

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: P509132

Luminaire Tested: **VERD-CA2-110-750-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509132
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-CA2-110-750-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14892 lumens
Efficiency: N/A
Efficacy: 131.1 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

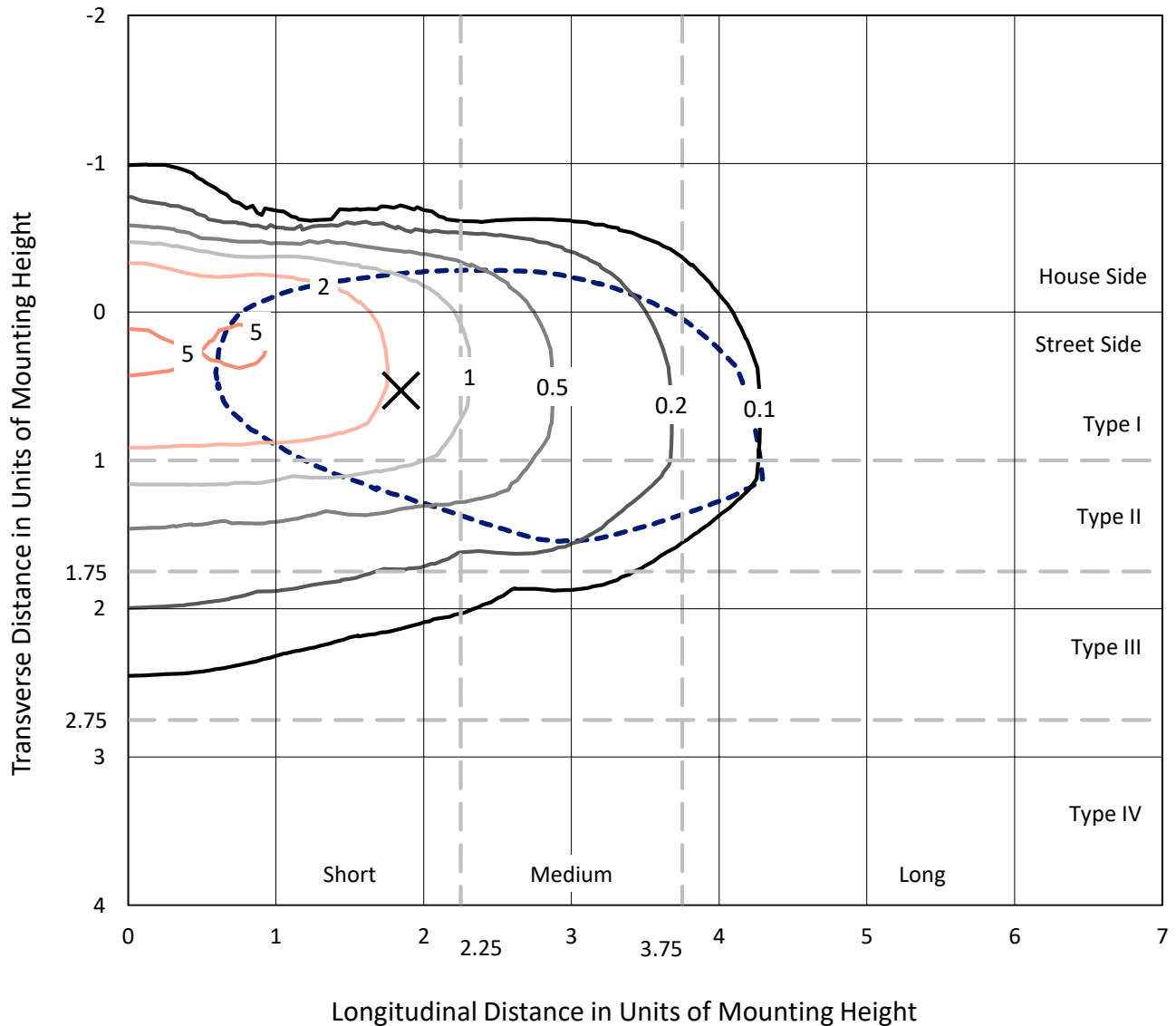
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

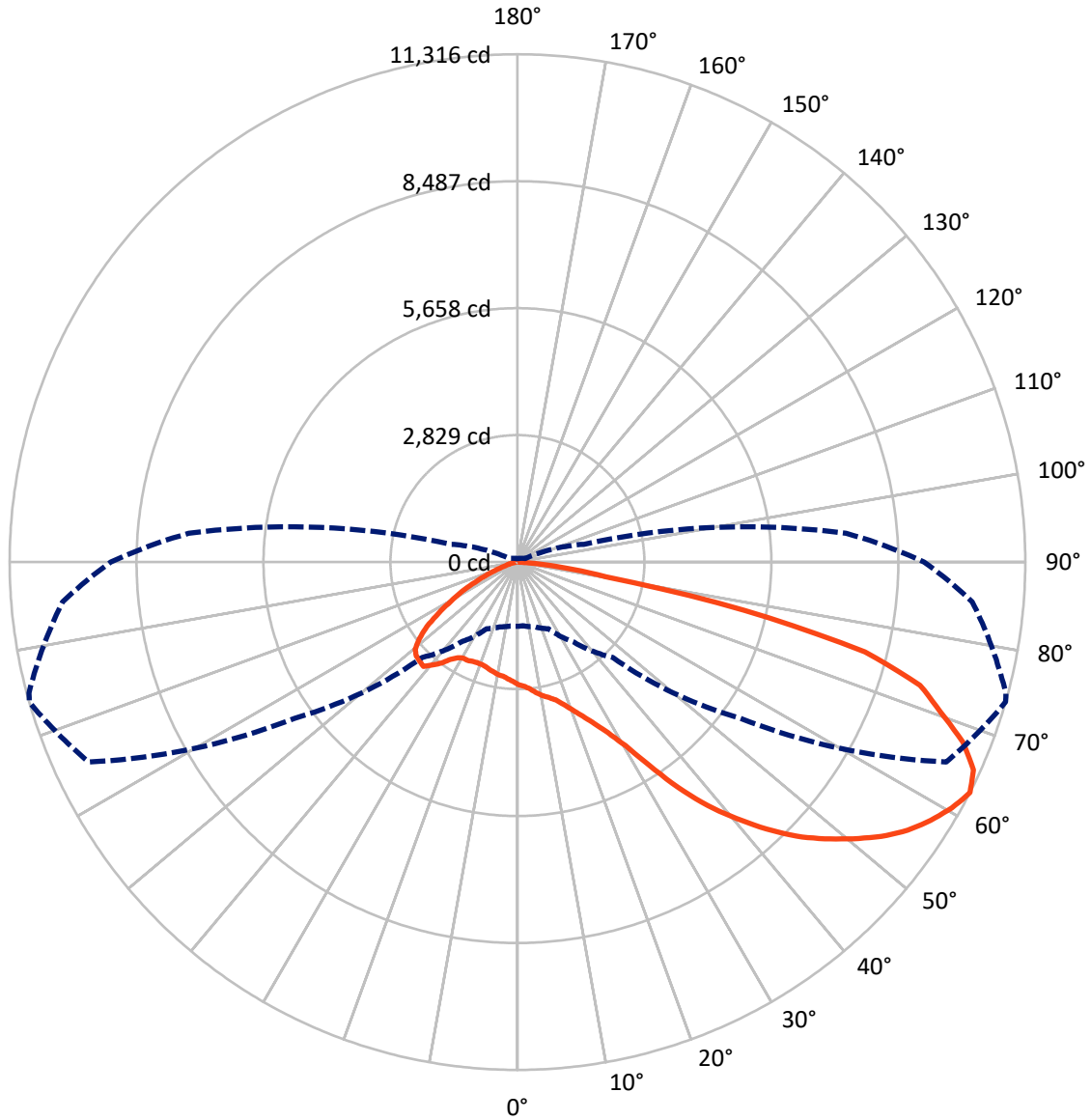
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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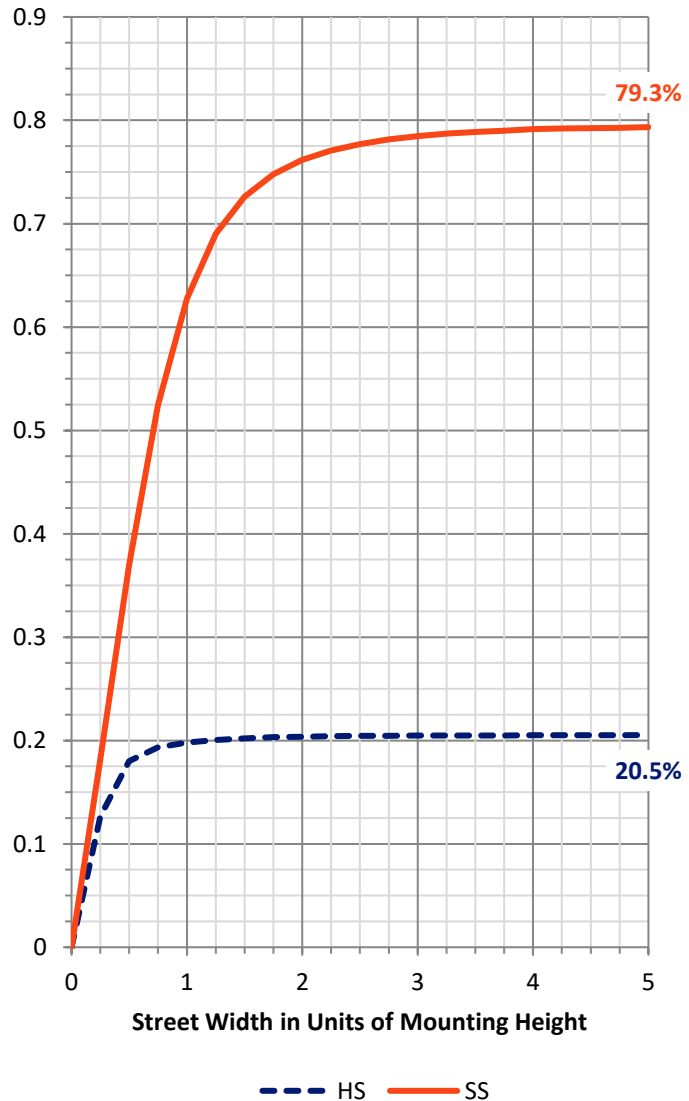
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3092.4	0.0	3092.4
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	11799.6	0.0	11799.6
	% Fixture	79.2	0.0	79.2
Total	Lumens	14892.0	0.0	14892.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.2	1.7
10°-20°	786.0	5.3
20°-30°	1327.0	8.9
30°-40°	1973.8	13.3
40°-50°	2671.4	17.9
50°-60°	3073.4	20.6
60°-70°	2966.6	19.9
70°-80°	1679.6	11.3
80°-90°	154.1	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°	14892.0	100.0
0°-180°	14892.0	100.0



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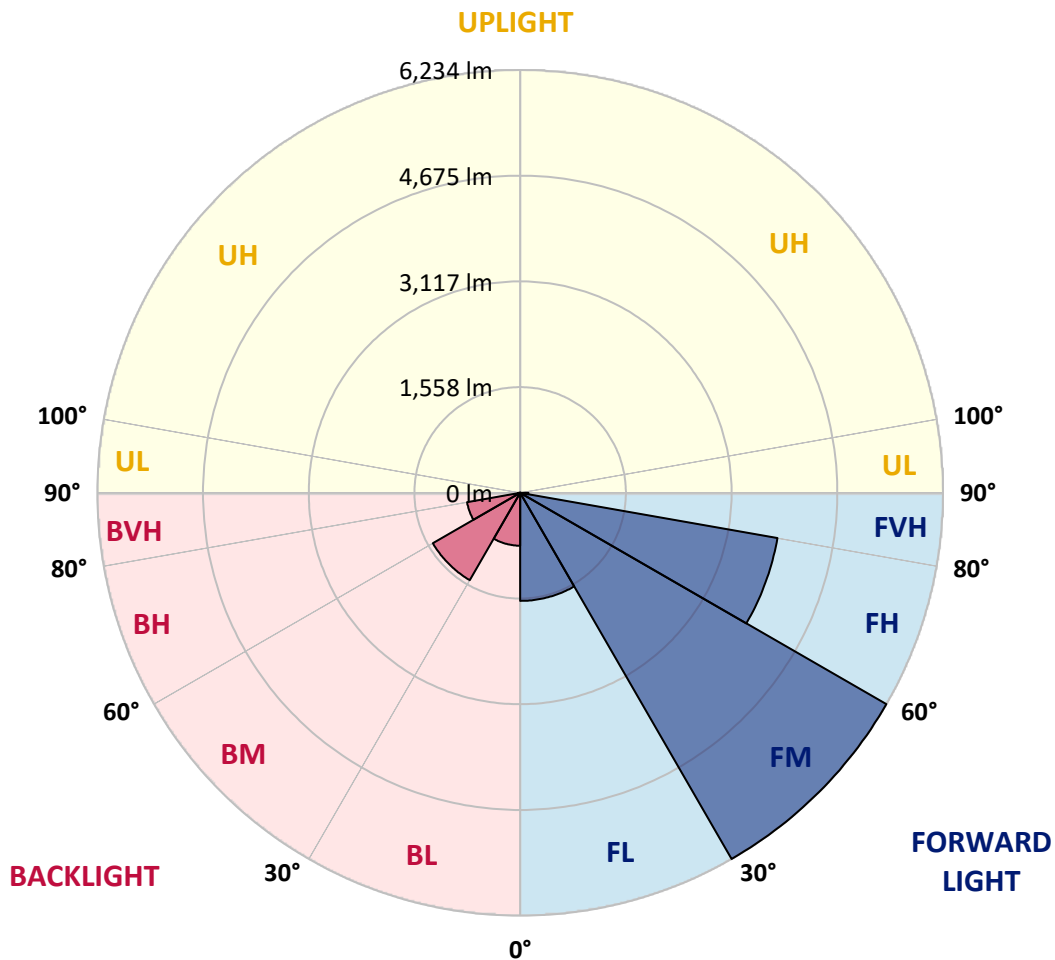
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.4	10.7			
FM (30°-60°)	6233.5	41.9			
FH (60°-80°)	3851.2	25.9			G2/5000
FVH (80°-90°)	121.4	0.8			G2/225
BL (0°-30°)	779.7	5.2	B2/1000		
BM (30°-60°)	1485.0	10.0	B2/2500		
BH (60°-80°)	795.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	32.7	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°	74°	75°	85°
0°	2729.6	2729.6	2729.6	2729.6	2729.6	2729.6	2729.6	2729.6	2729.6	2729.6	2729.6
2.5°	2976.3	2956.8	2940.8	2932.0	2907.1	2885.8	2843.2	2798.8	2768.7	2766.9	2738.5
5°	3100.6	3098.8	3063.3	3056.2	3022.5	3011.8	2969.2	2905.3	2830.8	2821.9	2745.6
7.5°	3263.8	3244.3	3205.3	3189.3	3150.3	3121.9	3065.1	3004.7	2930.2	2921.3	2788.2
10°	3421.8	3411.1	3388.1	3389.9	3334.8	3281.6	3196.4	3093.5	3022.5	3011.8	2848.5
12.5°	3604.6	3570.9	3531.8	3510.5	3455.5	3421.8	3340.2	3205.3	3093.5	3082.8	2919.5
15°	3730.6	3712.9	3677.4	3663.2	3609.9	3554.9	3460.8	3356.1	3187.5	3176.9	2992.3
17.5°	3865.5	3856.6	3815.8	3806.9	3755.5	3689.8	3617.0	3480.4	3333.1	3315.3	3079.3
20°	3956.0	3940.0	3934.7	3932.9	3918.7	3877.9	3785.6	3679.1	3515.9	3483.9	3191.1
22.5°	4076.7	4060.7	4067.8	4074.9	4094.4	4076.7	4016.4	3890.3	3728.8	3700.4	3366.8
25°	4089.1	4078.5	4126.4	4225.8	4264.8	4284.3	4238.2	4140.6	3984.4	3947.1	3576.2
27.5°	4122.8	4106.9	4158.3	4263.0	4438.8	4468.9	4477.8	4431.7	4300.3	4279.0	3860.2
30°	4062.5	4051.8	4131.7	4311.0	4508.0	4678.4	4744.0	4807.9	4747.6	4710.3	4256.0
32.5°	3915.2	3922.3	4027.0	4264.8	4628.7	4891.3	5061.7	5287.1	5395.4	5388.3	4957.0
35°	3700.4	3696.9	3872.6	4208.0	4639.3	5091.9	5409.6	5867.5	6171.0	6149.7	5693.5
37.5°	3517.6	3508.8	3707.5	4064.3	4648.2	5251.6	5817.8	6501.1	6886.2	6864.9	6295.2
40°	3294.0	3308.2	3485.7	3897.4	4573.6	5370.5	6172.7	7116.9	7510.9	7510.9	6918.1
42.5°	3068.6	3081.0	3256.7	3664.9	4465.4	5457.5	6506.4	7731.0	8132.1	8141.0	7345.9
45°	2871.6	2876.9	3036.7	3404.1	4270.1	5471.7	6813.4	8346.8	8714.2	8691.2	7833.9
47.5°	2525.5	2584.1	2834.3	3169.8	4003.9	5409.6	7072.5	8895.3	9214.7	9166.8	8298.9
50°	2012.6	2012.6	2358.7	2946.2	3698.7	5244.5	7276.6	9395.7	9690.4	9646.0	8705.4
52.5°	1849.3	1852.9	1959.4	2632.0	3389.9	4960.5	7393.8	9892.7	10157.1	10127.0	9090.5
55°	1762.4	1767.7	1817.4	2133.3	3109.4	4525.7	7397.3	10277.8	10552.9	10485.5	9415.3
57.5°	1631.0	1622.2	1726.9	1900.8	2781.1	3964.9	7223.4	10576.0	10860.0	10808.5	9681.5
60°	1538.7	1524.5	1595.5	1751.7	2427.9	3384.5	6760.2	10792.5	11122.6	11152.8	9942.4
62.5°	1430.5	1425.2	1492.6	1639.9	2167.0	3004.7	6064.5	10540.5	11316.1	11268.2	10173.1
65°	1322.2	1311.6	1375.5	1490.8	1915.0	2694.1	5363.4	10167.8	11167.0	11209.6	10219.3
67.5°	1180.2	1178.5	1238.8	1324.0	1639.9	2346.3	4348.2	9677.9	10705.5	10675.4	9800.4
70°	1008.1	1008.1	1068.4	1143.0	1370.1	2002.0	3338.4	8838.5	9995.6	10171.3	9083.4
72.5°	814.6	818.2	878.5	963.7	1130.5	1631.0	2461.6	7686.6	9379.8	9097.6	8071.8
75°	434.8	390.5	688.6	775.6	912.2	1300.9	1684.3	4997.8	7999.0	7803.8	6696.3
77.5°	104.7	110.0	216.5	402.9	486.3	720.6	828.8	2314.3	5157.5	5468.1	4776.0
80°	69.2	76.3	117.1	285.7	324.8	383.4	328.3	1008.1	2000.2	2131.5	2772.2
82.5°	35.5	39.0	72.8	113.6	115.4	99.4	124.2	507.6	1057.8	1146.5	1332.9
85°	12.4	19.5	37.3	49.7	46.1	37.3	30.2	126.0	250.2	278.6	289.3
87.5°	0.0	0.0	5.3	5.3	3.5	3.5	5.3	5.3	7.1	5.3	5.3
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°	2729.6	2729.6	2729.6	2729.6	2729.6	2729.6	2729.6	2729.6	2729.6	2729.6	2729.6
2.5°	2715.4	2695.9	2665.7	2633.8	2600.1	2571.7	2555.7	2564.6	2575.2	2541.5	2529.1
5°	2710.1	2676.4	2619.6	2552.2	2500.7	2449.2	2388.9	2374.7	2360.5	2342.7	2323.2
7.5°	2735.0	2685.3	2569.9	2507.8	2399.5	2303.7	2250.4	2211.4	2175.9	2143.9	2124.4
10°	2781.1	2688.8	2559.2	2433.2	2314.3	2197.2	2081.8	2058.8	2051.7	2005.5	1971.8
12.5°	2811.3	2697.7	2522.0	2369.3	2199.0	2073.0	1957.6	1891.9	1886.6	1865.3	1842.2
15°	2859.2	2733.2	2497.1	2289.5	2081.8	1948.7	1842.2	1757.0	1714.4	1712.7	1694.9
17.5°	2946.2	2774.0	2458.1	2207.8	1987.8	1838.7	1686.1	1654.1	1583.1	1542.3	1531.6
20°	3034.9	2834.3	2447.4	2126.2	1865.3	1680.7	1563.6	1474.9	1418.1	1375.5	1348.8
22.5°	3150.3	2921.3	2451.0	2078.3	1765.9	1561.8	1409.2	1277.9	1173.1	1121.7	1096.8
25°	3317.1	3022.5	2477.6	2005.5	1648.8	1434.0	1212.2	1038.3	890.9	853.7	835.9
27.5°	3530.1	3164.5	2514.9	1931.0	1540.5	1261.9	974.4	779.1	656.7	628.3	610.5
30°	3856.6	3377.4	2520.2	1884.8	1442.9	1038.3	729.4	576.8	481.0	450.8	454.3
32.5°	4470.7	3833.6	2591.2	1789.0	1269.0	796.9	536.0	420.6	347.9	337.2	355.0
35°	5184.2	4371.3	2727.9	1739.3	1070.2	576.8	383.4	308.8	262.7	276.9	284.0
37.5°	5643.8	4845.2	2946.2	1625.7	837.7	424.2	268.0	241.4	232.5	241.4	257.3
40°	6179.8	5230.3	3132.5	1510.3	594.6	291.1	214.7	220.1	209.4	207.7	214.7
42.5°	6614.6	5626.1	3331.3	1320.4	413.5	216.5	197.0	200.6	193.5	184.6	184.6
45°	7028.2	5968.6	3329.5	1064.9	273.3	191.7	181.0	188.1	186.4	173.9	172.2
47.5°	7390.2	6314.7	3331.3	773.8	207.7	175.7	168.6	175.7	175.7	165.1	163.3
50°	7839.3	6602.2	3278.0	495.2	189.9	163.3	161.5	159.7	166.8	152.6	149.1
52.5°	8114.3	6811.7	3038.4	333.7	175.7	154.4	150.9	147.3	150.9	138.4	138.4
55°	8416.1	7072.5	2726.1	264.4	166.8	143.8	142.0	138.4	138.4	124.2	126.0
57.5°	8744.4	7285.5	2305.5	232.5	159.7	136.7	133.1	127.8	120.7	110.0	108.3
60°	8982.2	7329.9	1886.6	211.2	154.4	133.1	118.9	111.8	99.4	92.3	90.5
62.5°	9062.1	7353.0	1529.9	189.9	145.5	122.5	106.5	94.1	79.9	74.5	74.5
65°	8996.4	7086.7	1146.5	172.2	134.9	113.6	94.1	76.3	62.1	56.8	55.0
67.5°	8574.0	6596.9	834.2	154.4	118.9	102.9	81.6	62.1	49.7	44.4	44.4
70°	7805.5	6020.1	564.4	129.6	102.9	90.5	76.3	49.7	40.8	35.5	33.7
72.5°	6967.8	5104.3	360.3	104.7	79.9	71.0	55.0	42.6	33.7	26.6	26.6
75°	5510.7	4009.3	250.2	76.3	56.8	53.2	42.6	35.5	28.4	21.3	21.3
77.5°	3835.3	2605.4	197.0	58.6	39.0	35.5	31.9	26.6	23.1	17.7	16.0
80°	2223.8	1567.1	118.9	39.0	26.6	23.1	21.3	21.3	17.7	12.4	12.4
82.5°	1103.9	653.1	51.5	24.8	17.7	16.0	14.2	12.4	12.4	8.9	8.9
85°	216.5	111.8	19.5	12.4	8.9	8.9	7.1	7.1	5.3	3.5	3.5
87.5°	7.1	5.3	5.3	5.3	3.5	3.5	1.8	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)