

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: P509228

Luminaire Tested: **VERD-CA2-130-750-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509228
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-CA2-130-750-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1180mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16903 lumens
Efficiency: N/A
Efficacy: 128.2 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

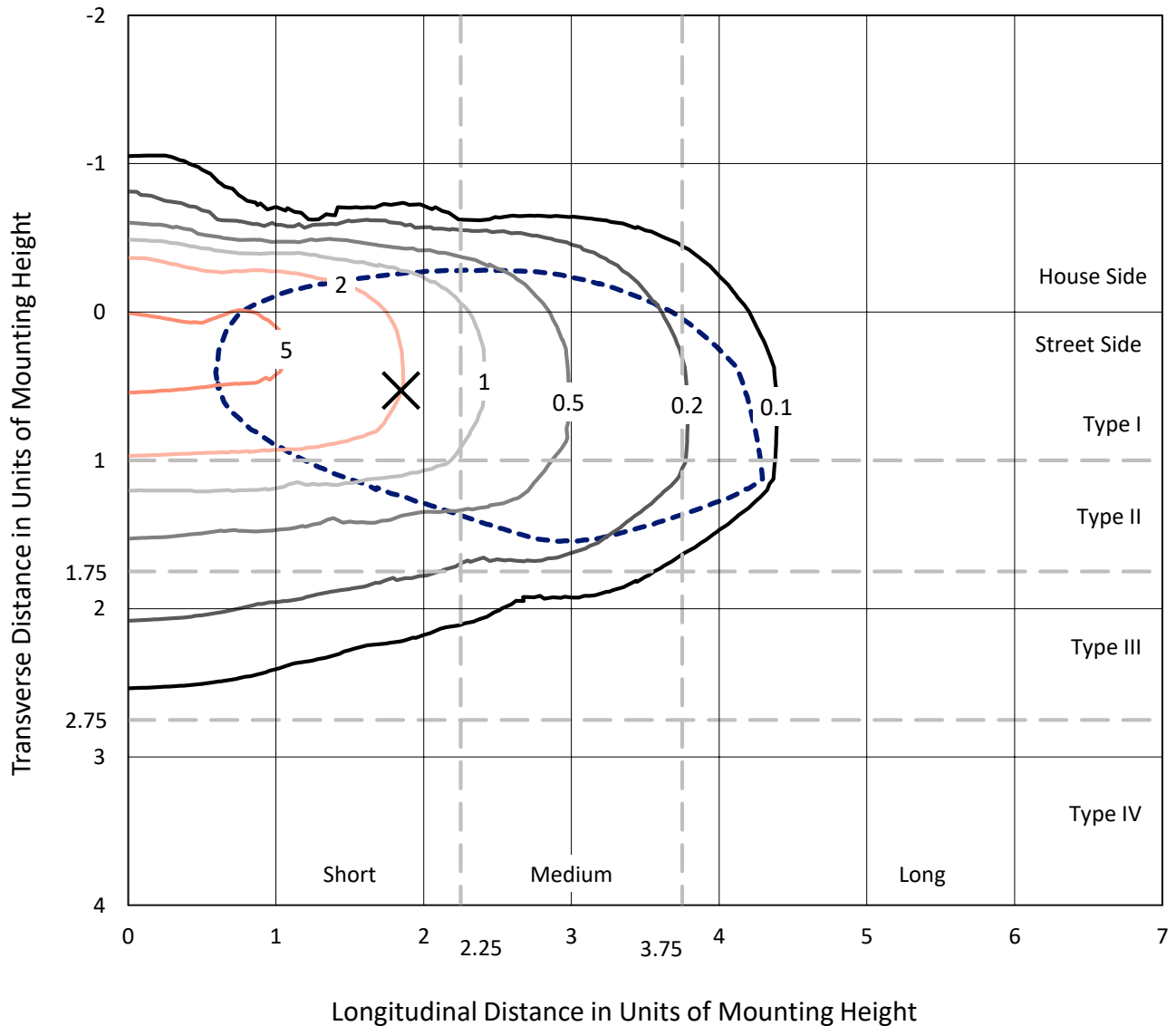
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

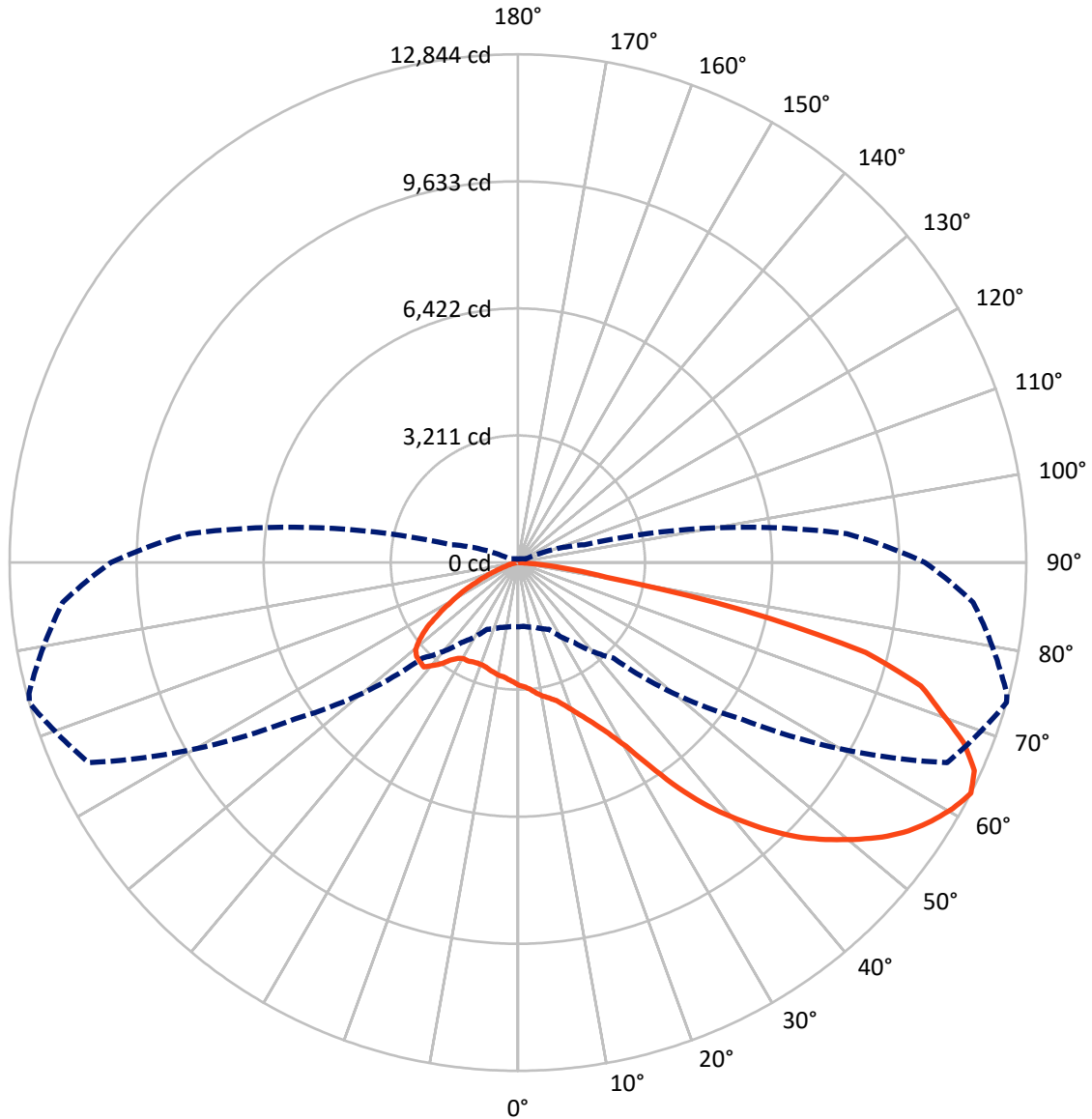
✕ Max cd
 - - - 1/2 Max cd



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

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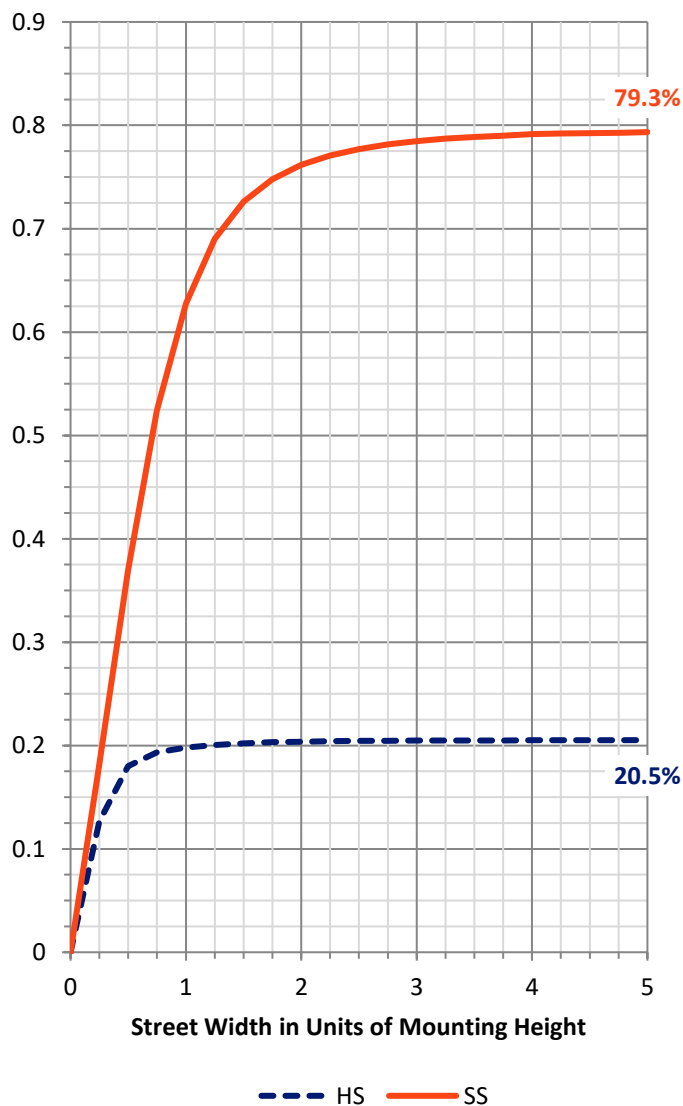
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3510.0	0.0	3510.0
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	13393.0	0.0	13393.0
	% Fixture	79.2	0.0	79.2
Total	Lumens	16903.0	0.0	16903.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.7
10°-20°	892.1	5.3
20°-30°	1506.2	8.9
30°-40°	2240.3	13.3
40°-50°	3032.1	17.9
50°-60°	3488.4	20.6
60°-70°	3367.2	19.9
70°-80°	1906.4	11.3
80°-90°	174.9	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°	16903.0	100.0
0°-180°	16903.0	100.0



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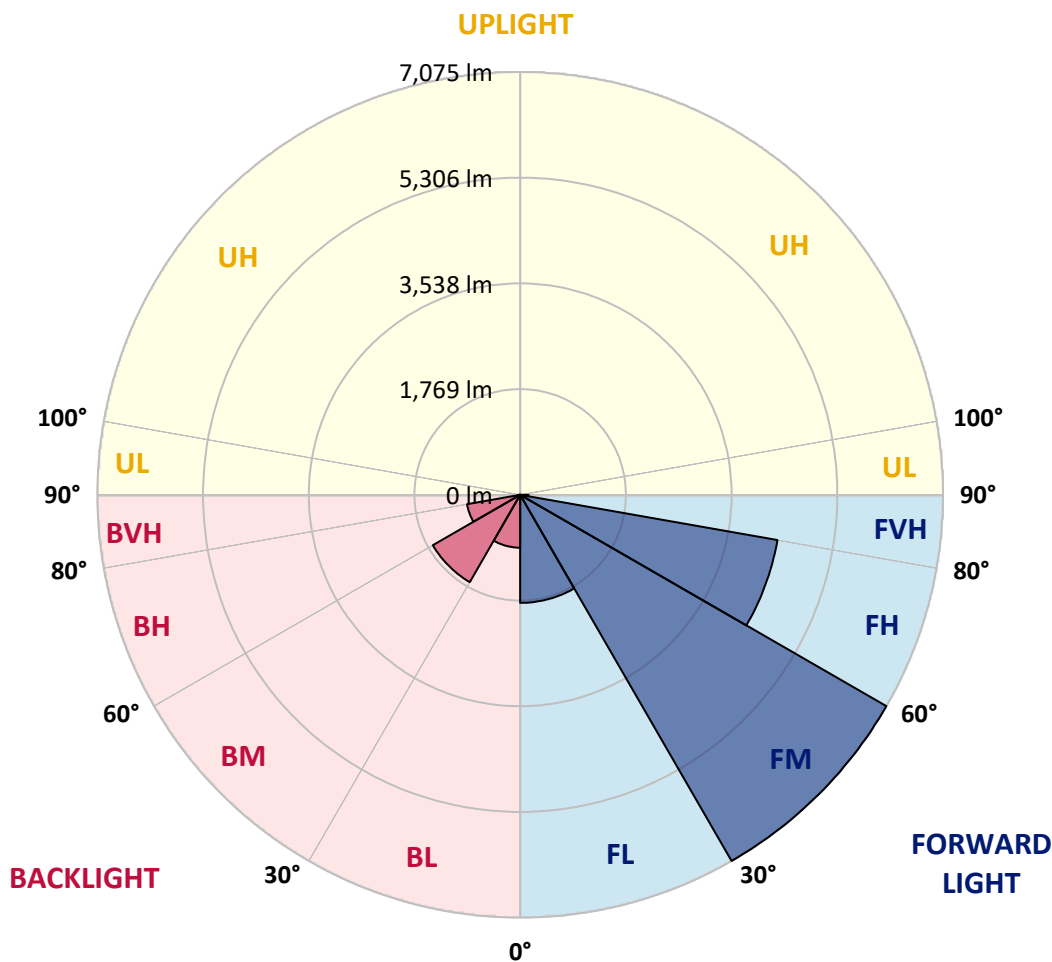
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1808.6	10.7			
FM	(30°-60°)	7075.3	41.9			
FH	(60°-80°)	4371.3	25.9			G2/5000
FVH	(80°-90°)	137.8	0.8			G2/225
BL	(0°-30°)	885.0	5.2	B2/1000		
BM	(30°-60°)	1685.5	10.0	B2/2500		
BH	(60°-80°)	902.3	5.3	B2/1000		G2/1000
BVH	(80°-90°)	37.1	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°	74°	75°	85°
0°	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2
2.5°	3378.2	3356.1	3338.0	3327.9	3299.7	3275.5	3227.2	3176.8	3142.6	3140.5	3108.3
5°	3519.3	3517.2	3477.0	3468.9	3430.6	3418.5	3370.2	3297.7	3213.1	3203.0	3116.4
7.5°	3704.6	3682.4	3638.1	3620.0	3575.7	3543.4	3479.0	3410.5	3325.9	3315.8	3164.7
10°	3883.9	3871.8	3845.6	3847.6	3785.2	3724.7	3628.0	3511.2	3430.6	3418.5	3233.2
12.5°	4091.4	4053.1	4008.8	3984.6	3922.1	3883.9	3791.2	3638.1	3511.2	3499.1	3313.8
15°	4234.4	4214.2	4174.0	4157.8	4097.4	4035.0	3928.2	3809.3	3618.0	3605.9	3396.4
17.5°	4387.5	4377.4	4331.1	4321.0	4262.6	4188.1	4105.5	3950.4	3783.2	3763.0	3495.1
20°	4490.2	4472.1	4466.1	4464.0	4447.9	4401.6	4296.8	4176.0	3990.6	3954.4	3622.0
22.5°	4627.2	4609.1	4617.1	4625.2	4647.4	4627.2	4558.7	4415.7	4232.4	4200.1	3821.4
25°	4641.3	4629.2	4683.6	4796.4	4840.7	4862.9	4810.5	4699.7	4522.5	4480.2	4059.1
27.5°	4679.6	4661.5	4719.9	4838.7	5038.2	5072.4	5082.5	5030.1	4881.0	4856.9	4381.4
30°	4611.1	4599.0	4689.7	4893.1	5116.7	5310.1	5384.6	5457.2	5388.7	5346.4	4830.7
32.5°	4443.9	4452.0	4570.8	4840.7	5253.7	5551.8	5745.2	6001.1	6124.0	6115.9	5626.4
35°	4200.1	4196.1	4395.5	4776.3	5265.8	5779.5	6140.1	6659.8	7004.3	6980.1	6462.4
37.5°	3992.7	3982.6	4208.2	4613.1	5275.9	5960.8	6603.4	7379.0	7816.1	7791.9	7145.3
40°	3738.8	3754.9	3956.4	4423.7	5191.3	6095.7	7006.3	8078.0	8525.2	8525.2	7852.4
42.5°	3483.0	3497.1	3696.5	4159.9	5068.4	6194.5	7385.0	8775.0	9230.2	9240.3	8337.8
45°	3259.4	3265.4	3446.7	3863.7	4846.8	6210.6	7733.5	9474.0	9891.0	9864.8	8891.8
47.5°	2866.6	2933.1	3217.1	3597.8	4544.6	6140.1	8027.6	10096.5	10459.1	10404.7	9419.6
50°	2284.4	2284.4	2677.2	3344.0	4198.1	5952.7	8259.3	10664.5	10998.9	10948.6	9880.9
52.5°	2099.1	2103.1	2224.0	2987.4	3847.6	5630.4	8392.2	11228.6	11528.7	11494.5	10318.1
55°	2000.4	2006.4	2062.8	2421.4	3529.3	5136.9	8396.3	11665.7	11978.0	11901.4	10686.7
57.5°	1851.3	1841.2	1960.1	2157.5	3156.7	4500.3	8198.8	12004.2	12326.5	12268.0	10988.9
60°	1746.5	1730.4	1811.0	1988.3	2755.8	3841.6	7673.1	12249.9	12624.6	12658.9	11285.0
62.5°	1623.7	1617.6	1694.2	1861.4	2459.7	3410.5	6883.4	11963.9	12844.2	12789.8	11546.9
65°	1500.8	1488.7	1561.2	1692.1	2173.6	3057.9	6087.7	11540.8	12675.0	12723.3	11599.2
67.5°	1339.6	1337.6	1406.1	1502.8	1861.4	2663.1	4935.4	10984.8	12151.2	12117.0	11123.8
70°	1144.2	1144.2	1212.7	1297.3	1555.2	2272.3	3789.2	10032.0	11345.4	11544.9	10310.0
72.5°	924.6	928.7	997.2	1093.9	1283.2	1851.3	2794.1	8724.6	10646.4	10326.1	9161.8
75°	493.5	443.2	781.6	880.3	1035.4	1476.6	1911.7	5672.7	9079.2	8857.6	7600.5
77.5°	118.9	124.9	245.8	457.3	552.0	817.9	940.8	2626.9	5854.0	6206.5	5420.9
80°	78.6	86.6	133.0	324.3	368.6	435.1	372.7	1144.2	2270.3	2419.4	3146.6
82.5°	40.3	44.3	82.6	128.9	130.9	112.8	141.0	576.1	1200.6	1301.3	1512.9
85°	14.1	22.2	42.3	56.4	52.4	42.3	34.2	143.0	284.0	316.3	328.4
87.5°	0.0	0.0	6.0	6.0	4.0	4.0	6.0	6.0	8.1	6.0	6.0
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°	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2
2.5°	3082.1	3060.0	3025.7	2989.5	2951.2	2918.9	2900.8	2910.9	2923.0	2884.7	2870.6
5°	3076.1	3037.8	2973.3	2896.8	2838.4	2780.0	2711.5	2695.3	2679.2	2659.1	2636.9
7.5°	3104.3	3047.9	2916.9	2846.4	2723.5	2614.8	2554.3	2510.0	2469.7	2433.5	2411.3
10°	3156.7	3051.9	2904.8	2761.8	2626.9	2493.9	2363.0	2336.8	2328.7	2276.3	2238.1
12.5°	3190.9	3062.0	2862.5	2689.3	2495.9	2352.9	2221.9	2147.4	2141.4	2117.2	2091.0
15°	3245.3	3102.3	2834.3	2598.7	2363.0	2211.9	2091.0	1994.3	1946.0	1944.0	1923.8
17.5°	3344.0	3148.6	2790.0	2506.0	2256.2	2087.0	1913.7	1877.5	1796.9	1750.6	1738.5
20°	3444.7	3217.1	2777.9	2413.3	2117.2	1907.7	1774.7	1674.0	1609.6	1561.2	1531.0
22.5°	3575.7	3315.8	2782.0	2358.9	2004.4	1772.7	1599.5	1450.4	1331.6	1273.1	1244.9
25°	3765.0	3430.6	2812.2	2276.3	1871.4	1627.7	1375.9	1178.5	1011.3	969.0	948.8
27.5°	4006.8	3591.8	2854.5	2191.7	1748.5	1432.3	1105.9	884.3	745.3	713.1	693.0
30°	4377.4	3833.5	2860.5	2139.4	1637.8	1178.5	827.9	654.7	545.9	511.7	515.7
32.5°	5074.4	4351.2	2941.1	2030.6	1440.3	904.5	608.4	477.4	394.8	382.7	402.9
35°	5884.2	4961.6	3096.2	1974.2	1214.7	654.7	435.1	350.5	298.1	314.3	322.3
37.5°	6406.0	5499.5	3344.0	1845.2	950.8	481.5	304.2	274.0	263.9	274.0	292.1
40°	7014.3	5936.6	3555.5	1714.3	674.8	330.4	243.7	249.8	237.7	235.7	243.7
42.5°	7507.9	6385.8	3781.1	1498.8	469.4	245.8	223.6	227.6	219.6	209.5	209.5
45°	7977.3	6774.6	3779.1	1208.7	310.2	217.6	205.5	213.5	211.5	197.4	195.4
47.5°	8388.2	7167.4	3781.1	878.3	235.7	199.4	191.4	199.4	199.4	187.3	185.3
50°	8897.9	7493.8	3720.7	562.0	215.5	185.3	183.3	181.3	189.4	173.2	169.2
52.5°	9210.1	7731.5	3448.8	378.7	199.4	175.3	171.2	167.2	171.2	157.1	157.1
55°	9552.6	8027.6	3094.2	300.2	189.4	163.2	161.2	157.1	157.1	141.0	143.0
57.5°	9925.2	8269.3	2616.8	263.9	181.3	155.1	151.1	145.0	137.0	124.9	122.9
60°	10195.2	8319.7	2141.4	239.7	175.3	151.1	135.0	126.9	112.8	104.8	102.7
62.5°	10285.8	8345.9	1736.5	215.5	165.2	139.0	120.9	106.8	90.7	84.6	84.6
65°	10211.3	8043.7	1301.3	195.4	153.1	128.9	106.8	86.6	70.5	64.5	62.4
67.5°	9731.8	7487.7	946.8	175.3	135.0	116.8	92.7	70.5	56.4	50.4	50.4
70°	8859.6	6833.0	640.6	147.1	116.8	102.7	86.6	56.4	46.3	40.3	38.3
72.5°	7908.8	5793.6	408.9	118.9	90.7	80.6	62.4	48.3	38.3	30.2	30.2
75°	6254.9	4550.7	284.0	86.6	64.5	60.4	48.3	40.3	32.2	24.2	24.2
77.5°	4353.2	2957.2	223.6	66.5	44.3	40.3	36.3	30.2	26.2	20.1	18.1
80°	2524.1	1778.8	135.0	44.3	30.2	26.2	24.2	24.2	20.1	14.1	14.1
82.5°	1253.0	741.3	58.4	28.2	20.1	18.1	16.1	14.1	14.1	10.1	10.1
85°	245.8	126.9	22.2	14.1	10.1	10.1	8.1	8.1	6.0	4.0	4.0
87.5°	8.1	6.0	6.0	6.0	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)