

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: P509212

Luminaire Tested: **VERD-CA2-130-730-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509212
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-CA2-130-730-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1180mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16298 lumens
Efficiency: N/A
Efficacy: 123.7 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

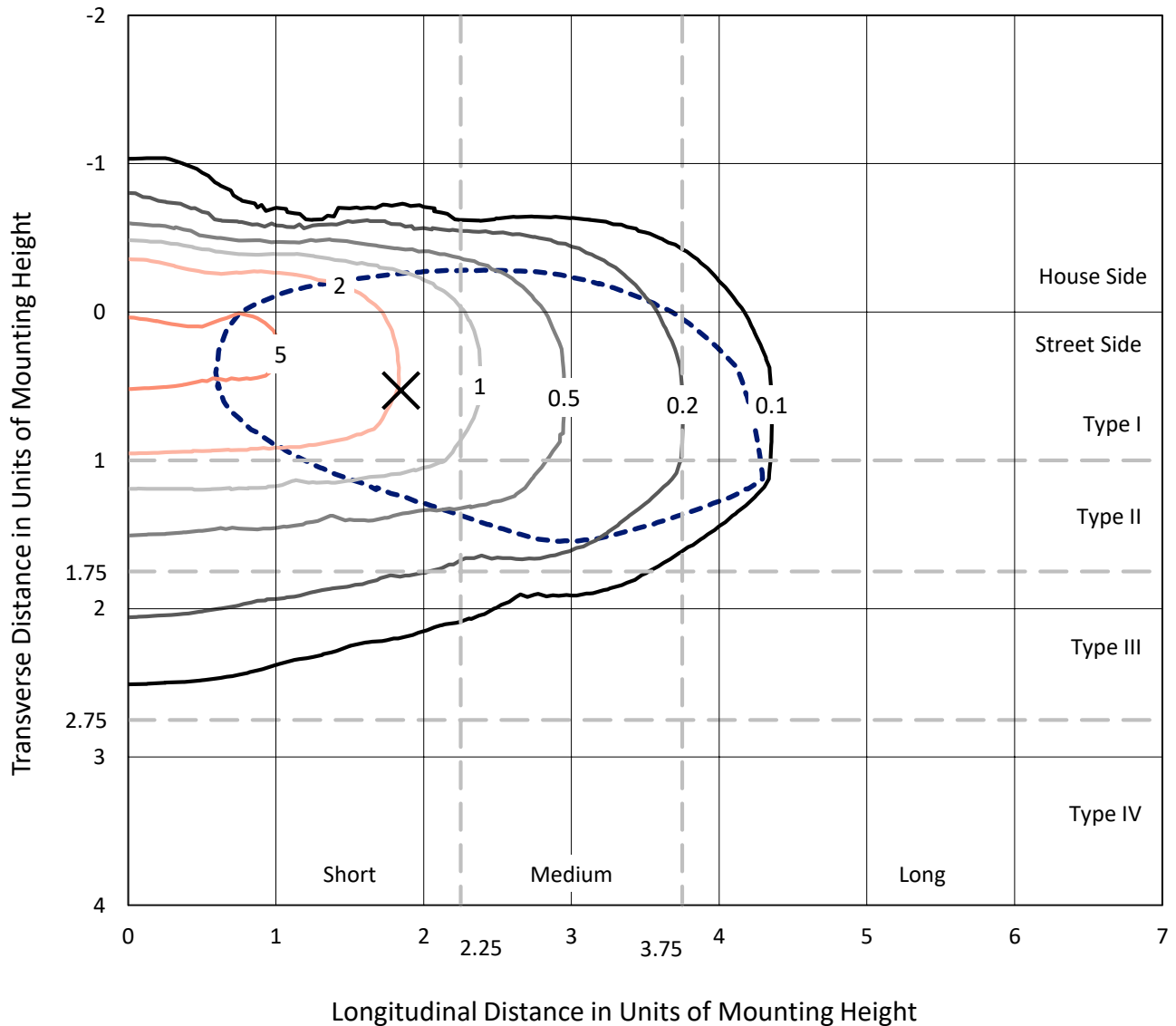
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

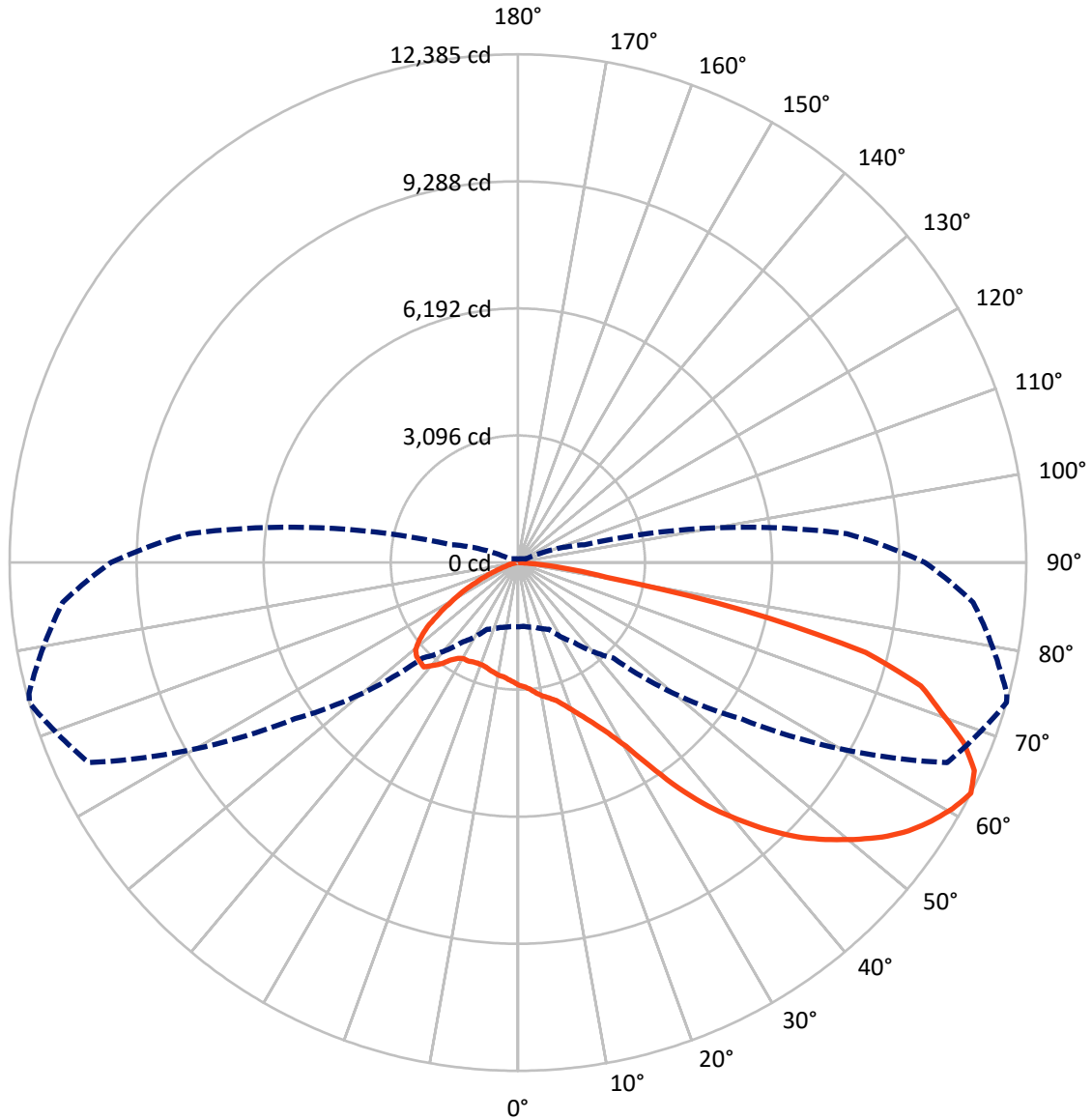
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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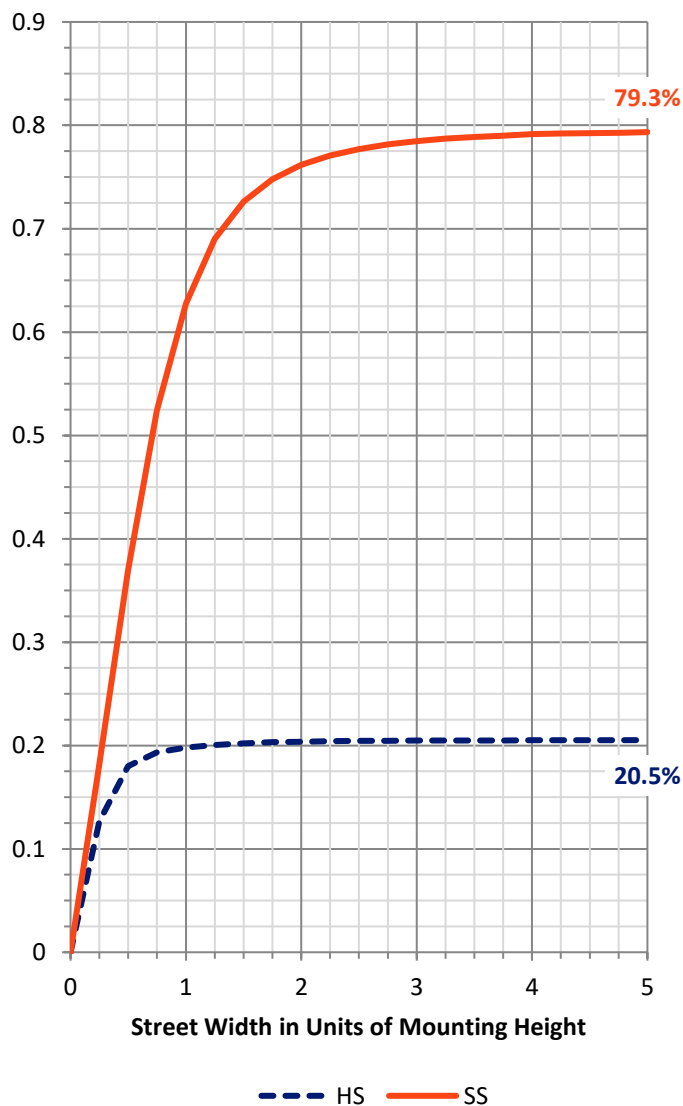
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3384.4	0.0	3384.4
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	12913.6	0.0	12913.6
	% Fixture	79.2	0.0	79.2
Total	Lumens	16298.0	0.0	16298.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	1.7
10°-20°	860.2	5.3
20°-30°	1452.3	8.9
30°-40°	2160.1	13.3
40°-50°	2923.6	17.9
50°-60°	3363.6	20.6
60°-70°	3246.7	19.9
70°-80°	1838.2	11.3
80°-90°	168.6	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°	16298.0	100.0
0°-180°	16298.0	100.0



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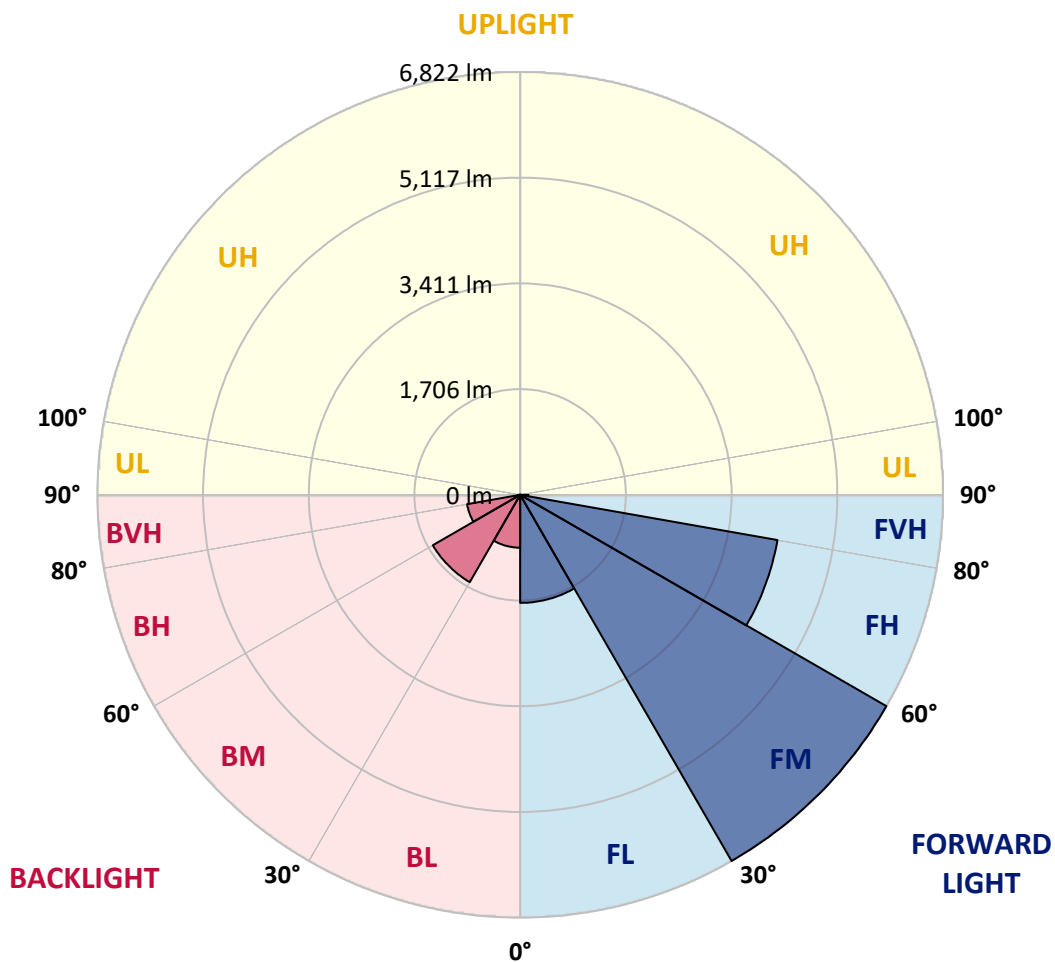
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1743.9	10.7			
FM (30°-60°)	6822.0	41.9			
FH (60°-80°)	4214.9	25.9			G2/5000
FVH (80°-90°)	132.9	0.8			G2/225
BL (0°-30°)	853.4	5.2	B2/1000		
BM (30°-60°)	1625.2	10.0	B2/2500		
BH (60°-80°)	870.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	35.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3
2.5°	3257.3	3236.0	3218.5	3208.8	3181.6	3158.3	3111.7	3063.1	3030.1	3028.1	2997.1
5°	3393.3	3391.4	3352.5	3344.7	3307.8	3296.2	3249.6	3179.6	3098.1	3088.3	3004.8
7.5°	3572.0	3550.6	3507.9	3490.4	3447.7	3416.6	3354.4	3288.4	3206.8	3197.1	3051.4
10°	3744.9	3733.2	3708.0	3709.9	3649.7	3591.4	3498.2	3385.5	3307.8	3296.2	3117.5
12.5°	3944.9	3908.0	3865.3	3842.0	3781.8	3744.9	3655.5	3507.9	3385.5	3373.9	3195.2
15°	4082.8	4063.4	4024.6	4009.0	3950.8	3890.5	3787.6	3673.0	3488.5	3476.8	3274.8
17.5°	4230.4	4220.7	4176.1	4166.4	4110.0	4038.2	3958.5	3809.0	3647.7	3628.3	3370.0
20°	4329.5	4312.0	4306.2	4304.3	4288.7	4244.0	4143.0	4026.5	3847.8	3812.8	3492.4
22.5°	4461.6	4444.1	4451.9	4459.6	4481.0	4461.6	4395.5	4257.6	4080.9	4049.8	3684.6
25°	4475.2	4463.5	4516.0	4624.7	4667.5	4688.8	4638.3	4531.5	4360.6	4319.8	3913.8
27.5°	4512.1	4494.6	4550.9	4665.5	4857.8	4890.9	4900.6	4850.1	4706.3	4683.0	4224.6
30°	4446.1	4434.4	4521.8	4718.0	4933.6	5120.0	5191.9	5261.8	5195.8	5155.0	4657.8
32.5°	4284.8	4292.6	4407.2	4667.5	5065.7	5353.1	5539.6	5786.3	5904.8	5897.0	5425.0
35°	4049.8	4045.9	4238.2	4605.3	5077.3	5572.6	5920.3	6421.4	6753.6	6730.3	6231.1
37.5°	3849.7	3840.0	4057.6	4448.0	5087.0	5747.4	6367.0	7114.8	7536.3	7513.0	6889.5
40°	3605.0	3620.6	3814.8	4265.4	5005.4	5877.6	6755.5	7788.8	8220.0	8220.0	7571.3
42.5°	3358.3	3371.9	3564.2	4011.0	4887.0	5972.7	7120.7	8460.9	8899.9	8909.6	8039.4
45°	3142.7	3148.6	3323.4	3725.4	4673.3	5988.3	7456.7	9134.9	9537.0	9511.7	8573.6
47.5°	2764.0	2828.1	3101.9	3469.0	4382.0	5920.3	7740.3	9735.1	10084.7	10032.3	9082.5
50°	2202.6	2202.6	2581.4	3224.3	4047.9	5739.7	7963.7	10282.8	10605.3	10556.7	9527.3
52.5°	2023.9	2027.8	2144.4	2880.5	3709.9	5428.9	8091.9	10826.7	11116.1	11083.1	9948.7
55°	1928.8	1934.6	1989.0	2334.7	3403.0	4953.0	8095.7	11248.2	11549.2	11475.4	10304.2
57.5°	1785.0	1775.3	1889.9	2080.3	3043.7	4339.2	7905.4	11574.5	11885.3	11828.9	10595.5
60°	1684.0	1668.5	1746.2	1917.1	2657.1	3704.1	7398.4	11811.5	12172.7	12205.8	10881.1
62.5°	1565.5	1559.7	1633.5	1794.7	2371.6	3288.4	6637.0	11535.6	12384.5	12332.0	11133.6
65°	1447.1	1435.4	1505.3	1631.6	2095.8	2948.5	5869.8	11127.8	12221.3	12267.9	11184.1
67.5°	1291.7	1289.7	1355.8	1449.0	1794.7	2567.8	4758.8	10591.7	11716.3	11683.3	10725.7
70°	1103.3	1103.3	1169.3	1250.9	1499.5	2191.0	3653.6	9672.9	10939.3	11131.6	9941.0
72.5°	891.5	895.4	961.5	1054.7	1237.3	1785.0	2694.0	8412.3	10265.3	9956.5	8833.8
75°	475.9	427.3	753.6	848.8	998.4	1423.7	1843.3	5469.7	8754.2	8540.5	7328.5
77.5°	114.6	120.4	237.0	440.9	532.2	788.6	907.1	2532.8	5644.5	5984.4	5226.9
80°	75.8	83.5	128.2	312.7	355.5	419.5	359.3	1103.3	2189.0	2332.8	3034.0
82.5°	38.8	42.7	79.6	124.3	126.3	108.8	136.0	555.5	1157.6	1254.8	1458.7
85°	13.6	21.4	40.8	54.4	50.5	40.8	33.0	137.9	273.9	304.9	316.6
87.5°	0.0	0.0	5.8	5.8	3.9	3.9	5.8	5.8	7.8	5.8	5.8
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°	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3
2.5°	2971.8	2950.4	2917.4	2882.5	2845.6	2814.5	2797.0	2806.7	2818.4	2781.5	2767.9
5°	2966.0	2929.1	2866.9	2793.1	2736.8	2680.5	2614.4	2598.9	2583.3	2563.9	2542.5
7.5°	2993.2	2938.8	2812.5	2744.5	2626.1	2521.2	2462.9	2420.2	2381.3	2346.4	2325.0
10°	3043.7	2942.7	2800.9	2663.0	2532.8	2404.6	2278.4	2253.1	2245.4	2194.9	2158.0
12.5°	3076.7	2952.4	2760.1	2593.0	2406.6	2268.7	2142.4	2070.6	2064.7	2041.4	2016.2
15°	3129.1	2991.2	2732.9	2505.6	2278.4	2132.7	2016.2	1922.9	1876.3	1874.4	1854.9
17.5°	3224.3	3035.9	2690.2	2416.3	2175.4	2012.3	1845.2	1810.3	1732.6	1687.9	1676.3
20°	3321.4	3101.9	2678.5	2326.9	2041.4	1839.4	1711.2	1614.1	1551.9	1505.3	1476.2
22.5°	3447.7	3197.1	2682.4	2274.5	1932.6	1709.3	1542.2	1398.5	1283.9	1227.6	1200.4
25°	3630.3	3307.8	2711.5	2194.9	1804.4	1569.4	1326.6	1136.3	975.1	934.3	914.8
27.5°	3863.3	3463.2	2752.3	2113.3	1686.0	1381.0	1066.4	852.7	718.7	687.6	668.2
30°	4220.7	3696.3	2758.1	2062.8	1579.1	1136.3	798.3	631.3	526.4	493.4	497.2
32.5°	4892.8	4195.5	2835.8	1957.9	1388.8	872.1	586.6	460.3	380.7	369.0	388.5
35°	5673.6	4784.0	2985.4	1903.5	1171.2	631.3	419.5	338.0	287.5	303.0	310.8
37.5°	6176.7	5302.6	3224.3	1779.2	916.8	464.2	293.3	264.2	254.4	264.2	281.6
40°	6763.3	5724.1	3428.3	1652.9	650.7	318.5	235.0	240.9	229.2	227.3	235.0
42.5°	7239.2	6157.3	3645.8	1445.1	452.6	237.0	215.6	219.5	211.7	202.0	202.0
45°	7691.7	6532.1	3643.9	1165.4	299.1	209.8	198.1	205.9	203.9	190.4	188.4
47.5°	8088.0	6910.9	3645.8	846.9	227.3	192.3	184.5	192.3	192.3	180.6	178.7
50°	8579.4	7225.6	3587.5	541.9	207.8	178.7	176.8	174.8	182.6	167.0	163.2
52.5°	8880.4	7454.8	3325.3	365.2	192.3	169.0	165.1	161.2	165.1	151.5	151.5
55°	9210.6	7740.3	2983.5	289.4	182.6	157.3	155.4	151.5	151.5	136.0	137.9
57.5°	9570.0	7973.4	2523.1	254.4	174.8	149.6	145.7	139.8	132.1	120.4	118.5
60°	9830.3	8021.9	2064.7	231.1	169.0	145.7	130.1	122.4	108.8	101.0	99.1
62.5°	9917.7	8047.2	1674.3	207.8	159.3	134.0	116.5	102.9	87.4	81.6	81.6
65°	9845.8	7755.8	1254.8	188.4	147.6	124.3	102.9	83.5	68.0	62.2	60.2
67.5°	9383.5	7219.7	912.9	169.0	130.1	112.7	89.3	68.0	54.4	48.6	48.6
70°	8542.5	6588.5	617.7	141.8	112.7	99.1	83.5	54.4	44.7	38.8	36.9
72.5°	7625.7	5586.2	394.3	114.6	87.4	77.7	60.2	46.6	36.9	29.1	29.1
75°	6031.0	4387.8	273.9	83.5	62.2	58.3	46.6	38.8	31.1	23.3	23.3
77.5°	4197.4	2851.4	215.6	64.1	42.7	38.8	35.0	29.1	25.3	19.4	17.5
80°	2433.8	1715.1	130.1	42.7	29.1	25.3	23.3	23.3	19.4	13.6	13.6
82.5°	1208.1	714.8	56.3	27.2	19.4	17.5	15.5	13.6	13.6	9.7	9.7
85°	237.0	122.4	21.4	13.6	9.7	9.7	7.8	7.8	5.8	3.9	3.9
87.5°	7.8	5.8	5.8	5.8	3.9	3.9	1.9	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)