

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: P509124

Luminaire Tested: **VERD-CA2-110-740-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-110-740-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1020mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14624 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

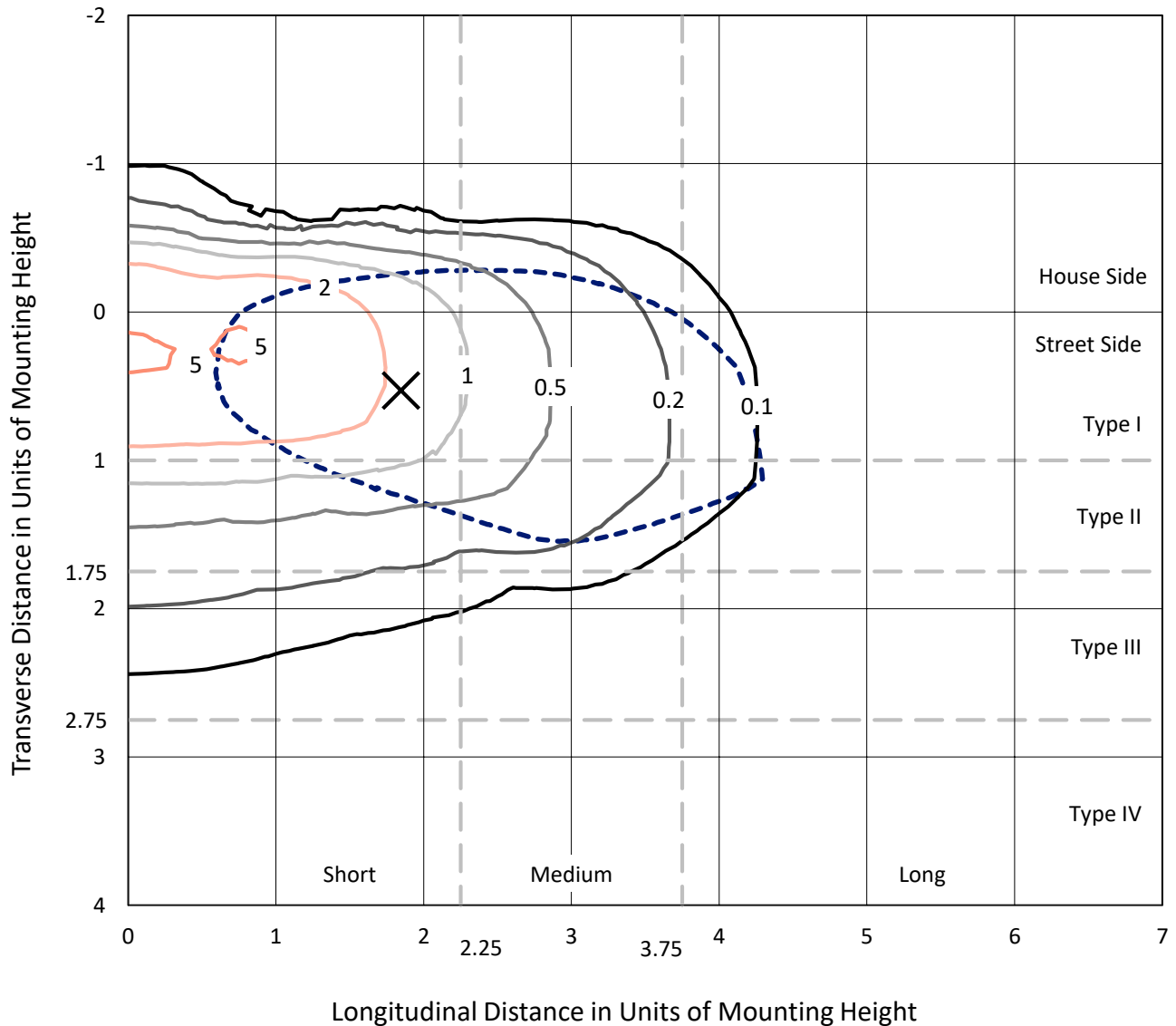
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509124
 CATALOG NUMBER: VERD-CA2-110-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

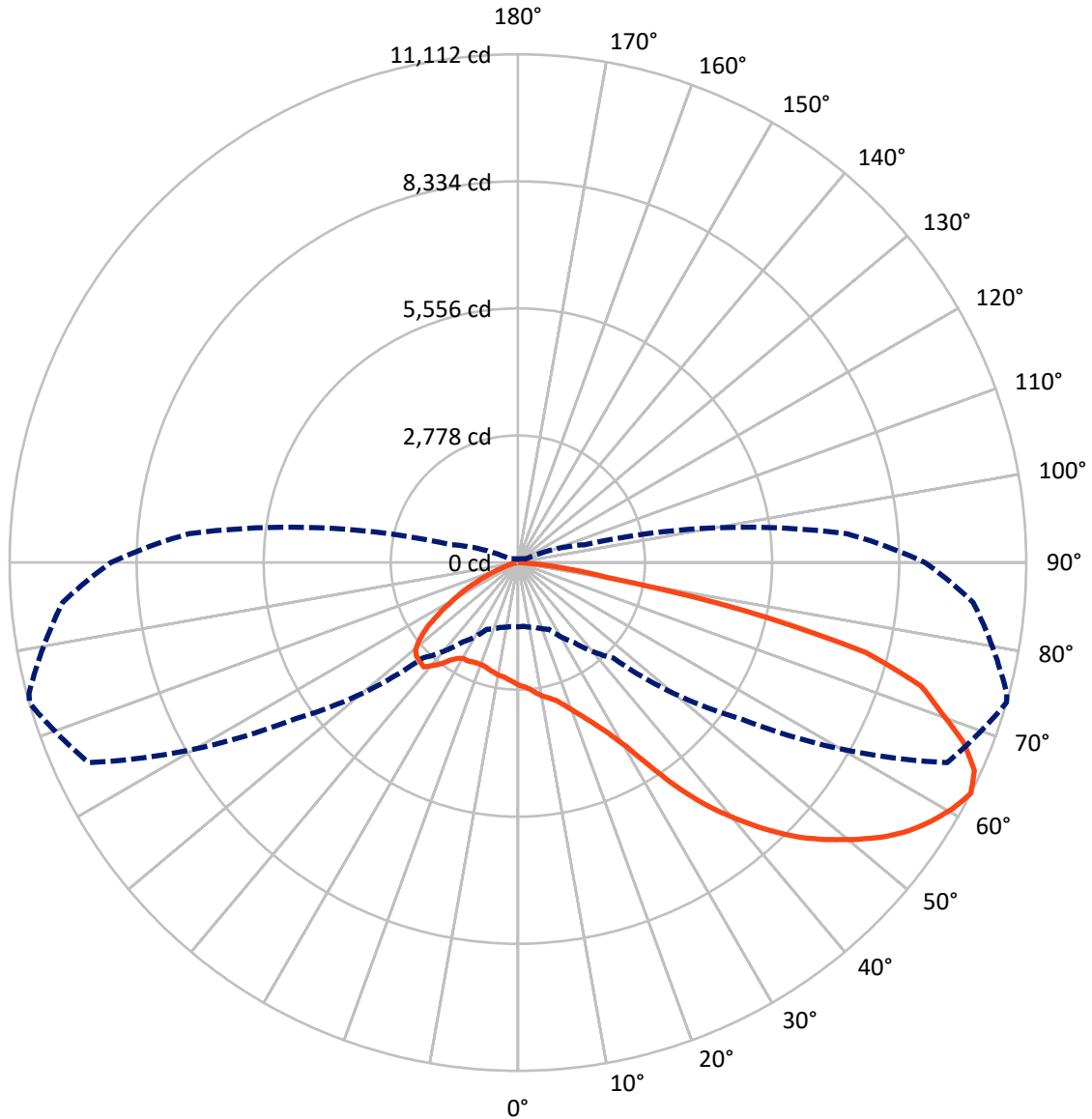
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

REPORT NUMBER: P509124
CATALOG NUMBER: VERD-CA2-110-740-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P509124
 CATALOG NUMBER: VERD-CA2-110-740-U-T2-HSS

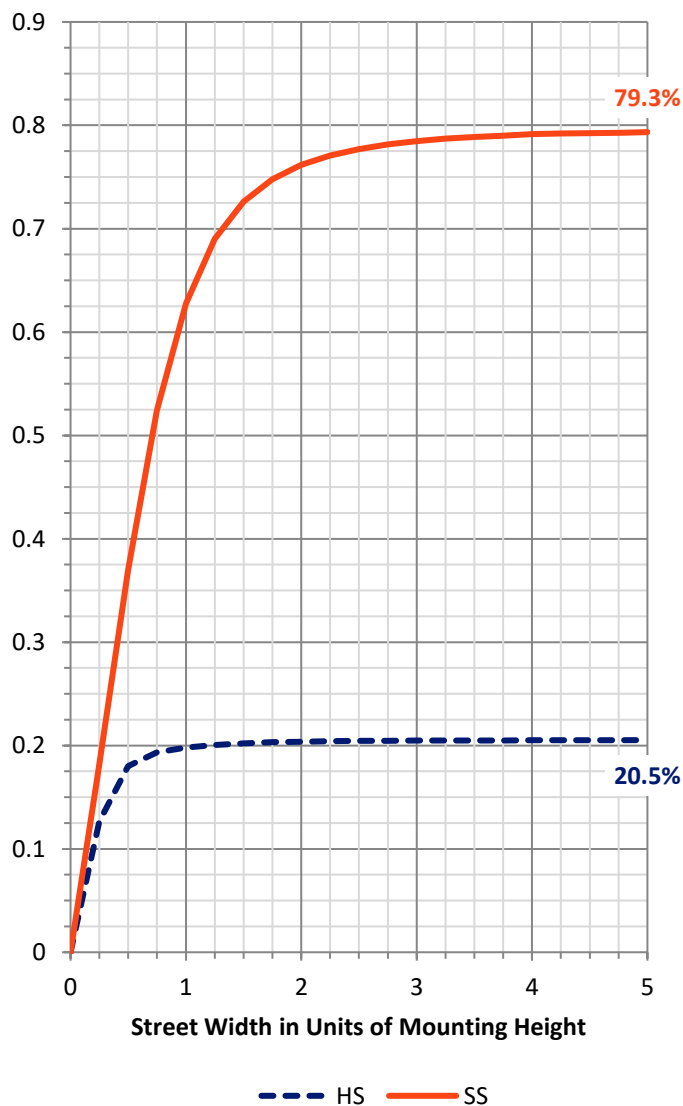
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3036.7	0.0	3036.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	11587.2	0.0	11587.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	14624.0	0.0	14624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	1.7
10°-20°	771.8	5.3
20°-30°	1303.1	8.9
30°-40°	1938.2	13.3
40°-50°	2623.3	17.9
50°-60°	3018.1	20.6
60°-70°	2913.2	19.9
70°-80°	1649.4	11.3
80°-90°	151.3	1.0
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°	14624.0	100.0
0°-180°	14624.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509124

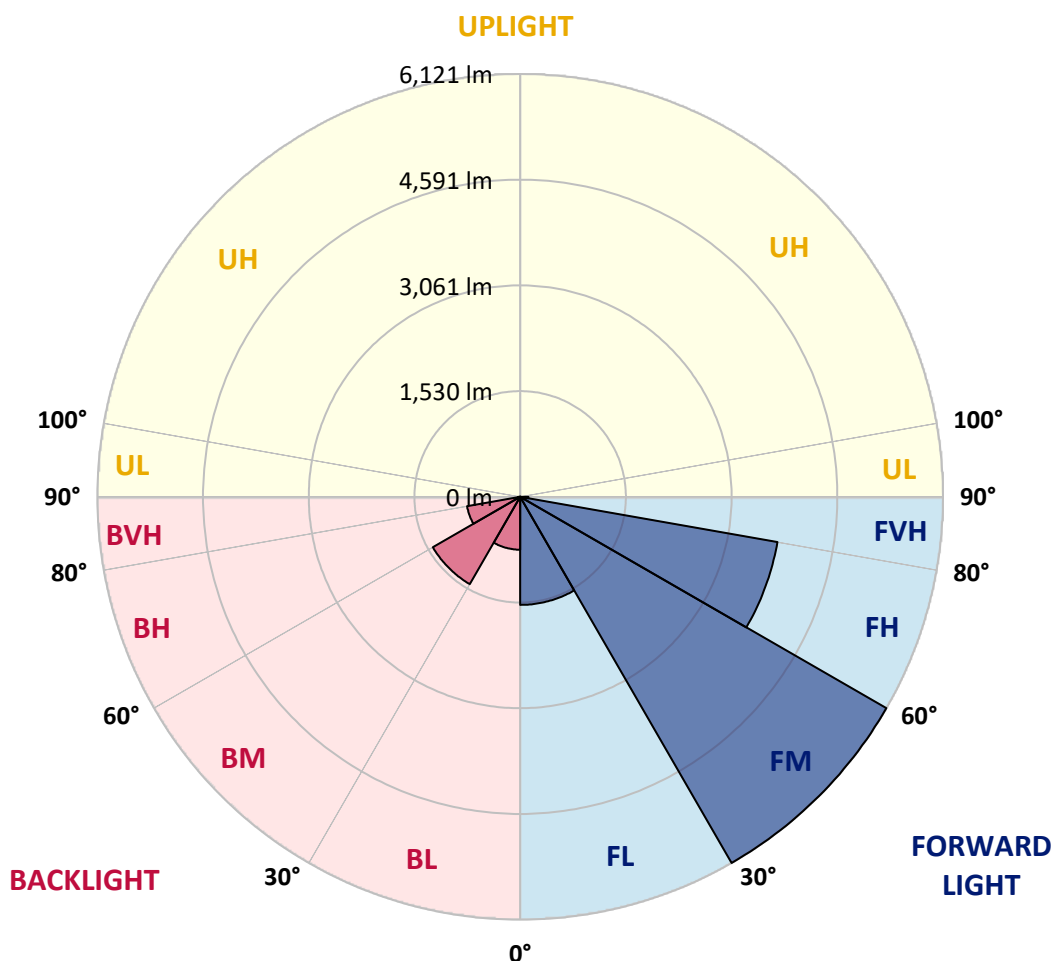
CATALOG NUMBER: VERD-CA2-110-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1564.8	10.7			
FM (30°-60°)	6121.3	41.9			
FH (60°-80°)	3781.9	25.9			G2/5000
FVH (80°-90°)	119.2	0.8			G2/225
BL (0°-30°)	765.7	5.2	B2/1000		
BM (30°-60°)	1458.3	10.0	B2/2500		
BH (60°-80°)	780.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	32.1	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





REPORT NUMBER: P509124

CATALOG NUMBER: VERD-CA2-110-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5
2.5°	2922.8	2903.6	2887.9	2879.2	2854.8	2833.9	2792.0	2748.5	2718.8	2717.1	2689.2
5°	3044.8	3043.0	3008.2	3001.2	2968.1	2957.6	2915.8	2853.0	2779.8	2771.1	2696.2
7.5°	3205.1	3185.9	3147.6	3131.9	3093.6	3065.7	3009.9	2950.6	2877.4	2868.7	2738.0
10°	3360.2	3349.8	3327.1	3328.8	3274.8	3222.5	3138.9	3037.8	2968.1	2957.6	2797.3
12.5°	3539.7	3506.6	3468.3	3447.4	3393.3	3360.2	3280.0	3147.6	3037.8	3027.3	2867.0
15°	3663.5	3646.0	3611.2	3597.2	3545.0	3490.9	3398.6	3295.7	3130.2	3119.7	2938.4
17.5°	3795.9	3787.2	3747.1	3738.4	3687.9	3623.4	3551.9	3417.7	3273.1	3255.6	3023.8
20°	3884.8	3869.1	3863.9	3862.2	3848.2	3808.1	3717.5	3612.9	3452.6	3421.2	3133.6
22.5°	4003.3	3987.6	3994.6	4001.6	4020.8	4003.3	3944.1	3820.3	3661.7	3633.8	3306.2
25°	4015.5	4005.1	4052.1	4149.7	4188.1	4207.2	4161.9	4066.1	3912.7	3876.1	3511.8
27.5°	4048.6	4033.0	4083.5	4186.3	4358.9	4388.5	4397.2	4351.9	4222.9	4202.0	3790.7
30°	3989.4	3978.9	4057.4	4233.4	4426.8	4594.2	4658.6	4721.4	4662.1	4625.5	4179.4
32.5°	3844.7	3851.7	3954.5	4188.1	4545.4	4803.3	4970.6	5192.0	5298.3	5291.3	4867.8
35°	3633.8	3630.4	3802.9	4132.3	4555.8	5000.2	5312.2	5761.9	6059.9	6039.0	5591.1
37.5°	3454.3	3445.6	3640.8	3991.1	4564.5	5157.1	5713.1	6384.1	6762.3	6741.4	6181.9
40°	3234.7	3248.7	3423.0	3827.3	4491.3	5273.9	6061.6	6988.8	7375.8	7375.8	6793.6
42.5°	3013.4	3025.6	3198.1	3599.0	4385.0	5359.3	6389.3	7591.9	7985.7	7994.5	7213.7
45°	2819.9	2825.2	2982.0	3342.8	4193.3	5373.2	6690.8	8196.6	8557.4	8534.7	7692.9
47.5°	2480.1	2537.6	2783.3	3112.7	3931.9	5312.2	6945.3	8735.2	9048.9	9001.8	8149.6
50°	1976.4	1976.4	2316.3	2893.1	3632.1	5150.1	7145.7	9226.7	9516.0	9472.4	8548.7
52.5°	1816.1	1819.5	1924.1	2584.6	3328.8	4871.3	7260.7	9714.7	9974.3	9944.7	8926.9
55°	1730.7	1735.9	1784.7	2094.9	3053.5	4444.3	7264.2	10092.9	10363.0	10296.8	9245.8
57.5°	1601.7	1593.0	1695.8	1866.6	2731.0	3893.5	7093.4	10385.7	10664.5	10614.0	9507.3
60°	1511.1	1497.1	1566.8	1720.2	2384.2	3323.6	6638.5	10598.3	10922.5	10952.1	9763.5
62.5°	1404.7	1399.5	1465.7	1610.4	2128.0	2950.6	5955.3	10350.8	11112.4	11065.4	9990.0
65°	1298.4	1288.0	1350.7	1464.0	1880.5	2645.6	5266.9	9984.8	10966.0	11007.9	10035.3
67.5°	1159.0	1157.3	1216.5	1300.2	1610.4	2304.1	4270.0	9503.8	10512.9	10483.3	9624.0
70°	989.9	989.9	1049.2	1122.4	1345.5	1965.9	3278.3	8679.4	9815.7	9988.3	8919.9
72.5°	800.0	803.5	862.7	946.4	1110.2	1601.7	2417.3	7548.3	9211.0	8933.9	7926.5
75°	427.0	383.4	676.2	761.6	895.8	1277.5	1654.0	4907.9	7855.0	7663.3	6575.8
77.5°	102.8	108.1	212.6	395.6	477.5	707.6	813.9	2272.7	5064.7	5369.7	4690.0
80°	68.0	74.9	115.0	280.6	318.9	376.5	322.4	989.9	1964.2	2093.2	2722.3
82.5°	34.9	38.3	71.5	111.5	113.3	97.6	122.0	498.5	1038.7	1125.9	1308.9
85°	12.2	19.2	36.6	48.8	45.3	36.6	29.6	123.7	245.7	273.6	284.1
87.5°	0.0	0.0	5.2	5.2	3.5	3.5	5.2	5.2	7.0	5.2	5.2
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: P509124

CATALOG NUMBER: VERD-CA2-110-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5
2.5°	2666.6	2647.4	2617.8	2586.4	2553.3	2525.4	2509.7	2518.4	2528.9	2495.8	2483.6
5°	2661.3	2628.2	2572.4	2506.2	2455.7	2405.1	2345.9	2331.9	2318.0	2300.6	2281.4
7.5°	2685.7	2636.9	2523.6	2462.7	2356.3	2262.2	2209.9	2171.6	2136.7	2105.4	2086.2
10°	2731.0	2640.4	2513.2	2389.5	2272.7	2157.7	2044.4	2021.7	2014.7	1969.4	1936.3
12.5°	2760.7	2649.1	2476.6	2326.7	2159.4	2035.7	1922.4	1857.9	1852.7	1831.7	1809.1
15°	2807.7	2684.0	2452.2	2248.3	2044.4	1913.7	1809.1	1725.4	1683.6	1681.9	1664.4
17.5°	2893.1	2724.1	2413.9	2168.1	1952.0	1805.6	1655.7	1624.3	1554.6	1514.5	1504.1
20°	2980.3	2783.3	2403.4	2087.9	1831.7	1650.5	1535.5	1448.3	1392.5	1350.7	1324.6
22.5°	3093.6	2868.7	2406.9	2040.9	1734.1	1533.7	1383.8	1254.9	1152.0	1101.5	1077.1
25°	3257.4	2968.1	2433.0	1969.4	1619.1	1408.2	1190.4	1019.6	874.9	838.3	820.9
27.5°	3466.5	3107.5	2469.6	1896.2	1512.8	1239.2	956.8	765.1	644.9	617.0	599.5
30°	3787.2	3316.6	2474.8	1850.9	1416.9	1019.6	716.3	566.4	472.3	442.7	446.2
32.5°	4390.2	3764.6	2544.6	1756.8	1246.1	782.5	526.3	413.1	341.6	331.1	348.6
35°	5090.9	4292.6	2678.8	1708.0	1050.9	566.4	376.5	303.3	257.9	271.9	278.9
37.5°	5542.3	4758.0	2893.1	1596.5	822.6	416.5	263.2	237.0	228.3	237.0	252.7
40°	6068.6	5136.2	3076.1	1483.2	583.9	285.8	210.9	216.1	205.7	203.9	210.9
42.5°	6495.6	5524.8	3271.3	1296.7	406.1	212.6	193.5	196.9	190.0	181.3	181.3
45°	6901.7	5861.2	3269.6	1045.7	268.4	188.2	177.8	184.7	183.0	170.8	169.1
47.5°	7257.2	6201.1	3271.3	759.9	203.9	172.5	165.6	172.5	172.5	162.1	160.3
50°	7698.2	6483.4	3219.0	486.3	186.5	160.3	158.6	156.9	163.8	149.9	146.4
52.5°	7968.3	6689.1	2983.8	327.7	172.5	151.6	148.1	144.7	148.1	135.9	135.9
55°	8264.6	6945.3	2677.0	259.7	163.8	141.2	139.4	135.9	135.9	122.0	123.7
57.5°	8587.0	7154.4	2264.0	228.3	156.9	134.2	130.7	125.5	118.5	108.1	106.3
60°	8820.6	7198.0	1852.7	207.4	151.6	130.7	116.8	109.8	97.6	90.6	88.9
62.5°	8899.0	7220.6	1502.3	186.5	142.9	120.3	104.6	92.4	78.4	73.2	73.2
65°	8834.5	6959.2	1125.9	169.1	132.5	111.5	92.4	74.9	61.0	55.8	54.0
67.5°	8419.7	6478.2	819.1	151.6	116.8	101.1	80.2	61.0	48.8	43.6	43.6
70°	7665.1	5911.8	554.2	127.2	101.1	88.9	74.9	48.8	40.1	34.9	33.1
72.5°	6842.4	5012.4	353.8	102.8	78.4	69.7	54.0	41.8	33.1	26.1	26.1
75°	5411.6	3937.1	245.7	74.9	55.8	52.3	41.8	34.9	27.9	20.9	20.9
77.5°	3766.3	2558.5	193.5	57.5	38.3	34.9	31.4	26.1	22.7	17.4	15.7
80°	2183.8	1538.9	116.8	38.3	26.1	22.7	20.9	20.9	17.4	12.2	12.2
82.5°	1084.1	641.4	50.5	24.4	17.4	15.7	13.9	12.2	12.2	8.7	8.7
85°	212.6	109.8	19.2	12.2	8.7	8.7	7.0	7.0	5.2	3.5	3.5
87.5°	7.0	5.2	5.2	5.2	3.5	3.5	1.7	0.0	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)