

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: P509239

Luminaire Tested: **VERD-CA2-130-760-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-760-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1180mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18207 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (A_{in}): 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

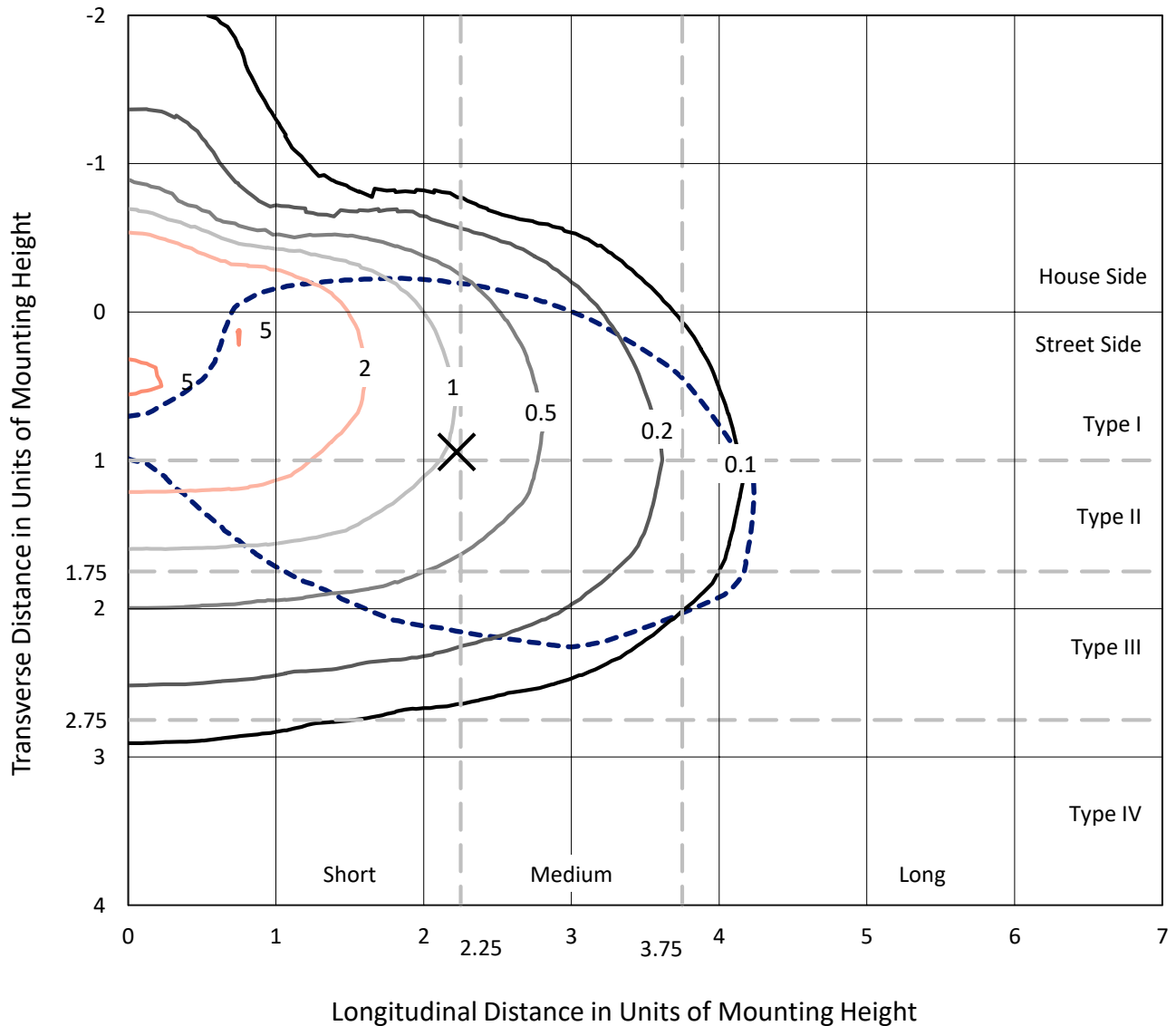


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Iso-Footcandle Lines of Horizontal Illumination

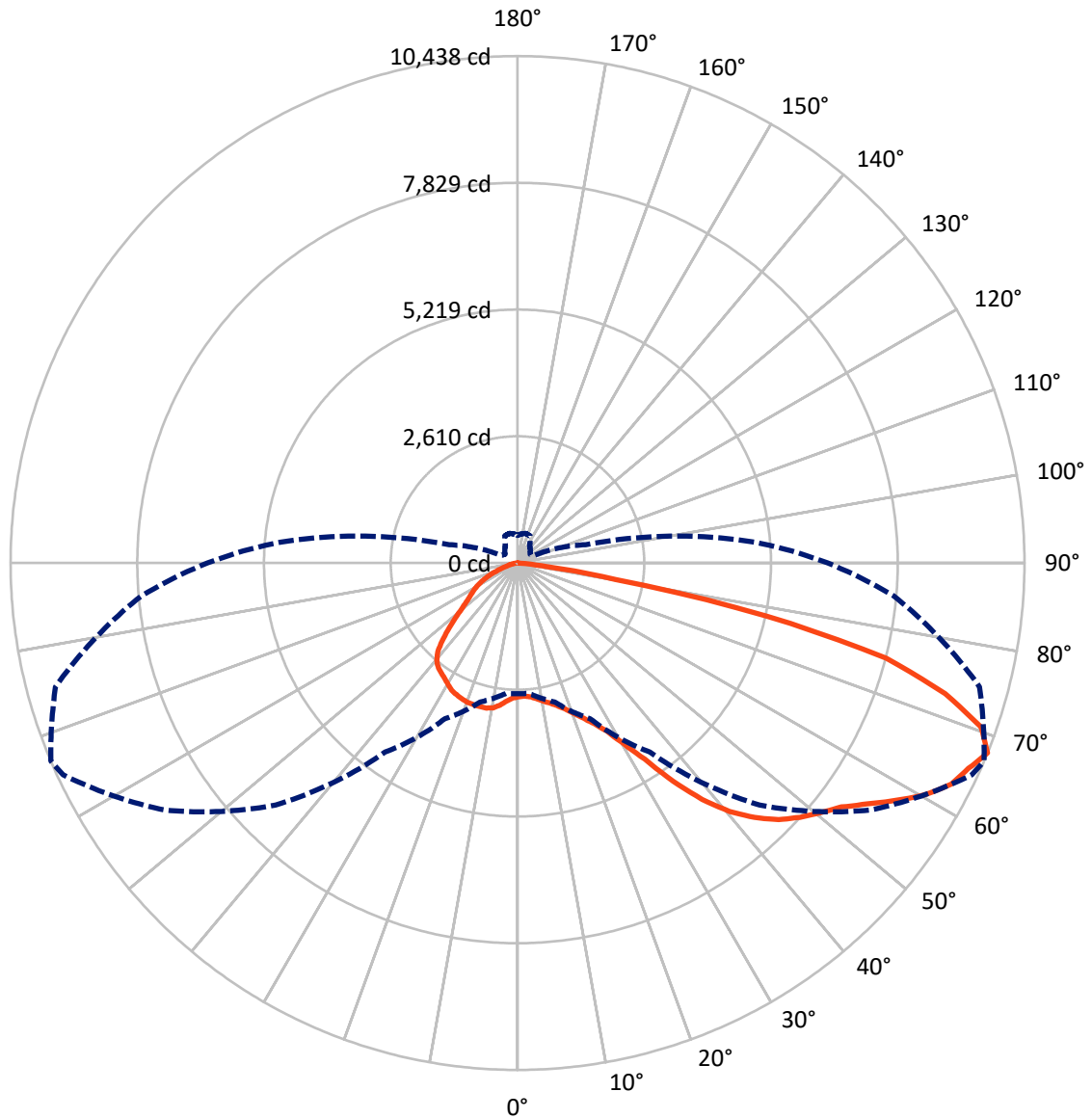
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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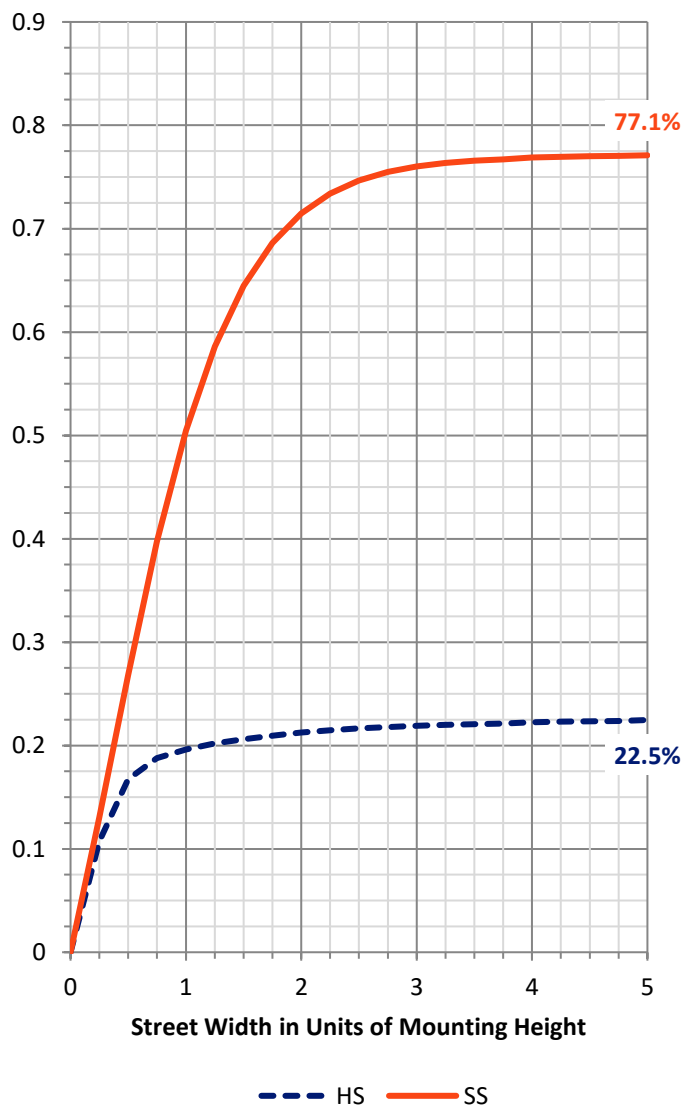
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4163.1	0.0	4163.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14043.9	0.0	14043.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	18207.0	0.0	18207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	1.5
10°-20°	892.7	4.9
20°-30°	1542.6	8.5
30°-40°	2341.5	12.9
40°-50°	3181.7	17.5
50°-60°	3783.9	20.8
60°-70°	3893.2	21.4
70°-80°	2123.7	11.7
80°-90°	168.8	0.9
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°	18207.0	100.0
0°-180°	18207.0	100.0

Coefficient of Utilization



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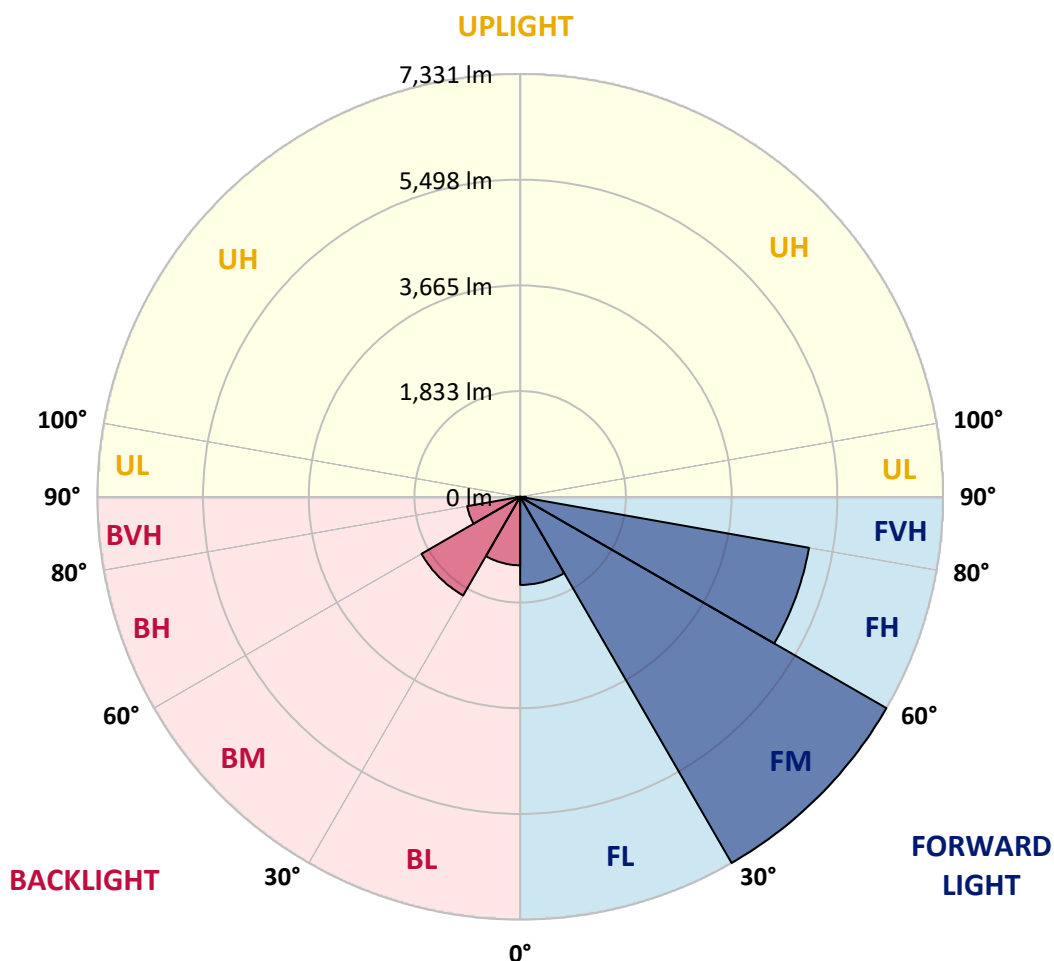
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1527.1	8.4			
FM (30°-60°)	7330.9	40.3			
FH (60°-80°)	5084.8	27.9			G3/7500
FVH (80°-90°)	101.0	0.6			G2/225
BL (0°-30°)	1187.1	6.5	B3/2500		
BM (30°-60°)	1976.2	10.9	B2/2500		
BH (60°-80°)	932.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	67.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2754.4	2754.4	2754.4	2754.4	2754.4	2754.4	2754.4	2754.4	2754.4	2754.4	2754.4
2.5°	2770.2	2758.4	2742.6	2748.5	2736.7	2756.4	2748.5	2744.6	2744.6	2746.5	2756.4
5°	2833.3	2821.5	2809.6	2807.7	2784.0	2791.9	2780.1	2768.2	2768.2	2766.3	2770.2
7.5°	2943.7	2927.9	2914.1	2912.2	2882.6	2878.6	2843.1	2819.5	2819.5	2817.5	2823.4
10°	3089.6	3083.7	3056.1	3038.3	3002.9	2979.2	2935.8	2898.4	2890.5	2878.6	2894.4
12.5°	3229.6	3227.6	3202.0	3182.3	3133.0	3091.6	3020.6	2969.3	2959.5	2945.7	2957.5
15°	3405.1	3387.3	3359.7	3347.9	3276.9	3213.8	3133.0	3056.1	3046.2	3030.5	3040.3
17.5°	3598.3	3588.4	3545.1	3531.3	3442.5	3369.6	3269.0	3170.4	3154.7	3133.0	3131.0
20°	3831.0	3813.2	3779.7	3740.3	3653.5	3549.0	3432.7	3320.3	3306.5	3288.7	3251.3
22.5°	4081.4	4061.6	4028.1	3986.7	3876.3	3765.9	3620.0	3478.0	3470.1	3458.3	3389.3
25°	4319.9	4286.4	4290.3	4250.9	4152.3	4012.3	3840.8	3671.2	3667.3	3665.3	3554.9
27.5°	4574.3	4538.8	4526.9	4513.1	4420.5	4288.4	4095.2	3933.5	3919.7	3921.6	3754.1
30°	4812.8	4797.1	4787.2	4777.4	4732.0	4613.7	4428.4	4284.4	4327.8	4323.9	4093.2
32.5°	4998.2	4986.3	5027.8	5075.1	5063.2	4964.7	4836.5	4771.4	4814.8	4954.8	4753.7
35°	5161.8	5155.9	5234.8	5335.3	5406.3	5335.3	5321.5	5422.1	5522.6	5755.3	5639.0
37.5°	5339.3	5331.4	5398.4	5570.0	5694.2	5715.9	5820.4	6078.7	6175.3	6407.9	6163.4
40°	5337.3	5347.2	5508.8	5727.7	5954.4	6137.8	6352.7	6603.1	6727.3	6837.7	6459.2
42.5°	5250.6	5256.5	5459.5	5875.6	6204.8	6565.7	6756.9	7078.3	7163.1	7184.8	6808.2
45°	5161.8	5165.8	5386.6	5853.9	6413.8	6965.9	7178.8	7472.6	7537.7	7462.8	7044.8
47.5°	5033.7	5059.3	5297.9	5832.2	6593.3	7334.6	7506.1	7797.9	7823.6	7728.9	7241.9
50°	4881.9	4895.7	5169.7	5761.2	6711.6	7563.3	7766.4	8030.6	8079.9	7973.4	7486.4
52.5°	4696.5	4708.3	5006.1	5666.6	6776.6	7738.8	7965.5	8281.0	8348.0	8300.7	7701.3
55°	4483.6	4489.5	4793.1	5512.8	6758.9	7815.7	8139.0	8635.9	8748.3	8632.0	7880.8
57.5°	4217.4	4239.1	4584.1	5282.1	6624.8	7912.3	8452.5	9073.6	9217.5	8969.1	8014.8
60°	3943.3	3965.0	4278.5	5014.0	6400.0	7955.7	8775.9	9544.8	9671.0	9288.5	8097.6
62.5°	3635.8	3665.3	3925.6	4609.8	5997.8	7898.5	9014.5	9956.9	10027.9	9479.8	8076.0
65°	3188.2	3204.0	3487.9	4122.8	5473.4	7600.8	9004.6	10177.8	10201.4	9690.7	7981.3
67.5°	2691.3	2693.3	2961.4	3535.2	4751.7	7044.8	8866.6	10321.7	10438.0	9846.5	7774.3
70°	2046.6	2074.2	2283.2	2709.1	3884.2	6094.4	8411.1	10179.7	10124.5	9420.6	7180.8
72.5°	1461.0	1445.2	1551.7	1839.6	2718.9	4702.4	7251.8	9197.8	9209.7	8580.7	6248.2
75°	776.8	780.8	871.5	1114.0	1388.1	3060.0	5800.6	7770.3	7841.3	7358.3	4889.7
77.5°	173.5	197.2	299.7	425.9	603.3	979.9	3146.8	5096.8	5230.8	4842.4	2679.5
80°	134.1	136.0	197.2	242.5	266.2	469.3	999.6	1849.4	2052.5	1938.1	1007.5
82.5°	88.7	90.7	130.1	134.1	128.2	214.9	453.5	554.0	609.2	532.4	374.6
85°	47.3	49.3	59.2	65.1	51.3	63.1	59.2	47.3	49.3	43.4	43.4
87.5°	9.9	5.9	7.9	5.9	5.9	3.9	5.9	5.9	5.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2754.4	2754.4	2754.4	2754.4	2754.4	2754.4	2754.4	2754.4	2754.4	2754.4	2754.4
2.5°	2756.4	2760.3	2770.2	2786.0	2793.9	2811.6	2823.4	2853.0	2894.4	2880.6	2862.9
5°	2772.2	2784.0	2817.5	2858.9	2890.5	2937.8	2961.4	3018.6	3065.9	3062.0	3030.5
7.5°	2831.3	2856.9	2898.4	2959.5	3012.7	3060.0	3093.5	3154.7	3198.0	3180.3	3150.7
10°	2906.2	2931.9	2977.2	3032.4	3071.9	3123.1	3144.8	3194.1	3221.7	3200.0	3174.4
12.5°	2975.2	2989.0	3020.6	3062.0	3083.7	3117.2	3127.1	3162.6	3188.2	3178.3	3146.8
15°	3042.3	3040.3	3046.2	3058.1	3065.9	3073.8	3075.8	3101.4	3119.2	3099.5	3077.8
17.5°	3117.2	3097.5	3071.9	3052.1	3022.6	3008.8	2983.1	2995.0	2993.0	2977.2	2959.5
20°	3211.8	3176.4	3097.5	3036.4	2959.5	2898.4	2845.1	2835.3	2835.3	2791.9	2789.9
22.5°	3324.2	3265.1	3133.0	2998.9	2874.7	2778.1	2679.5	2622.3	2580.9	2549.4	2535.6
25°	3470.1	3361.7	3164.5	2947.6	2764.3	2588.8	2440.9	2362.1	2283.2	2231.9	2224.0
27.5°	3625.9	3507.6	3184.2	2902.3	2612.5	2371.9	2166.9	2005.2	1932.2	1898.7	1867.2
30°	3880.2	3671.2	3219.7	2805.7	2421.2	2105.7	1833.7	1644.4	1573.4	1549.7	1530.0
32.5°	4497.4	4095.2	3253.3	2707.1	2216.2	1812.0	1453.1	1293.4	1232.3	1256.0	1263.8
35°	5270.3	4726.1	3413.0	2592.7	2003.2	1478.8	1117.9	1011.5	1015.4	1050.9	1062.7
37.5°	5794.7	5282.1	3738.3	2448.8	1697.6	1096.2	865.6	832.0	861.6	893.2	899.1
40°	6102.3	5536.4	3967.0	2271.4	1336.8	820.2	650.7	627.0	690.1	761.1	804.4
42.5°	6429.6	5753.3	4085.3	2040.7	938.5	593.5	498.8	516.6	617.1	678.3	705.9
45°	6605.1	5922.9	4032.1	1711.4	638.8	461.4	447.6	496.9	597.4	652.6	660.5
47.5°	6794.4	6092.5	3903.9	1368.3	489.0	437.7	439.7	498.8	601.4	660.5	660.5
50°	6958.0	6232.4	3675.2	1072.6	465.3	421.9	441.7	508.7	607.3	658.5	656.6
52.5°	7147.3	6295.5	3349.9	867.5	441.7	408.1	443.6	516.6	597.4	627.0	623.0
55°	7206.4	6250.2	3194.1	725.6	423.9	400.2	451.5	528.4	593.5	599.4	589.5
57.5°	7206.4	6127.9	3016.7	619.1	408.1	400.2	455.5	526.4	615.2	652.6	648.7
60°	7174.9	5999.8	2744.6	554.0	386.4	396.3	457.4	556.0	731.5	772.9	770.9
62.5°	7074.3	5792.8	2409.4	489.0	364.8	398.3	451.5	597.4	836.0	818.2	774.9
65°	6835.8	5402.4	1953.9	429.8	341.1	398.3	443.6	656.6	743.3	709.8	694.0
67.5°	6386.2	4911.4	1453.1	368.7	313.5	372.6	431.8	615.2	630.9	593.5	569.8
70°	5792.8	4160.2	932.6	311.5	283.9	351.0	423.9	577.7	609.2	563.9	534.3
72.5°	4826.6	3304.5	540.2	254.3	240.5	323.4	408.1	560.0	599.4	538.3	496.9
75°	3405.1	2086.0	354.9	187.3	193.2	276.0	378.6	524.5	561.9	487.0	427.9
77.5°	1735.1	782.8	252.4	138.0	130.1	211.0	327.3	483.1	554.0	490.9	420.0
80°	613.2	394.3	165.6	90.7	84.8	130.1	250.4	410.1	520.5	479.1	465.3
82.5°	262.2	197.2	90.7	57.2	51.3	65.1	142.0	323.4	457.4	433.8	524.5
85°	37.5	33.5	25.6	21.7	21.7	29.6	45.3	159.7	309.6	352.9	427.9
87.5°	5.9	5.9	5.9	3.9	3.9	3.9	2.0	23.7	102.5	153.8	212.9
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)