

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: P509604

Luminaire Tested: **VERD-G-CA2-130-740-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509604
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-CA2-130-740-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17208 lumens
Efficiency: N/A
Efficacy: 128.5 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

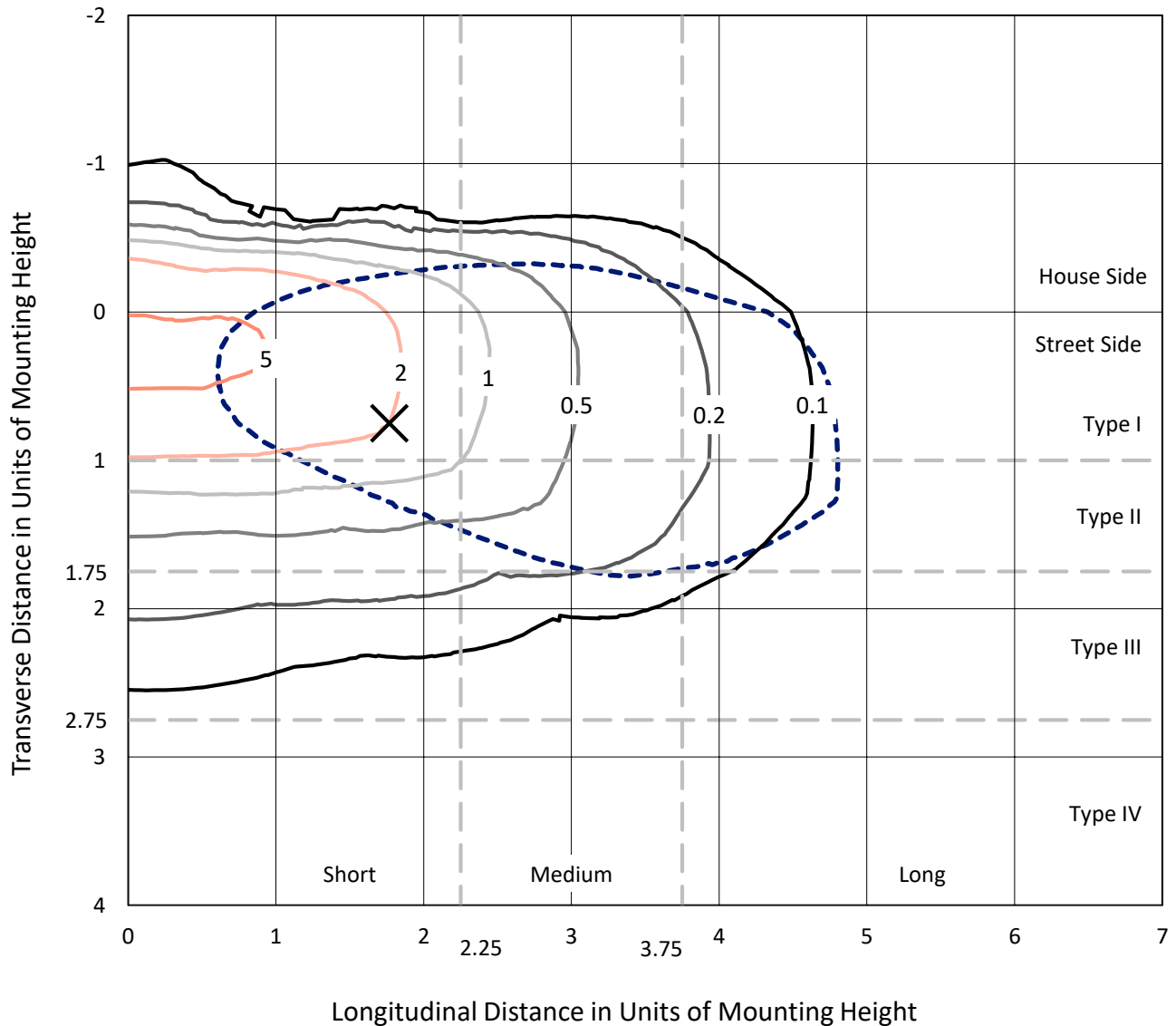
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

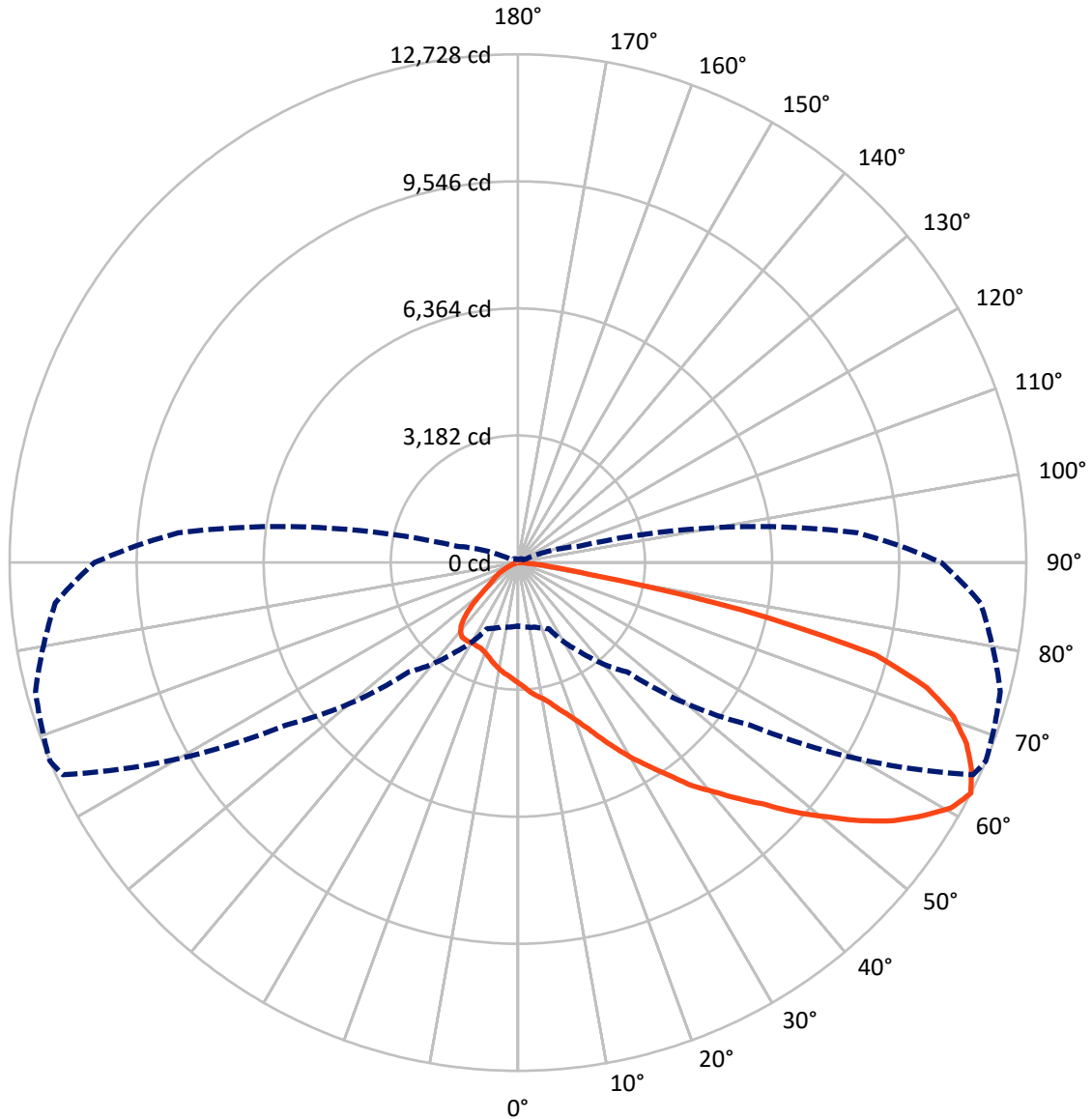
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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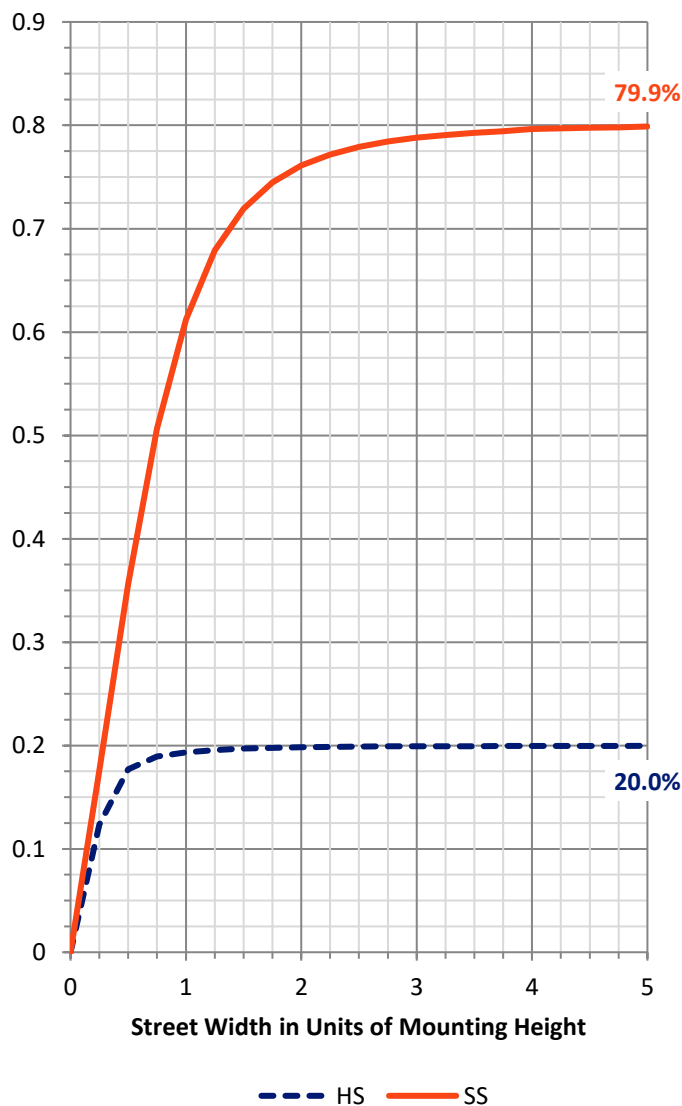
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3477.4	0.0	3477.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	13730.6	0.0	13730.6
	% Fixture	79.8	0.0	79.8
Total	Lumens	17208.0	0.0	17208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.1	1.7
10°-20°	881.1	5.1
20°-30°	1503.0	8.7
30°-40°	2201.9	12.8
40°-50°	2905.8	16.9
50°-60°	3419.7	19.9
60°-70°	3517.1	20.4
70°-80°	2278.7	13.2
80°-90°	208.6	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°	17208.0	100.0
0°-180°	17208.0	100.0

Coefficient of Utilization



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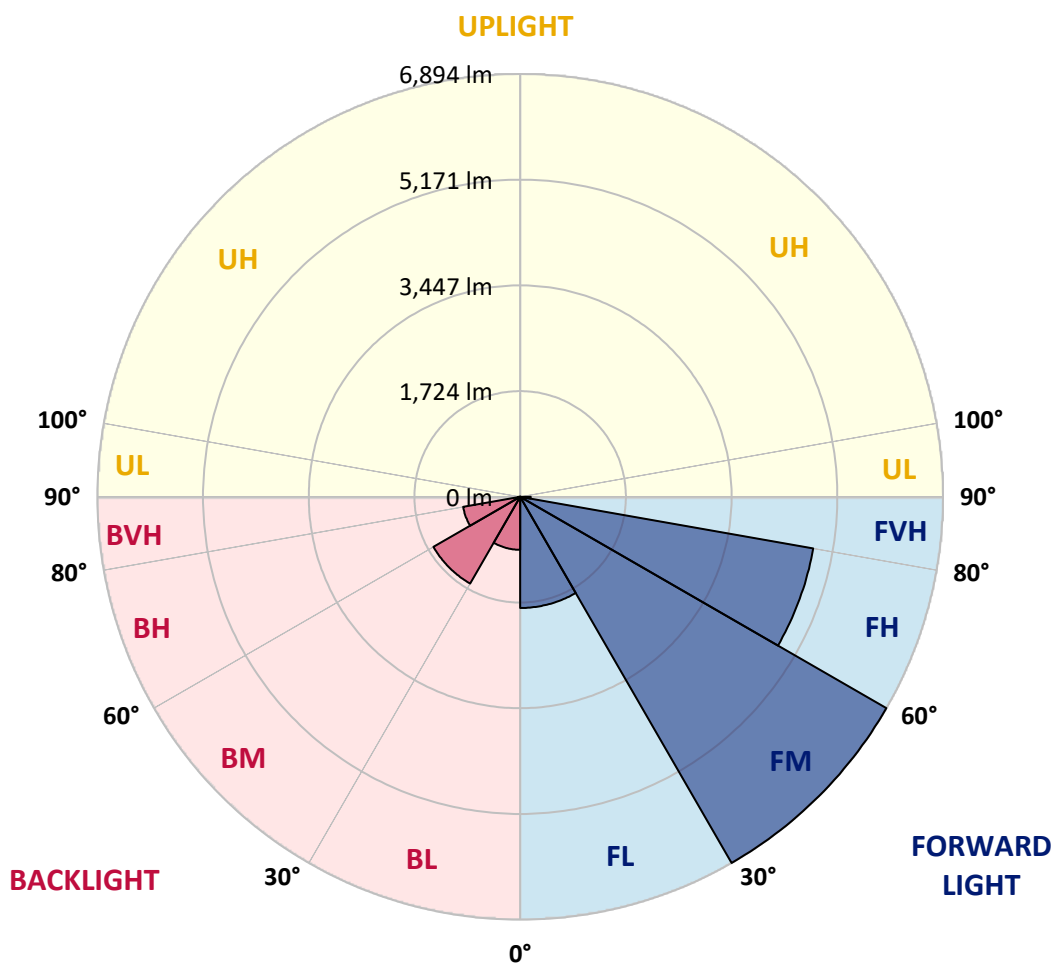
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1812.0	10.5			
FM (30°-60°)	6894.4	40.1			
FH (60°-80°)	4851.7	28.2			G2/5000
FVH (80°-90°)	172.5	1.0			G2/225
BL (0°-30°)	864.2	5.0	B2/1000		
BM (30°-60°)	1632.9	9.5	B2/2500		
BH (60°-80°)	944.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	36.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6
2.5°	3353.3	3349.6	3313.7	3280.2	3257.9	3256.6	3198.4	3146.3	3122.7	3095.5	3034.7
5°	3526.9	3556.6	3517.0	3467.4	3427.7	3398.0	3347.1	3287.6	3262.8	3198.4	3106.6
7.5°	3778.5	3778.5	3741.3	3699.2	3653.3	3574.0	3487.2	3383.1	3370.7	3298.8	3178.5
10°	3900.0	3929.8	3881.4	3831.8	3781.0	3740.1	3622.3	3494.6	3463.7	3355.8	3207.0
12.5°	4069.9	4069.9	4043.8	4001.7	3943.4	3861.6	3786.0	3657.0	3605.0	3443.8	3257.9
15°	4229.8	4216.1	4193.8	4124.4	4094.6	4043.8	3944.6	3809.5	3799.6	3621.1	3336.0
17.5°	4355.0	4332.7	4311.6	4274.4	4238.5	4218.6	4148.0	4030.2	3989.3	3825.6	3483.5
20°	4419.4	4438.0	4387.2	4386.0	4397.1	4382.3	4335.1	4247.1	4229.8	4035.1	3633.5
22.5°	4492.6	4517.4	4505.0	4517.4	4550.8	4575.6	4573.2	4554.6	4527.3	4315.3	3875.2
25°	4508.7	4492.6	4544.7	4659.9	4744.2	4803.7	4920.3	4896.7	4889.3	4702.1	4203.7
27.5°	4459.1	4474.0	4555.8	4721.9	4938.9	5101.3	5196.7	5314.5	5288.5	5143.4	4599.2
30°	4429.4	4455.4	4563.2	4757.9	5049.2	5343.0	5531.4	5677.7	5700.0	5584.7	4988.5
32.5°	4326.5	4361.2	4472.7	4786.4	5157.1	5602.1	5836.4	6109.1	6099.2	6052.1	5462.0
35°	4167.8	4213.7	4384.7	4749.2	5278.5	5835.2	6146.3	6543.0	6550.4	6570.3	5912.0
37.5°	4040.1	4055.0	4249.6	4638.9	5326.9	6023.6	6435.2	6971.9	7092.2	7063.7	6422.8
40°	3835.6	3880.2	4090.9	4503.7	5321.9	6151.3	6729.0	7474.0	7538.5	7627.7	6957.1
42.5°	3583.9	3632.2	3834.3	4320.3	5252.5	6262.8	7011.6	7986.0	8076.5	8216.6	7446.7
45°	3342.2	3363.2	3552.9	4052.5	5117.4	6350.9	7286.8	8490.5	8629.4	8830.2	7940.1
47.5°	3040.9	3097.9	3309.9	3772.3	4818.6	6383.1	7490.1	9085.6	9341.0	9463.7	8502.9
50°	2339.3	2375.2	2970.3	3525.6	4493.8	6282.7	7754.2	9840.5	10001.7	10129.4	9073.2
52.5°	2061.6	2093.8	2324.4	3240.5	4131.8	6022.3	7915.3	10542.2	10736.8	10709.6	9645.9
55°	1945.1	1961.2	2060.3	2644.2	3802.1	5538.9	8028.1	11308.3	11413.7	11237.7	10213.7
57.5°	1809.9	1828.5	1902.9	2216.5	3430.2	4926.5	7933.9	11922.0	11961.6	11743.4	10719.5
60°	1689.7	1702.1	1813.6	1983.5	3026.0	4332.7	7695.9	12363.3	12473.6	12115.4	11264.9
62.5°	1586.8	1616.5	1674.8	1824.8	2743.4	3872.7	7093.4	12571.6	12727.8	12504.6	11626.9
65°	1485.1	1498.8	1565.7	1698.4	2439.7	3601.3	6748.8	12297.6	12479.8	12556.7	11850.1
67.5°	1346.3	1366.1	1431.8	1527.3	2035.5	3337.2	5944.2	11852.5	12112.9	12282.7	11717.4
70°	1183.9	1201.2	1268.2	1347.5	1699.6	2947.9	5017.0	11398.8	11569.9	11581.1	11124.8
72.5°	995.5	1011.6	1078.5	1157.9	1410.8	2454.6	3932.3	10324.0	10707.1	10950.1	10130.6
75°	633.5	702.9	869.0	958.3	1161.6	1986.0	2805.4	8242.6	9249.2	9943.4	8767.0
77.5°	102.9	115.3	340.9	486.0	675.6	1346.3	1558.3	4567.0	5744.7	8309.5	7078.5
80°	78.1	88.0	124.0	329.8	433.9	838.0	613.6	1482.7	1787.6	3885.1	3965.7
82.5°	33.5	39.7	74.4	184.7	204.5	223.1	164.9	663.2	784.7	1181.4	1376.0
85°	11.2	14.9	34.7	58.3	64.5	49.6	36.0	262.8	323.6	566.5	524.4
87.5°	0.0	1.2	7.4	8.7	7.4	5.0	3.7	2.5	2.5	3.7	3.7
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°	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6
2.5°	3022.3	2980.2	2975.2	2924.4	2878.5	2826.5	2794.2	2783.1	2797.9	2812.8	2827.7
5°	3059.5	2995.1	2930.6	2825.2	2778.1	2721.1	2645.5	2599.6	2578.5	2597.1	2603.3
7.5°	3086.8	3003.7	2904.6	2760.8	2659.1	2550.0	2478.1	2401.3	2359.1	2366.5	2372.7
10°	3091.8	3000.0	2831.4	2692.6	2528.9	2378.9	2284.7	2248.8	2220.3	2195.5	2199.2
12.5°	3137.6	3002.5	2769.4	2600.8	2428.5	2235.1	2129.8	2083.9	2078.9	2028.1	2023.2
15°	3199.6	3057.0	2737.2	2517.8	2297.1	2114.9	1989.7	1907.9	1910.3	1884.3	1880.6
17.5°	3300.0	3110.3	2713.7	2421.1	2159.5	1992.2	1833.5	1759.1	1735.5	1728.1	1721.9
20°	3412.8	3188.4	2685.1	2335.5	2039.3	1844.6	1667.4	1591.7	1526.0	1506.2	1508.7
22.5°	3578.9	3291.3	2708.7	2271.1	1905.4	1700.8	1524.8	1377.3	1264.5	1234.7	1231.0
25°	3872.7	3494.6	2779.4	2215.3	1822.3	1560.8	1324.0	1116.9	968.2	936.0	938.4
27.5°	4200.0	3762.4	2877.3	2191.7	1717.0	1405.8	1079.8	849.2	710.3	673.1	675.6
30°	4588.0	4081.0	3026.0	2126.0	1604.1	1180.2	804.5	622.3	514.5	471.1	473.6
32.5°	4961.2	4399.6	3217.0	2116.1	1462.8	886.4	581.4	452.5	364.5	332.2	336.0
35°	5372.8	4764.1	3417.8	2066.5	1231.0	636.0	407.9	313.6	266.5	256.6	255.4
37.5°	5838.9	5088.9	3566.5	2020.7	921.1	447.5	278.9	241.7	235.5	221.9	221.9
40°	6271.5	5427.3	3678.1	1899.2	644.6	303.7	218.2	219.4	213.2	194.6	190.9
42.5°	6670.7	5776.9	3781.0	1704.6	436.4	207.0	195.9	199.6	202.1	181.0	176.0
45°	7123.2	6208.3	3758.7	1412.0	277.7	187.2	176.0	187.2	199.6	178.5	173.6
47.5°	7619.0	6524.4	3805.8	1019.0	195.9	177.3	163.6	178.5	188.4	174.8	167.4
50°	8179.4	6938.5	3663.2	592.6	179.8	167.4	157.4	163.6	178.5	171.1	162.4
52.5°	8692.6	7307.9	3468.6	290.1	169.8	157.4	147.5	152.5	167.4	158.7	161.2
55°	9125.3	7692.2	3073.2	207.0	163.6	146.3	142.6	143.8	152.5	141.3	148.8
57.5°	9655.8	8008.3	2671.5	193.4	158.7	138.8	140.1	130.2	132.6	126.4	119.0
60°	10128.2	8307.1	2126.0	178.5	151.2	142.6	126.4	112.8	105.4	101.7	100.4
62.5°	10600.5	8533.9	1567.0	162.4	143.8	128.9	111.6	96.7	84.3	79.3	78.1
65°	10779.0	8655.4	1069.8	148.8	135.1	117.8	99.2	78.1	64.5	59.5	55.8
67.5°	10646.3	8274.8	619.8	133.9	130.2	107.9	86.8	63.2	49.6	45.9	43.4
70°	10031.5	7677.3	331.0	121.5	114.1	95.5	76.9	52.1	39.7	34.7	33.5
72.5°	8974.0	6602.5	173.6	101.7	95.5	78.1	60.7	43.4	32.2	26.0	24.8
75°	7620.3	5183.1	121.5	74.4	65.7	60.7	45.9	34.7	26.0	19.8	18.6
77.5°	6014.9	3368.2	91.7	48.3	38.4	39.7	33.5	28.5	21.1	14.9	14.9
80°	3106.6	1750.4	69.4	32.2	22.3	23.6	23.6	21.1	16.1	11.2	11.2
82.5°	1232.2	644.6	48.3	18.6	13.6	14.9	13.6	13.6	11.2	7.4	7.4
85°	406.6	141.3	17.4	11.2	8.7	8.7	7.4	6.2	3.7	2.5	2.5
87.5°	3.7	3.7	5.0	6.2	6.2	5.0	3.7	1.2	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)