

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: P509076

Luminaire Tested: **VERD-CA2-100-740-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509076
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-CA2-100-740-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1370mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12683 lumens
Efficiency: N/A
Efficacy: 122.7 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

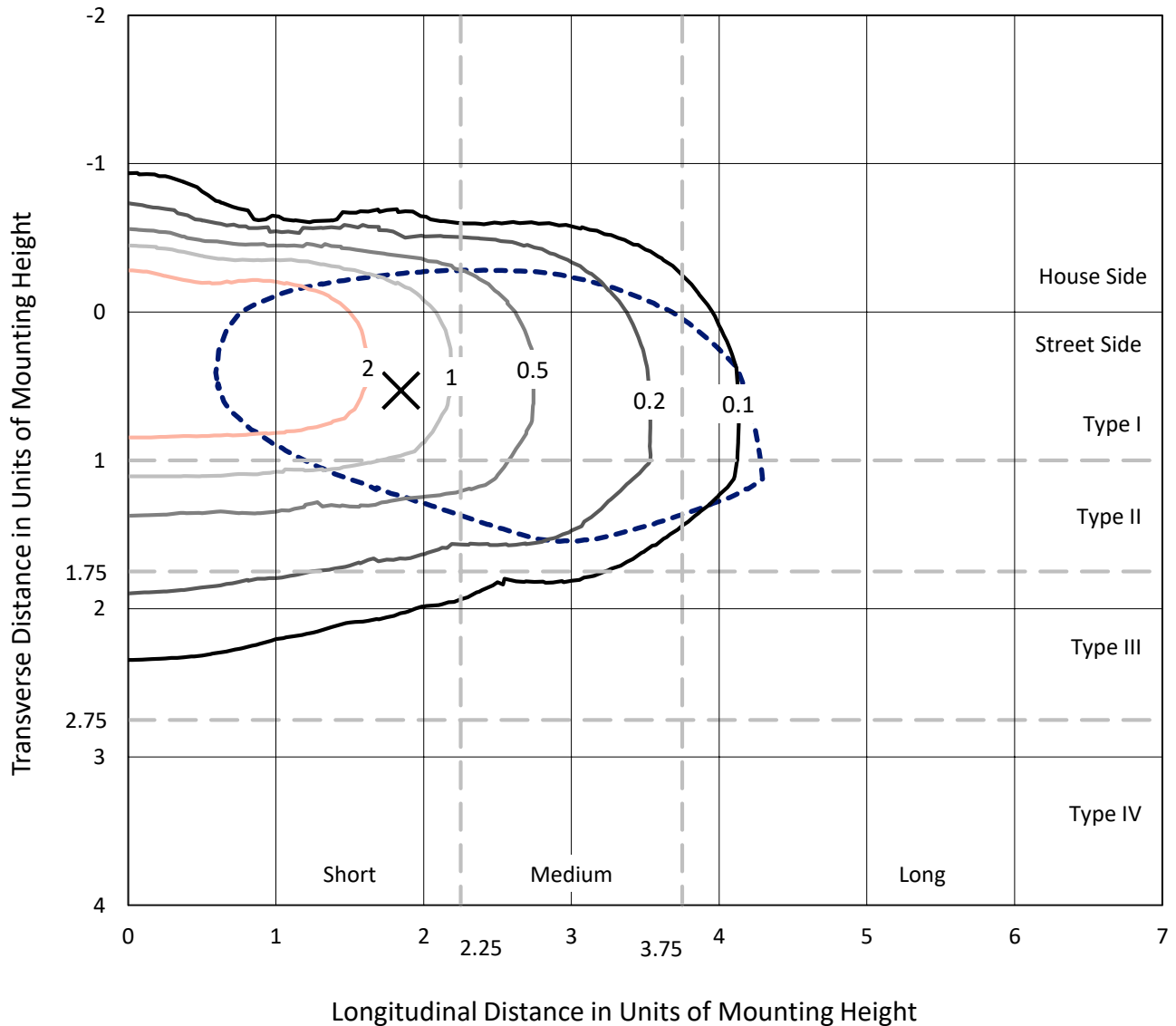
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509076
 CATALOG NUMBER: VERD-CA2-100-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

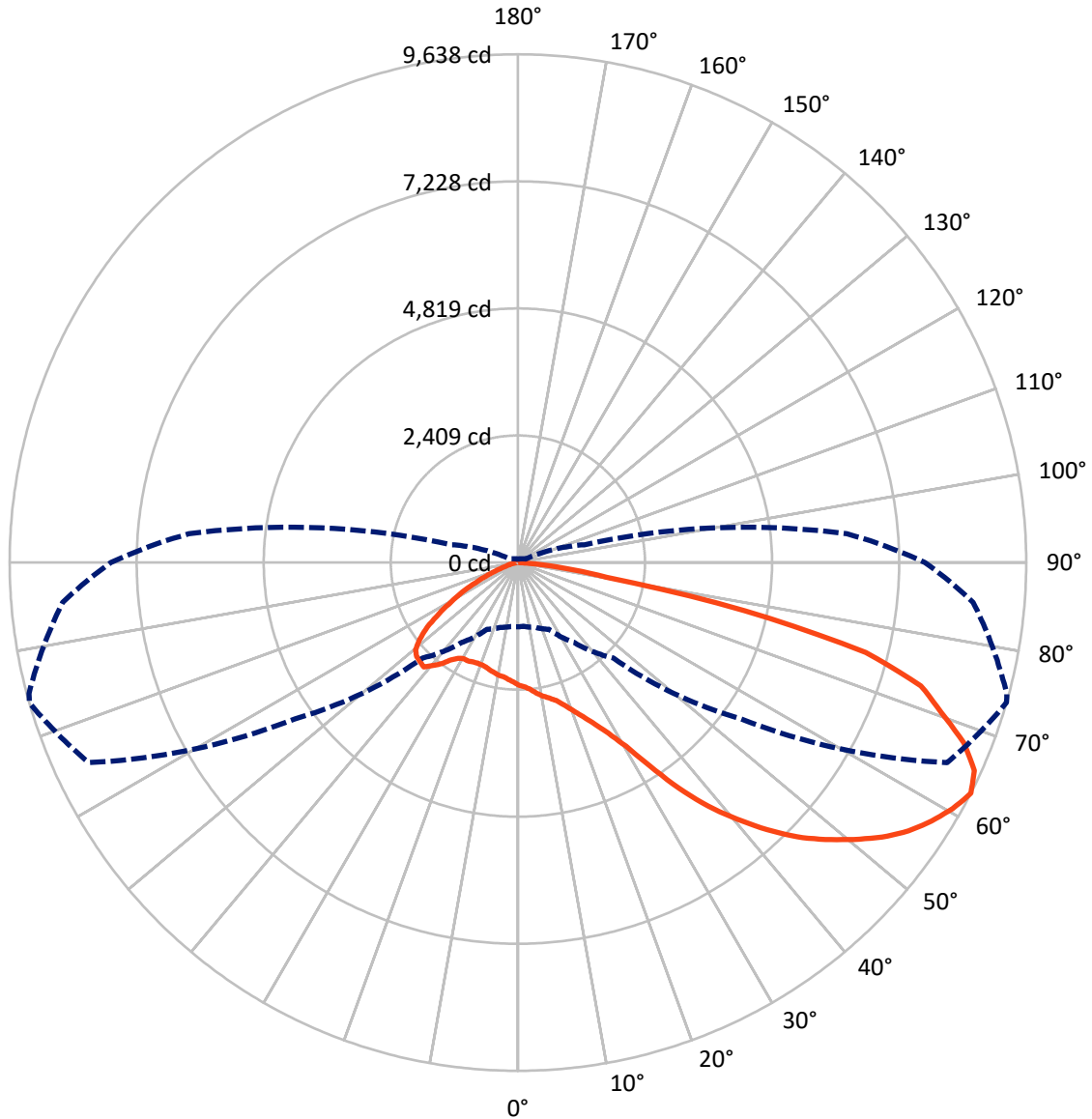
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

REPORT NUMBER: P509076
CATALOG NUMBER: VERD-CA2-100-740-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509076

CATALOG NUMBER: VERD-CA2-100-740-U-T2-HSS

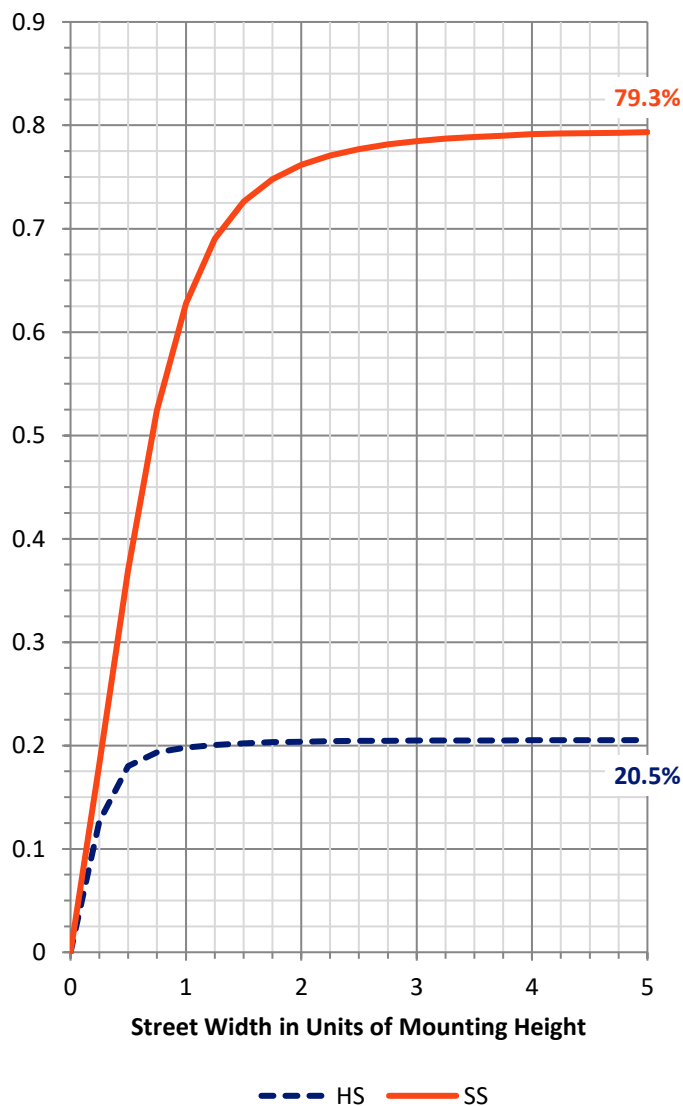
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2633.7	0.0	2633.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	10049.3	0.0	10049.3
	% Fixture	79.2	0.0	79.2
Total	Lumens	12683.0	0.0	12683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	1.7
10°-20°	669.4	5.3
20°-30°	1130.1	8.9
30°-40°	1681.0	13.3
40°-50°	2275.1	17.9
50°-60°	2617.5	20.6
60°-70°	2526.6	19.9
70°-80°	1430.5	11.3
80°-90°	131.2	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°	12683.0	100.0
0°-180°	12683.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509076

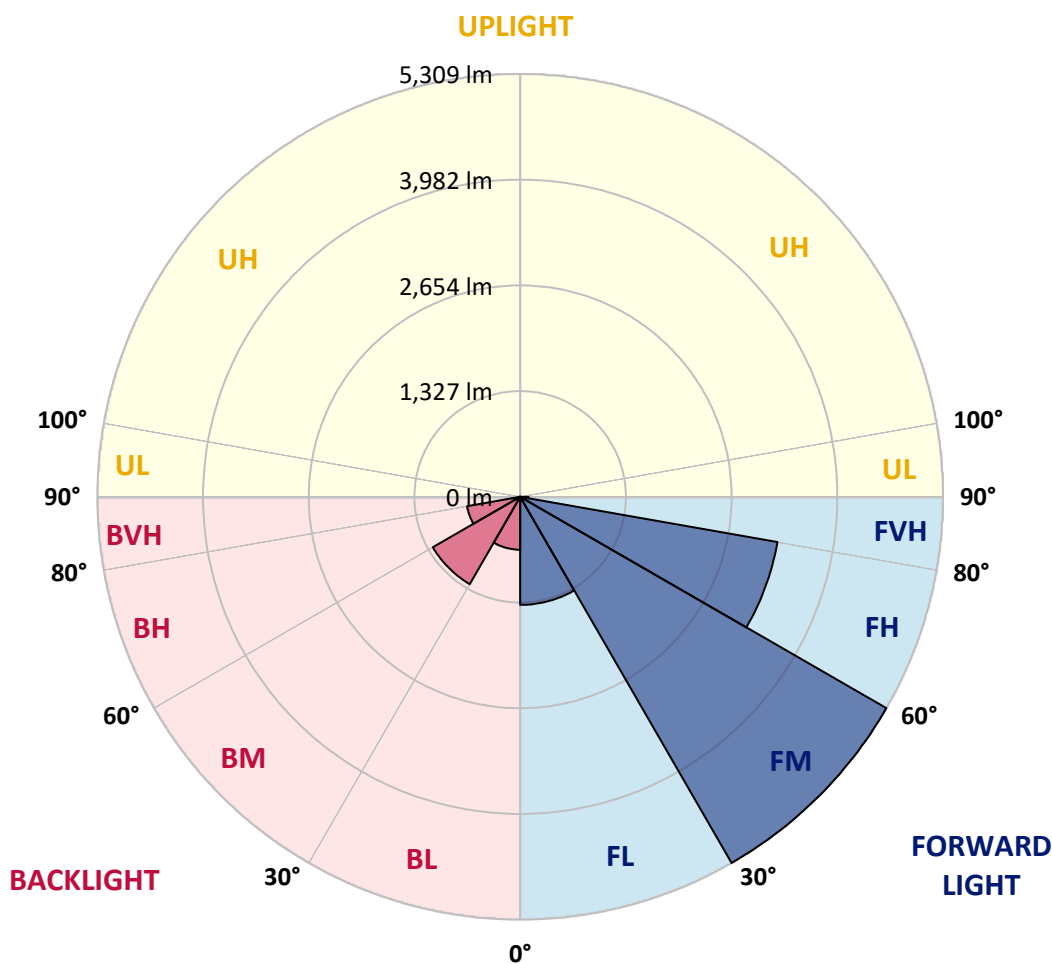
CATALOG NUMBER: VERD-CA2-100-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1357.1	10.7			
FM	(30°-60°)	5308.9	41.9			
FH	(60°-80°)	3280.0	25.9			G2/5000
FVH	(80°-90°)	103.4	0.8			G2/225
BL	(0°-30°)	664.1	5.2	B2/1000		
BM	(30°-60°)	1264.7	10.0	B2/2500		
BH	(60°-80°)	677.1	5.3	B2/1000		G2/1000
BVH	(80°-90°)	27.8	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: P509076

CATALOG NUMBER: VERD-CA2-100-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7
2.5°	2534.8	2518.2	2504.6	2497.0	2475.9	2457.7	2421.5	2383.7	2358.0	2356.5	2332.3
5°	2640.6	2639.1	2608.9	2602.9	2574.1	2565.1	2528.8	2474.4	2410.9	2403.3	2338.3
7.5°	2779.7	2763.1	2729.8	2716.2	2683.0	2658.8	2610.4	2559.0	2495.5	2488.0	2374.6
10°	2914.2	2905.2	2885.5	2887.0	2840.2	2794.8	2722.3	2634.6	2574.1	2565.1	2426.0
12.5°	3069.9	3041.2	3007.9	2989.8	2942.9	2914.2	2844.7	2729.8	2634.6	2625.5	2486.5
15°	3177.2	3162.1	3131.9	3119.8	3074.4	3027.6	2947.5	2858.3	2714.7	2705.6	2548.4
17.5°	3292.1	3284.6	3249.8	3242.2	3198.4	3142.5	3080.5	2964.1	2838.7	2823.5	2622.5
20°	3369.2	3355.6	3351.1	3349.5	3337.5	3302.7	3224.1	3133.4	2994.3	2967.1	2717.7
22.5°	3472.0	3458.4	3464.4	3470.5	3487.1	3472.0	3420.6	3313.3	3175.7	3151.5	2867.4
25°	3482.6	3473.5	3514.3	3598.9	3632.2	3648.8	3609.5	3526.4	3393.4	3361.6	3045.7
27.5°	3511.3	3497.7	3541.5	3630.7	3780.3	3806.0	3813.6	3774.3	3662.4	3644.3	3287.6
30°	3459.9	3450.8	3518.8	3671.5	3839.3	3984.4	4040.3	4094.7	4043.3	4011.6	3624.6
32.5°	3334.4	3340.5	3429.7	3632.2	3942.1	4165.8	4310.9	4502.8	4595.0	4589.0	4221.7
35°	3151.5	3148.5	3298.2	3583.8	3951.1	4336.6	4607.1	4997.1	5255.6	5237.4	4849.0
37.5°	2995.8	2988.3	3157.6	3461.4	3958.7	4472.6	4954.8	5536.7	5864.7	5846.6	5361.4
40°	2805.4	2817.5	2968.6	3319.3	3895.2	4573.9	5257.1	6061.2	6396.8	6396.8	5891.9
42.5°	2613.4	2624.0	2773.7	3121.3	3803.0	4648.0	5541.3	6584.2	6925.8	6933.4	6256.2
45°	2445.7	2450.2	2586.2	2899.1	3636.7	4660.0	5802.8	7108.7	7421.6	7402.0	6671.9
47.5°	2150.9	2200.8	2413.9	2699.6	3410.0	4607.1	6023.4	7575.8	7847.9	7807.0	7067.9
50°	1714.1	1714.1	2008.8	2509.1	3150.0	4466.6	6197.3	8002.0	8252.9	8215.2	7414.0
52.5°	1575.0	1578.0	1668.7	2241.6	2887.0	4224.7	6297.0	8425.3	8650.5	8624.8	7742.0
55°	1500.9	1505.5	1547.8	1816.9	2648.2	3854.4	6300.1	8753.3	8987.5	8930.1	8018.7
57.5°	1389.1	1381.5	1470.7	1618.8	2368.6	3376.8	6151.9	9007.2	9249.0	9205.2	8245.4
60°	1310.5	1298.4	1358.9	1491.9	2067.8	2882.5	5757.4	9191.6	9472.7	9498.4	8467.6
62.5°	1218.3	1213.8	1271.2	1396.7	1845.6	2559.0	5164.9	8977.0	9637.5	9596.7	8664.1
65°	1126.1	1117.0	1171.4	1269.7	1630.9	2294.5	4567.8	8659.5	9510.5	9546.8	8703.4
67.5°	1005.2	1003.7	1055.0	1127.6	1396.7	1998.2	3703.2	8242.4	9117.5	9091.8	8346.7
70°	858.5	858.5	909.9	973.4	1166.9	1705.0	2843.2	7527.4	8512.9	8662.6	7736.0
72.5°	693.8	696.8	748.2	820.8	962.8	1389.1	2096.5	6546.4	7988.4	7748.1	6874.4
75°	370.3	332.5	586.5	660.5	776.9	1108.0	1434.4	4256.5	6812.5	6646.2	5703.0
77.5°	89.2	93.7	184.4	343.1	414.2	613.7	705.9	1971.0	4392.5	4657.0	4067.5
80°	58.9	65.0	99.8	243.4	276.6	326.5	279.6	858.5	1703.5	1815.3	2361.0
82.5°	30.2	33.3	62.0	96.7	98.2	84.6	105.8	432.3	900.9	976.4	1135.2
85°	10.6	16.6	31.7	42.3	39.3	31.7	25.7	107.3	213.1	237.3	246.4
87.5°	0.0	0.0	4.5	4.5	3.0	3.0	4.5	4.5	6.0	4.5	4.5
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: P509076

CATALOG NUMBER: VERD-CA2-100-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7
2.5°	2312.6	2296.0	2270.3	2243.1	2214.4	2190.2	2176.6	2184.2	2193.2	2164.5	2153.9
5°	2308.1	2279.4	2231.0	2173.6	2129.7	2085.9	2034.5	2022.4	2010.3	1995.2	1978.6
7.5°	2329.3	2286.9	2188.7	2135.8	2043.6	1962.0	1916.6	1883.4	1853.1	1825.9	1809.3
10°	2368.6	2290.0	2179.6	2072.3	1971.0	1871.3	1773.0	1753.4	1747.3	1708.0	1679.3
12.5°	2394.3	2297.5	2147.9	2017.9	1872.8	1765.5	1667.2	1611.3	1606.8	1588.6	1569.0
15°	2435.1	2327.8	2126.7	1949.9	1773.0	1659.7	1569.0	1496.4	1460.1	1458.6	1443.5
17.5°	2509.1	2362.5	2093.5	1880.3	1692.9	1565.9	1436.0	1408.7	1348.3	1313.5	1304.4
20°	2584.7	2413.9	2084.4	1810.8	1588.6	1431.4	1331.7	1256.1	1207.7	1171.4	1148.8
22.5°	2683.0	2488.0	2087.4	1770.0	1504.0	1330.1	1200.2	1088.3	999.1	955.3	934.1
25°	2825.0	2574.1	2110.1	1708.0	1404.2	1221.3	1032.4	884.2	758.8	727.0	711.9
27.5°	3006.4	2695.1	2141.8	1644.5	1312.0	1074.7	829.8	663.6	559.3	535.1	520.0
30°	3284.6	2876.4	2146.4	1605.2	1228.9	884.2	621.2	491.2	409.6	383.9	387.0
32.5°	3807.5	3264.9	2206.8	1523.6	1080.7	678.7	456.5	358.2	296.3	287.2	302.3
35°	4415.2	3722.9	2323.2	1481.3	911.5	491.2	326.5	263.0	223.7	235.8	241.8
37.5°	4806.7	4126.5	2509.1	1384.6	713.4	361.3	228.2	205.6	198.0	205.6	219.2
40°	5263.1	4454.5	2667.8	1286.3	506.4	247.9	182.9	187.4	178.4	176.8	182.9
42.5°	5633.5	4791.5	2837.1	1124.6	352.2	184.4	167.8	170.8	164.8	157.2	157.2
45°	5985.7	5083.3	2835.6	906.9	232.8	163.2	154.2	160.2	158.7	148.1	146.6
47.5°	6294.0	5378.0	2837.1	659.0	176.8	149.6	143.6	149.6	149.6	140.6	139.1
50°	6676.4	5622.9	2791.8	421.7	161.7	139.1	137.5	136.0	142.1	130.0	127.0
52.5°	6910.7	5801.2	2587.7	284.2	149.6	131.5	128.5	125.5	128.5	117.9	117.9
55°	7167.7	6023.4	2321.7	225.2	142.1	122.4	120.9	117.9	117.9	105.8	107.3
57.5°	7447.3	6204.8	1963.5	198.0	136.0	116.4	113.4	108.8	102.8	93.7	92.2
60°	7649.8	6242.6	1606.8	179.9	131.5	113.4	101.3	95.2	84.6	78.6	77.1
62.5°	7717.9	6262.3	1302.9	161.7	123.9	104.3	90.7	80.1	68.0	63.5	63.5
65°	7661.9	6035.5	976.4	146.6	114.9	96.7	80.1	65.0	52.9	48.4	46.9
67.5°	7302.2	5618.4	710.4	131.5	101.3	87.7	69.5	52.9	42.3	37.8	37.8
70°	6647.7	5127.1	480.7	110.3	87.7	77.1	65.0	42.3	34.8	30.2	28.7
72.5°	5934.3	4347.2	306.8	89.2	68.0	60.5	46.9	36.3	28.7	22.7	22.7
75°	4693.3	3414.5	213.1	65.0	48.4	45.3	36.3	30.2	24.2	18.1	18.1
77.5°	3266.4	2218.9	167.8	49.9	33.3	30.2	27.2	22.7	19.6	15.1	13.6
80°	1893.9	1334.7	101.3	33.3	22.7	19.6	18.1	18.1	15.1	10.6	10.6
82.5°	940.2	556.2	43.8	21.2	15.1	13.6	12.1	10.6	10.6	7.6	7.6
85°	184.4	95.2	16.6	10.6	7.6	7.6	6.0	6.0	4.5	3.0	3.0
87.5°	6.0	4.5	4.5	4.5	3.0	3.0	1.5	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)