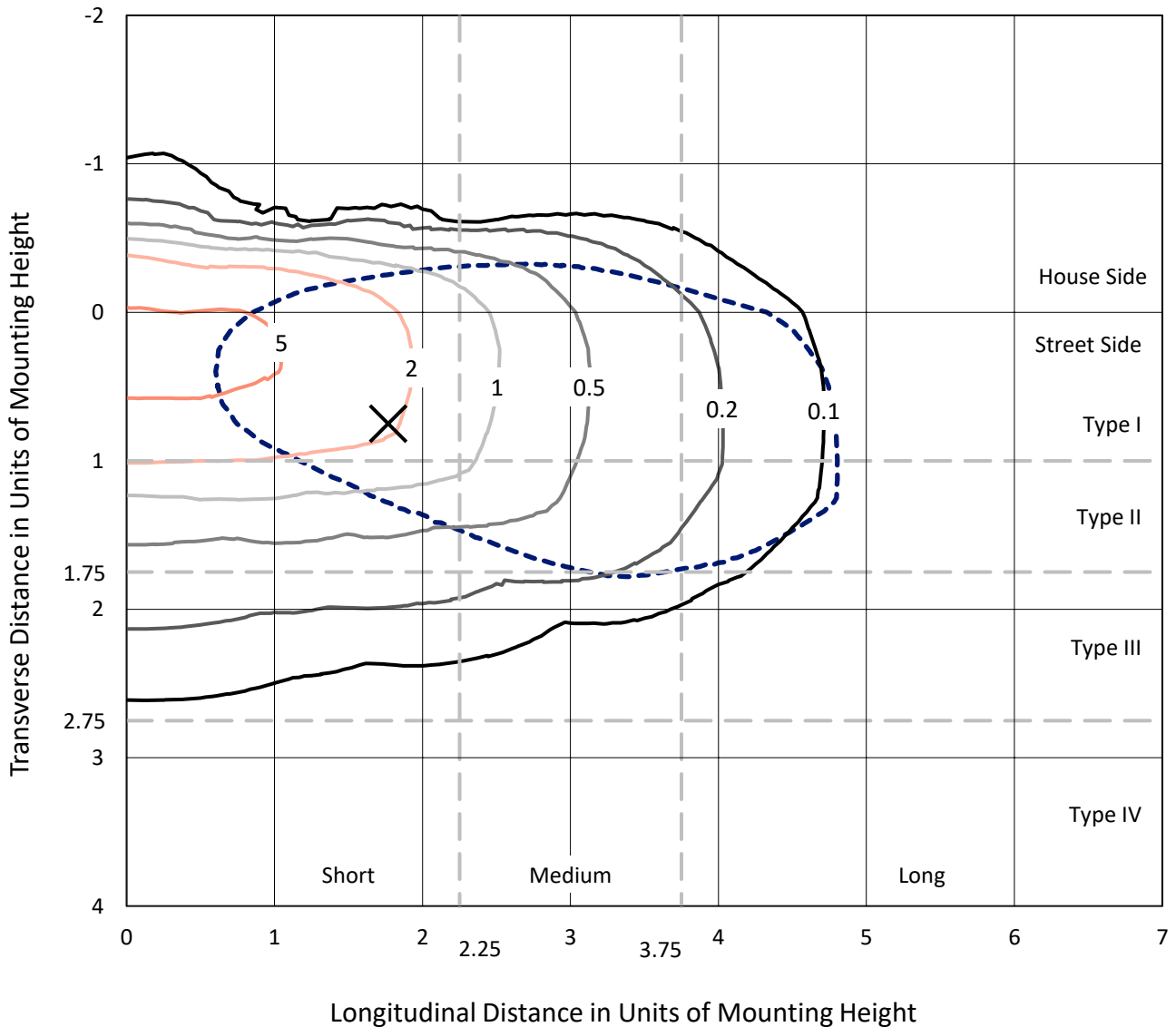
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

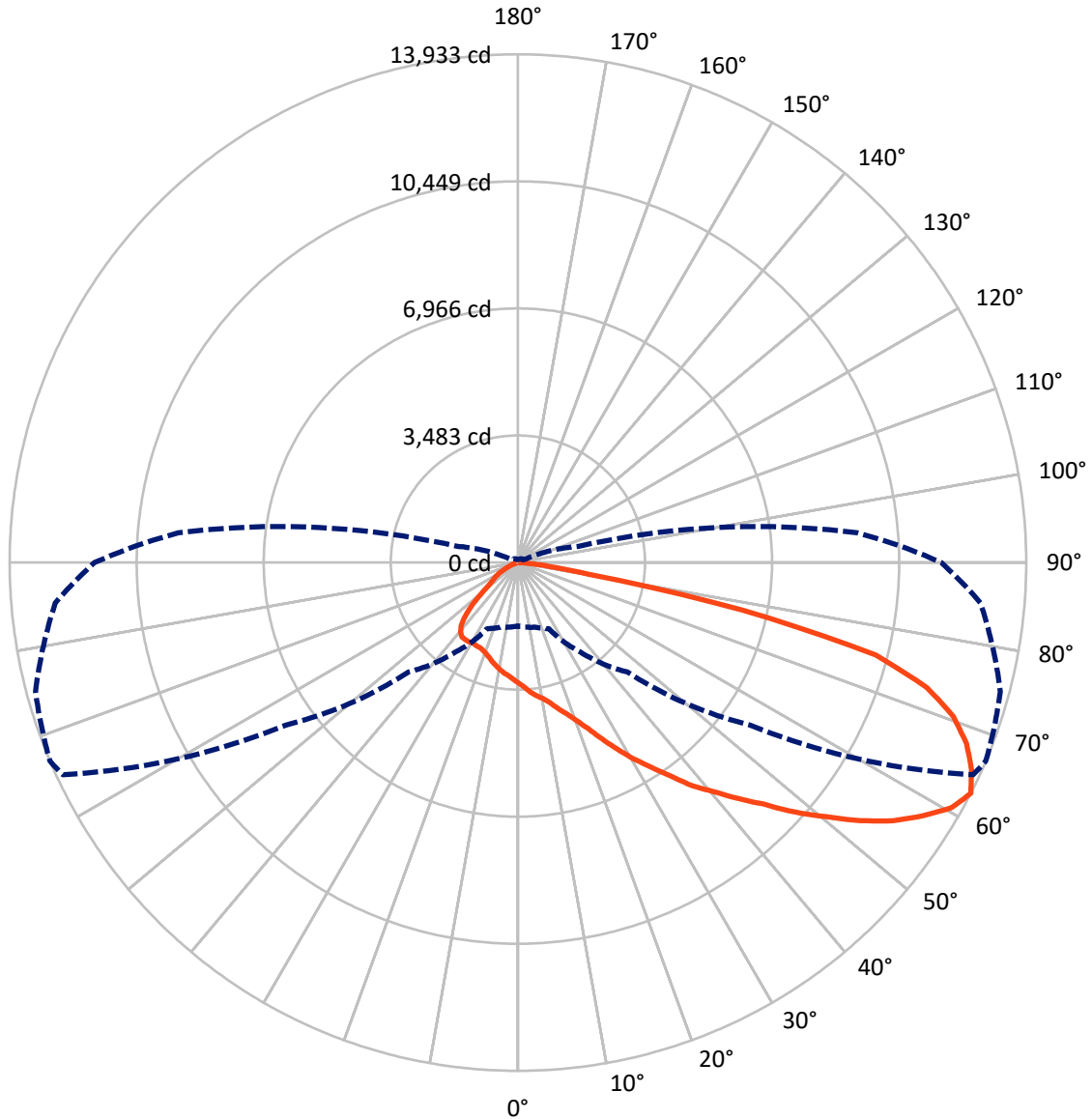
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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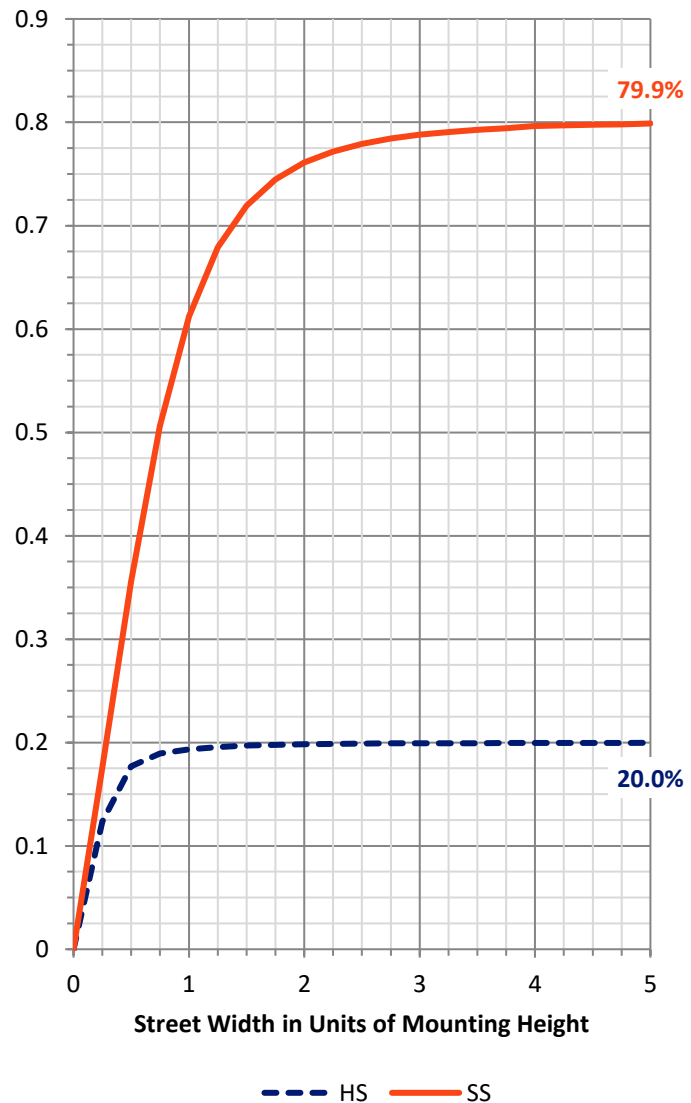
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3806.5	0.0	3806.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	15030.5	0.0	15030.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	18837.0	0.0	18837.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.8	1.7
10°-20°	964.5	5.1
20°-30°	1645.3	8.7
30°-40°	2410.3	12.8
40°-50°	3180.9	16.9
50°-60°	3743.4	19.9
60°-70°	3850.1	20.4
70°-80°	2494.4	13.2
80°-90°	228.3	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°	18837.0	100.0
0°-180°	18837.0	100.0



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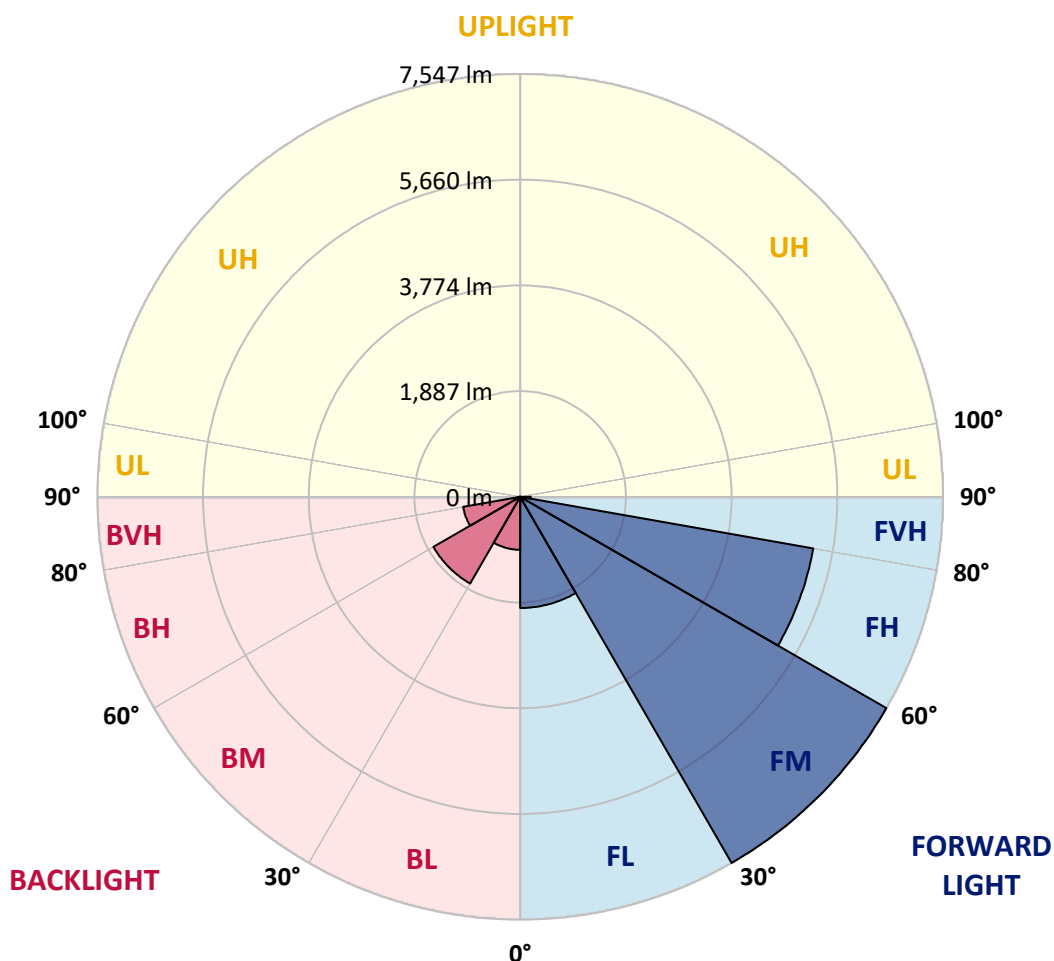
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1983.5	10.5			
FM (30°-60°)	7547.1	40.1			
FH (60°-80°)	5311.0	28.2			G3/7500
FVH (80°-90°)	188.8	1.0			G2/225
BL (0°-30°)	946.1	5.0	B2/1000		
BM (30°-60°)	1787.5	9.5	B2/2500		
BH (60°-80°)	1033.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	39.5	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°	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8
2.5°	3670.8	3666.7	3627.3	3590.7	3566.3	3564.9	3501.1	3444.1	3418.4	3388.5	3322.0
5°	3860.8	3893.3	3849.9	3795.6	3752.2	3719.6	3664.0	3598.8	3571.7	3501.1	3400.7
7.5°	4136.2	4136.2	4095.5	4049.4	3999.2	3912.3	3817.3	3703.3	3689.8	3611.1	3479.4
10°	4269.2	4301.8	4248.9	4194.6	4138.9	4094.2	3965.2	3825.5	3791.5	3673.5	3510.6
12.5°	4455.1	4455.1	4426.6	4380.5	4316.7	4227.1	4144.4	4003.2	3946.2	3769.8	3566.3
15°	4630.2	4615.3	4590.8	4514.8	4482.3	4426.6	4318.1	4170.2	4159.3	3963.9	3651.8
17.5°	4767.2	4742.8	4719.8	4679.0	4639.7	4618.0	4540.6	4411.7	4366.9	4187.8	3813.3
20°	4837.8	4858.2	4802.5	4801.2	4813.4	4797.1	4745.5	4649.2	4630.2	4417.1	3977.5
22.5°	4917.9	4945.0	4931.4	4945.0	4981.7	5008.8	5006.1	4985.7	4955.9	4723.8	4242.1
25°	4935.5	4917.9	4974.9	5101.1	5193.4	5258.5	5386.1	5360.3	5352.1	5147.2	4601.7
27.5°	4881.2	4897.5	4987.1	5168.9	5406.4	5584.2	5688.7	5817.6	5789.1	5630.3	5034.6
30°	4848.7	4877.2	4995.2	5208.3	5527.2	5848.8	6055.1	6215.2	6239.6	6113.4	5460.7
32.5°	4736.0	4774.0	4896.2	5239.5	5645.2	6132.4	6388.9	6687.4	6676.6	6625.0	5979.1
35°	4562.3	4612.5	4799.8	5198.8	5778.2	6387.5	6728.2	7162.4	7170.5	7192.3	6471.7
37.5°	4422.6	4438.8	4651.9	5078.0	5831.2	6593.8	7044.3	7631.9	7763.6	7732.4	7030.8
40°	4198.7	4247.5	4478.2	4930.1	5825.7	6733.6	7366.0	8181.5	8252.1	8349.8	7615.7
42.5°	3923.2	3976.1	4197.3	4729.2	5749.7	6855.7	7675.4	8742.0	8841.1	8994.4	8151.7
45°	3658.6	3681.6	3889.2	4436.1	5601.8	6952.1	7976.6	9294.3	9446.3	9666.1	8691.8
47.5°	3328.8	3391.2	3623.3	4129.4	5274.8	6987.3	8199.2	9945.7	10225.2	10359.6	9307.9
50°	2560.7	2600.1	3251.4	3859.4	4919.2	6877.4	8488.2	10772.1	10948.5	11088.3	9932.1
52.5°	2256.7	2292.0	2544.4	3547.3	4523.0	6592.5	8664.6	11540.2	11753.2	11723.4	10559.1
55°	2129.2	2146.8	2255.4	2894.5	4162.0	6063.2	8788.1	12378.8	12494.2	12301.5	11180.6
57.5°	1981.3	2001.6	2083.0	2426.4	3754.9	5392.8	8685.0	13050.6	13094.0	12855.1	11734.2
60°	1849.6	1863.2	1985.3	2171.2	3312.5	4742.8	8424.4	13533.7	13654.4	13262.3	12331.3
62.5°	1737.0	1769.6	1833.3	1997.5	3003.1	4239.4	7764.9	13761.6	13932.6	13688.4	12727.6
65°	1625.7	1640.6	1713.9	1859.1	2670.6	3942.2	7387.7	13461.7	13661.2	13745.4	12971.8
67.5°	1473.7	1495.4	1567.4	1671.9	2228.2	3653.1	6507.0	12974.6	13259.5	13445.5	12826.6
70°	1296.0	1315.0	1388.2	1475.1	1860.5	3227.0	5491.9	12477.9	12665.2	12677.4	12178.0
72.5°	1089.7	1107.3	1180.6	1267.5	1544.3	2686.9	4304.5	11301.3	11720.7	11986.6	11089.6
75°	693.4	769.4	951.3	1049.0	1271.5	2174.0	3071.0	9022.9	10124.8	10884.7	9596.9
77.5°	112.6	126.2	373.2	532.0	739.6	1473.7	1705.8	4999.3	6288.5	9096.2	7748.6
80°	85.5	96.3	135.7	361.0	475.0	917.4	671.7	1623.0	1956.8	4252.9	4341.1
82.5°	36.6	43.4	81.4	202.2	223.9	244.3	180.5	726.0	859.0	1293.2	1506.3
85°	12.2	16.3	38.0	63.8	70.6	54.3	39.4	287.7	354.2	620.2	574.0
87.5°	0.0	1.4	8.1	9.5	8.1	5.4	4.1	2.7	2.7	4.1	4.1
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°	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8
2.5°	3308.4	3262.3	3256.9	3201.2	3151.0	3094.0	3058.7	3046.5	3062.8	3079.1	3095.4
5°	3349.1	3278.6	3208.0	3092.7	3041.1	2978.7	2895.9	2845.7	2822.6	2843.0	2849.8
7.5°	3379.0	3288.1	3179.5	3022.1	2910.8	2791.4	2712.7	2628.6	2582.4	2590.6	2597.4
10°	3384.4	3284.0	3099.5	2947.5	2768.3	2604.1	2501.0	2461.7	2430.4	2403.3	2407.4
12.5°	3434.6	3286.7	3031.6	2847.0	2658.4	2446.7	2331.4	2281.2	2275.7	2220.1	2214.7
15°	3502.5	3346.4	2996.3	2756.1	2514.6	2315.1	2178.0	2088.5	2091.2	2062.7	2058.6
17.5°	3612.4	3404.8	2970.5	2650.3	2363.9	2180.7	2007.0	1925.6	1899.8	1891.7	1884.9
20°	3735.9	3490.3	2939.3	2556.6	2232.3	2019.3	1825.2	1742.4	1670.5	1648.8	1651.5
22.5°	3917.7	3602.9	2965.1	2486.1	2085.8	1861.8	1669.1	1507.7	1384.2	1351.6	1347.5
25°	4239.4	3825.5	3042.5	2425.0	1994.8	1708.5	1449.3	1222.7	1059.8	1024.6	1027.3
27.5°	4597.6	4118.6	3149.7	2399.2	1879.5	1538.9	1182.0	929.6	777.6	736.9	739.6
30°	5022.4	4467.3	3312.5	2327.3	1756.0	1291.9	880.7	681.2	563.2	515.7	518.4
32.5°	5430.8	4816.1	3521.5	2316.5	1601.3	970.3	636.4	495.3	399.0	363.7	367.8
35°	5881.4	5215.1	3741.3	2262.2	1347.5	696.2	446.5	343.3	291.8	280.9	279.5
37.5°	6391.6	5570.6	3904.2	2212.0	1008.3	489.9	305.3	264.6	257.8	242.9	242.9
40°	6865.2	5941.1	4026.3	2079.0	705.7	332.5	238.8	240.2	233.4	213.1	209.0
42.5°	7302.2	6323.8	4138.9	1865.9	477.7	226.6	214.4	218.5	221.2	198.1	192.7
45°	7797.5	6796.0	4114.5	1545.7	304.0	204.9	192.7	204.9	218.5	195.4	190.0
47.5°	8340.3	7142.0	4166.1	1115.5	214.4	194.1	179.1	195.4	206.3	191.3	183.2
50°	8953.7	7595.3	4010.0	648.7	196.8	183.2	172.3	179.1	195.4	187.3	177.8
52.5°	9515.5	7999.7	3797.0	317.5	185.9	172.3	161.5	166.9	183.2	173.7	176.4
55°	9989.1	8420.4	3364.1	226.6	179.1	160.1	156.1	157.4	166.9	154.7	162.8
57.5°	10569.9	8766.4	2924.4	211.7	173.7	152.0	153.3	142.5	145.2	138.4	130.3
60°	11086.9	9093.5	2327.3	195.4	165.6	156.1	138.4	123.5	115.3	111.3	109.9
62.5°	11604.0	9341.8	1715.3	177.8	157.4	141.1	122.1	105.8	92.3	86.8	85.5
65°	11799.4	9474.8	1171.1	162.8	147.9	128.9	108.6	85.5	70.6	65.1	61.1
67.5°	11654.2	9058.2	678.5	146.6	142.5	118.1	95.0	69.2	54.3	50.2	47.5
70°	10981.1	8404.1	362.3	133.0	124.8	104.5	84.1	57.0	43.4	38.0	36.6
72.5°	9823.5	7227.5	190.0	111.3	104.5	85.5	66.5	47.5	35.3	28.5	27.1
75°	8341.7	5673.7	133.0	81.4	71.9	66.5	50.2	38.0	28.5	21.7	20.4
77.5°	6584.3	3687.1	100.4	52.9	42.1	43.4	36.6	31.2	23.1	16.3	16.3
80°	3400.7	1916.1	76.0	35.3	24.4	25.8	25.8	23.1	17.6	12.2	12.2
82.5°	1348.9	705.7	52.9	20.4	14.9	16.3	14.9	14.9	12.2	8.1	8.1
85°	445.1	154.7	19.0	12.2	9.5	9.5	8.1	6.8	4.1	2.7	2.7
87.5°	4.1	4.1	5.4	6.8	6.8	5.4	4.1	1.4	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)