

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: P509220

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

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509220
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-CA2-130-740-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1180mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16599 lumens
Efficiency: N/A
Efficacy: 125.9 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

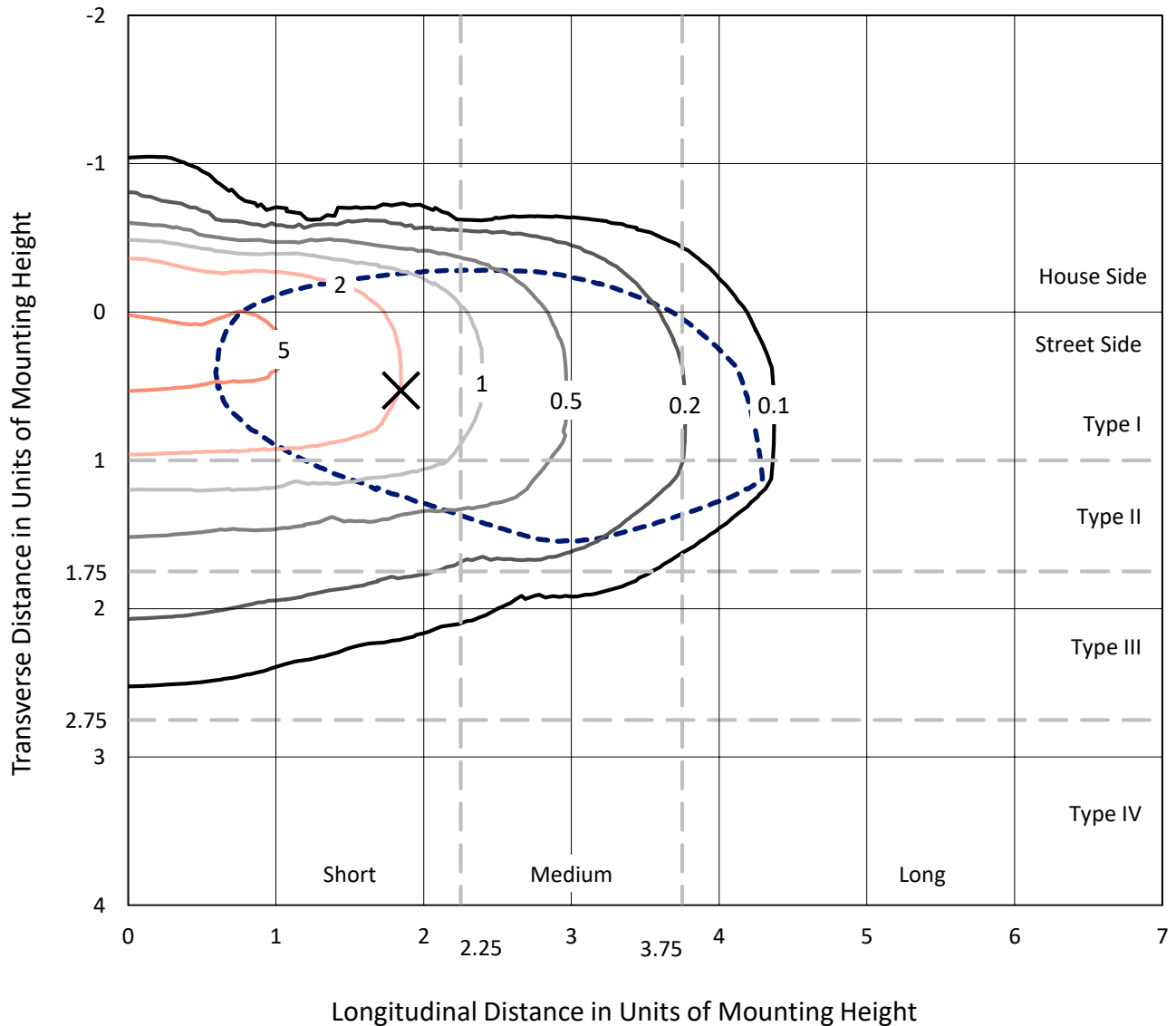
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509220
 CATALOG NUMBER: VERD-CA2-130-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

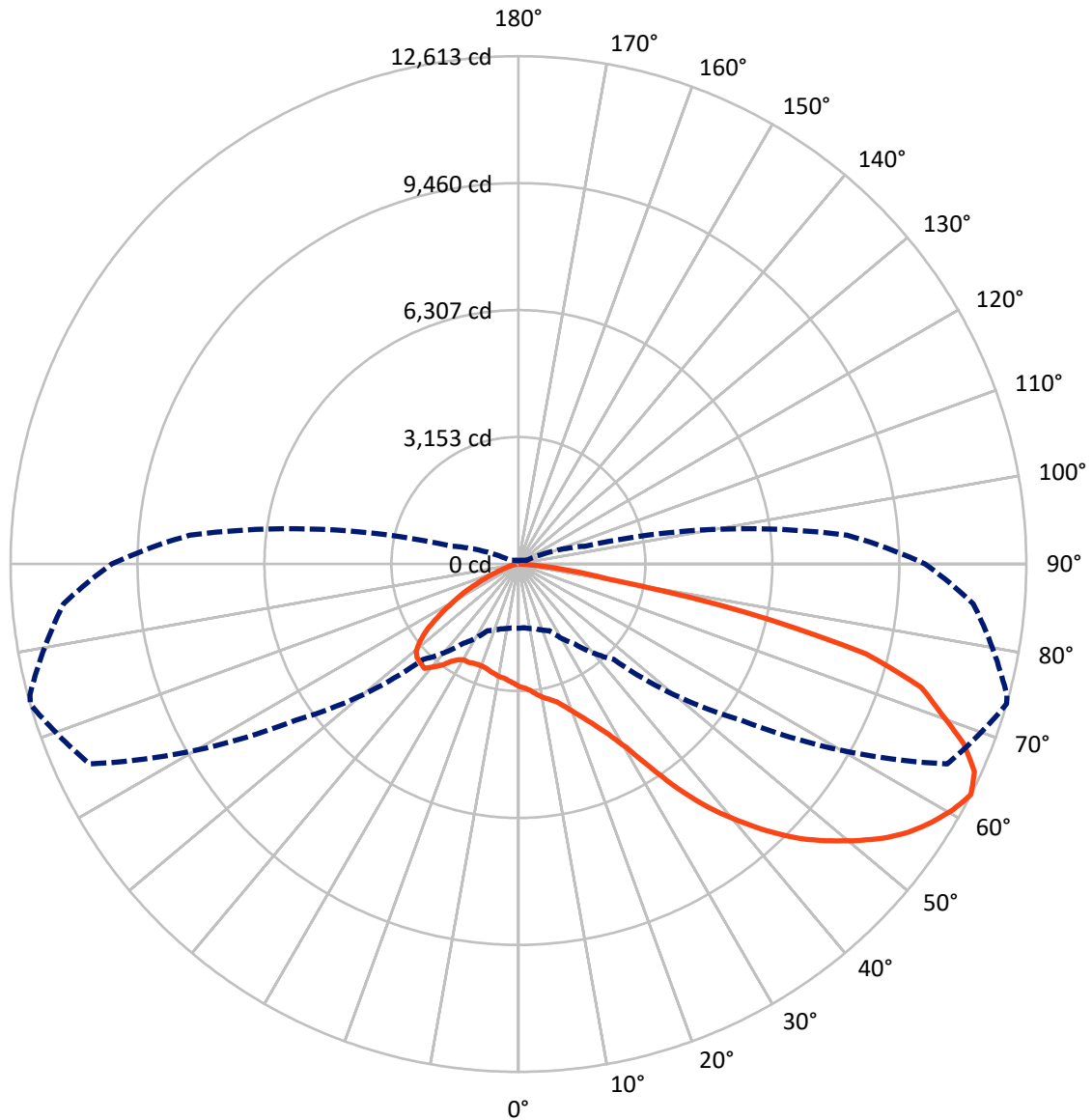
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

REPORT NUMBER: P509220
CATALOG NUMBER: VERD-CA2-130-740-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509220
 CATALOG NUMBER: VERD-CA2-130-740-U-T2-HSS

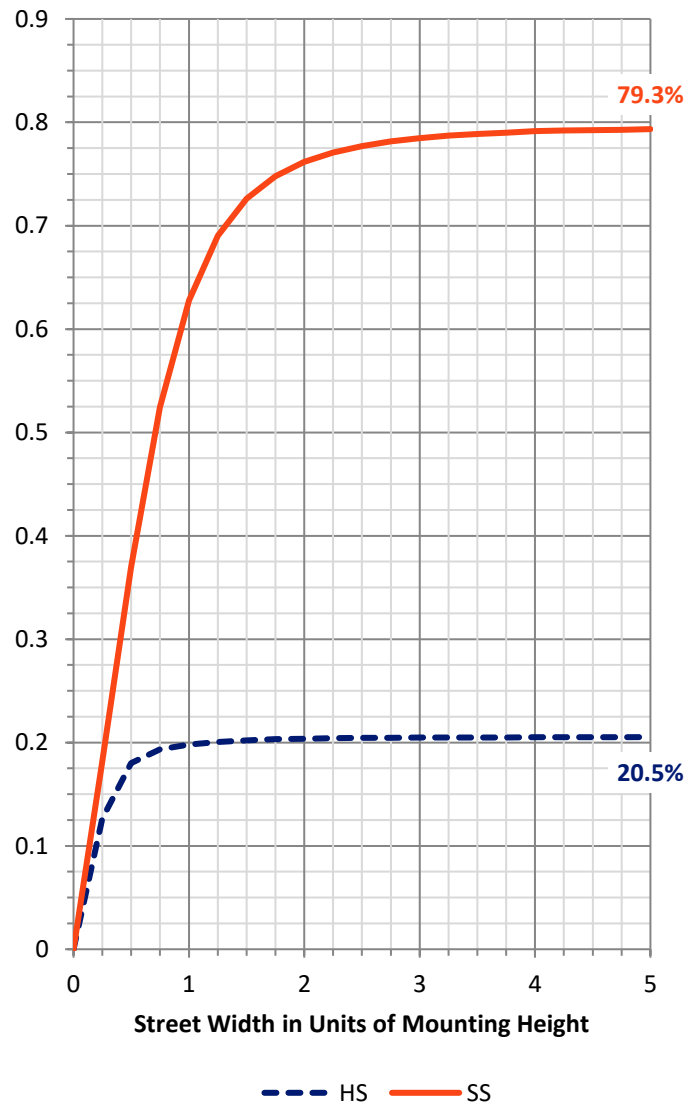
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3446.9	0.0	3446.9
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	13152.1	0.0	13152.1
	% Fixture	79.2	0.0	79.2
Total	Lumens	16599.0	0.0	16599.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.0	1.7
10°-20°	876.1	5.3
20°-30°	1479.1	8.9
30°-40°	2200.0	13.3
40°-50°	2977.6	17.9
50°-60°	3425.7	20.6
60°-70°	3306.7	19.9
70°-80°	1872.1	11.3
80°-90°	171.7	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°	16599.0	100.0
0°-180°	16599.0	100.0



REPORT NUMBER: P509220

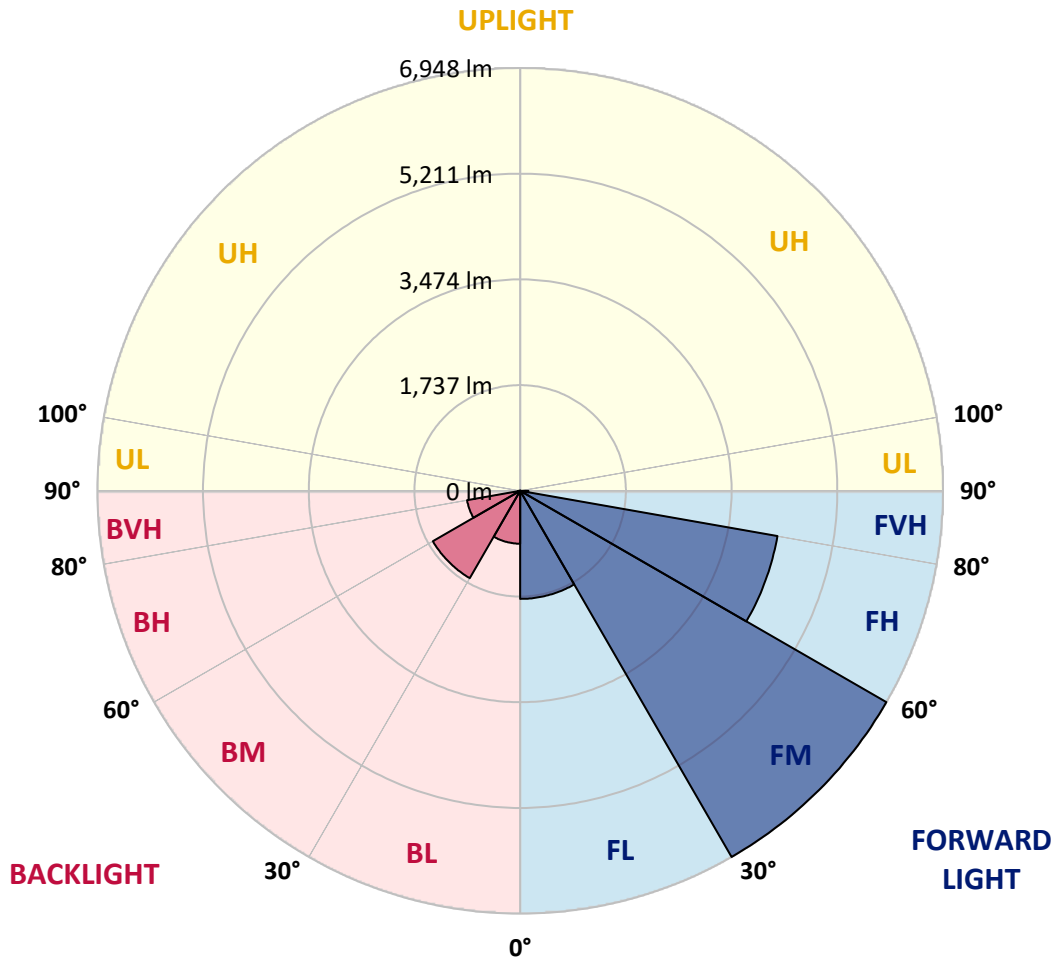
CATALOG NUMBER: VERD-CA2-130-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1776.1	10.7			
FM (30°-60°)	6948.0	41.9			
FH (60°-80°)	4292.7	25.9			G2/5000
FVH (80°-90°)	135.3	0.8			G2/225
BL (0°-30°)	869.1	5.2	B2/1000		
BM (30°-60°)	1655.2	10.0	B2/2500		
BH (60°-80°)	886.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	36.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P509220

CATALOG NUMBER: VERD-CA2-130-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5
2.5°	3317.5	3295.7	3277.9	3268.0	3240.3	3216.6	3169.1	3119.7	3086.0	3084.1	3052.4
5°	3456.0	3454.0	3414.4	3406.5	3368.9	3357.1	3309.6	3238.4	3155.3	3145.4	3060.3
7.5°	3638.0	3616.2	3572.7	3554.9	3511.4	3479.7	3416.4	3349.1	3266.1	3256.2	3107.8
10°	3814.0	3802.2	3776.4	3778.4	3717.1	3657.7	3562.8	3448.1	3368.9	3357.1	3175.1
12.5°	4017.8	3980.2	3936.7	3912.9	3851.6	3814.0	3723.0	3572.7	3448.1	3436.2	3254.2
15°	4158.2	4138.5	4098.9	4083.1	4023.7	3962.4	3857.5	3740.8	3552.9	3541.0	3335.3
17.5°	4308.6	4298.7	4253.2	4243.3	4185.9	4112.7	4031.6	3879.3	3715.1	3695.3	3432.2
20°	4409.5	4391.7	4385.7	4383.8	4367.9	4322.4	4219.6	4100.9	3918.9	3883.3	3556.9
22.5°	4544.0	4526.2	4534.1	4542.0	4563.8	4544.0	4476.7	4336.3	4156.3	4124.6	3752.7
25°	4557.8	4546.0	4599.4	4710.2	4753.7	4775.4	4724.0	4615.2	4441.1	4399.6	3986.1
27.5°	4595.4	4577.6	4635.0	4751.7	4947.5	4981.2	4991.1	4939.6	4793.2	4769.5	4302.6
30°	4528.2	4516.3	4605.3	4805.1	5024.7	5214.6	5287.8	5359.0	5291.8	5250.2	4743.8
32.5°	4364.0	4371.9	4488.6	4753.7	5159.2	5452.0	5641.9	5893.1	6013.8	6005.9	5525.2
35°	4124.6	4120.6	4316.5	4690.4	5171.1	5675.5	6029.6	6540.0	6878.3	6854.6	6346.2
37.5°	3920.8	3911.0	4132.5	4530.1	5181.0	5853.6	6484.6	7246.2	7675.5	7651.8	7016.8
40°	3671.6	3687.4	3885.2	4344.2	5097.9	5986.1	6880.3	7932.7	8371.9	8371.9	7711.1
42.5°	3420.4	3434.2	3630.0	4085.0	4977.2	6083.1	7252.2	8617.2	9064.2	9074.1	8187.9
45°	3200.8	3206.7	3384.7	3794.2	4759.6	6098.9	7594.4	9303.6	9713.1	9687.4	8731.9
47.5°	2815.0	2880.3	3159.2	3533.1	4462.9	6029.6	7883.2	9914.9	10271.0	10217.5	9250.2
50°	2243.3	2243.3	2629.1	3283.9	4122.6	5845.7	8110.7	10472.7	10801.1	10751.7	9703.2
52.5°	2061.3	2065.3	2184.0	2933.7	3778.4	5529.1	8241.3	11026.6	11321.4	11287.8	10132.5
55°	1964.4	1970.3	2025.7	2377.8	3465.9	5044.5	8245.3	11455.9	11762.5	11687.4	10494.5
57.5°	1818.0	1808.1	1924.8	2118.7	3099.9	4419.4	8051.4	11788.3	12104.8	12047.4	10791.2
60°	1715.1	1699.3	1778.4	1952.5	2706.2	3772.5	7535.1	12029.6	12397.6	12431.2	11082.0
62.5°	1594.5	1588.5	1663.7	1827.9	2415.4	3349.1	6759.6	11748.7	12613.2	12559.8	11339.2
65°	1473.8	1461.9	1533.1	1661.7	2134.5	3002.9	5978.2	11333.3	12447.0	12494.5	11390.6
67.5°	1315.5	1313.5	1380.8	1475.8	1827.9	2615.2	4846.7	10787.3	11932.7	11899.0	10923.8
70°	1123.6	1123.6	1190.9	1274.0	1527.2	2231.4	3721.0	9851.6	11141.4	11337.2	10124.6
72.5°	908.0	912.0	979.2	1074.2	1260.1	1818.0	2743.8	8567.7	10454.9	10140.4	8997.0
75°	484.7	435.2	767.6	864.5	1016.8	1450.0	1877.3	5570.7	8915.9	8698.3	7463.9
77.5°	116.7	122.7	241.3	449.1	542.0	803.2	923.8	2579.6	5748.7	6094.9	5323.4
80°	77.2	85.1	130.6	318.5	362.0	427.3	366.0	1123.6	2229.5	2375.9	3090.0
82.5°	39.6	43.5	81.1	126.6	128.6	110.8	138.5	565.8	1179.0	1277.9	1485.6
85°	13.8	21.8	41.5	55.4	51.4	41.5	33.6	140.5	278.9	310.6	322.5
87.5°	0.0	0.0	5.9	5.9	4.0	4.0	5.9	5.9	7.9	5.9	5.9
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: P509220

CATALOG NUMBER: VERD-CA2-130-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5
2.5°	3026.7	3004.9	2971.3	2935.7	2898.1	2866.5	2848.6	2858.5	2870.4	2832.8	2819.0
5°	3020.8	2983.2	2919.9	2844.7	2787.3	2730.0	2662.7	2646.9	2631.0	2611.3	2589.5
7.5°	3048.4	2993.1	2864.5	2795.2	2674.6	2567.7	2508.4	2464.9	2425.3	2389.7	2367.9
10°	3099.9	2997.0	2852.6	2712.2	2579.6	2449.0	2320.5	2294.7	2286.8	2235.4	2197.8
12.5°	3133.5	3006.9	2811.1	2640.9	2451.0	2310.6	2182.0	2108.8	2102.9	2079.1	2053.4
15°	3186.9	3046.5	2783.4	2551.9	2320.5	2172.1	2053.4	1958.4	1911.0	1909.0	1889.2
17.5°	3283.9	3092.0	2739.8	2460.9	2215.6	2049.4	1879.3	1843.7	1764.6	1719.1	1707.2
20°	3382.8	3159.2	2728.0	2369.9	2079.1	1873.4	1742.8	1643.9	1580.6	1533.1	1503.5
22.5°	3511.4	3256.2	2731.9	2316.5	1968.3	1740.8	1570.7	1424.3	1307.6	1250.2	1222.5
25°	3697.3	3368.9	2761.6	2235.4	1837.8	1598.4	1351.1	1157.3	993.1	951.5	931.7
27.5°	3934.7	3527.2	2803.1	2152.3	1717.1	1406.5	1086.0	868.4	731.9	700.3	680.5
30°	4298.7	3764.6	2809.1	2100.9	1608.3	1157.3	813.1	642.9	536.1	502.5	506.4
32.5°	4983.2	4273.0	2888.2	1994.1	1414.4	888.2	597.4	468.8	387.7	375.9	395.6
35°	5778.4	4872.4	3040.5	1938.7	1192.9	642.9	427.3	344.2	292.8	308.6	316.5
37.5°	6290.8	5400.6	3283.9	1812.1	933.7	472.8	298.7	269.0	259.1	269.0	286.8
40°	6888.2	5829.8	3491.6	1683.5	662.7	324.4	239.4	245.3	233.4	231.5	239.4
42.5°	7372.9	6271.0	3713.1	1471.8	460.9	241.3	219.6	223.5	215.6	205.7	205.7
45°	7833.8	6652.8	3711.2	1186.9	304.6	213.6	201.8	209.7	207.7	193.9	191.9
47.5°	8237.3	7038.5	3713.1	862.5	231.5	195.8	187.9	195.8	195.8	184.0	182.0
50°	8737.8	7359.0	3653.8	551.9	211.7	182.0	180.0	178.0	186.0	170.1	166.2
52.5°	9044.5	7592.4	3386.7	371.9	195.8	172.1	168.1	164.2	168.1	154.3	154.3
55°	9380.8	7883.2	3038.6	294.8	186.0	160.2	158.3	154.3	154.3	138.5	140.5
57.5°	9746.7	8120.6	2569.7	259.1	178.0	152.3	148.4	142.4	134.5	122.7	120.7
60°	10011.8	8170.1	2102.9	235.4	172.1	148.4	132.5	124.6	110.8	102.9	100.9
62.5°	10100.8	8195.8	1705.2	211.7	162.2	136.5	118.7	104.8	89.0	83.1	83.1
65°	10027.6	7899.1	1277.9	191.9	150.3	126.6	104.8	85.1	69.2	63.3	61.3
67.5°	9556.8	7353.1	929.8	172.1	132.5	114.7	91.0	69.2	55.4	49.5	49.5
70°	8700.2	6710.1	629.1	144.4	114.7	100.9	85.1	55.4	45.5	39.6	37.6
72.5°	7766.5	5689.4	401.6	116.7	89.0	79.1	61.3	47.5	37.6	29.7	29.7
75°	6142.4	4468.8	278.9	85.1	63.3	59.3	47.5	39.6	31.7	23.7	23.7
77.5°	4275.0	2904.0	219.6	65.3	43.5	39.6	35.6	29.7	25.7	19.8	17.8
80°	2478.7	1746.8	132.5	43.5	29.7	25.7	23.7	23.7	19.8	13.8	13.8
82.5°	1230.5	728.0	57.4	27.7	19.8	17.8	15.8	13.8	13.8	9.9	9.9
85°	241.3	124.6	21.8	13.8	9.9	9.9	7.9	7.9	5.9	4.0	4.0
87.5°	7.9	5.9	5.9	5.9	4.0	4.0	2.0	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)