

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: P553578

Luminaire Tested: **VERD-G-CA2-150-750-U-T3-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-150-750-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1380mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20375 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

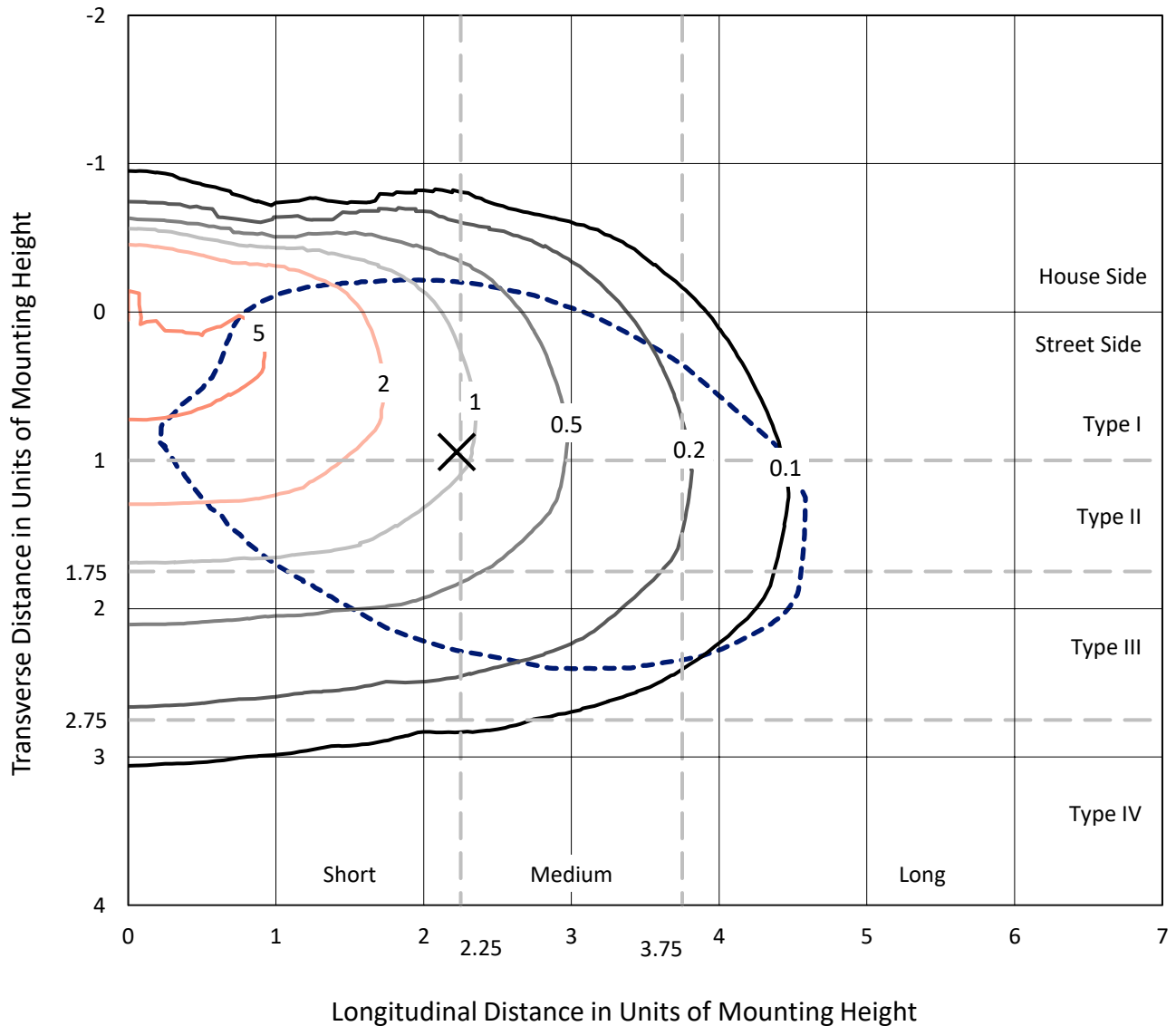
Input Watts (W): 152.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

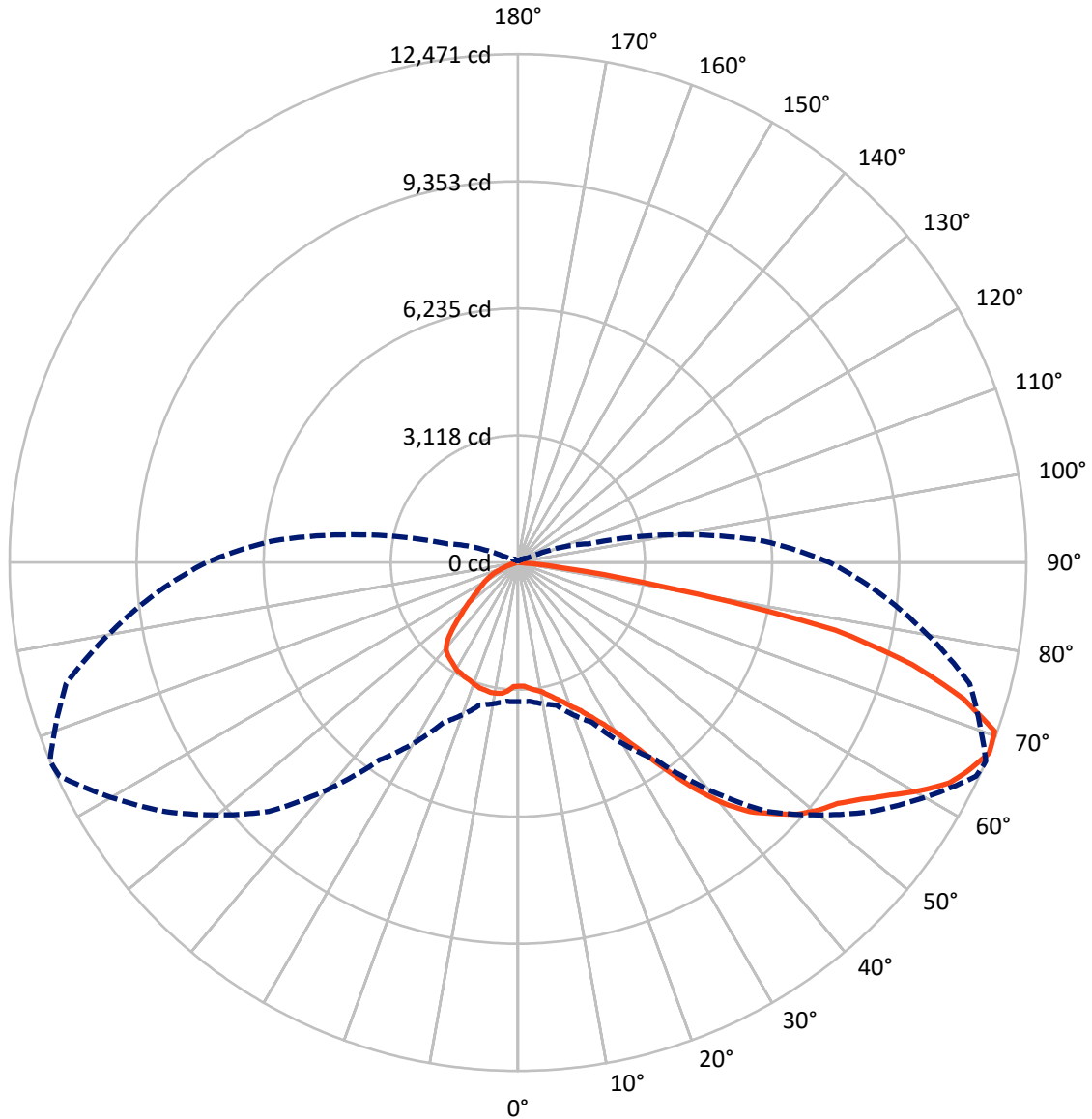
× Max cd
 - - - 1/2 Max cd



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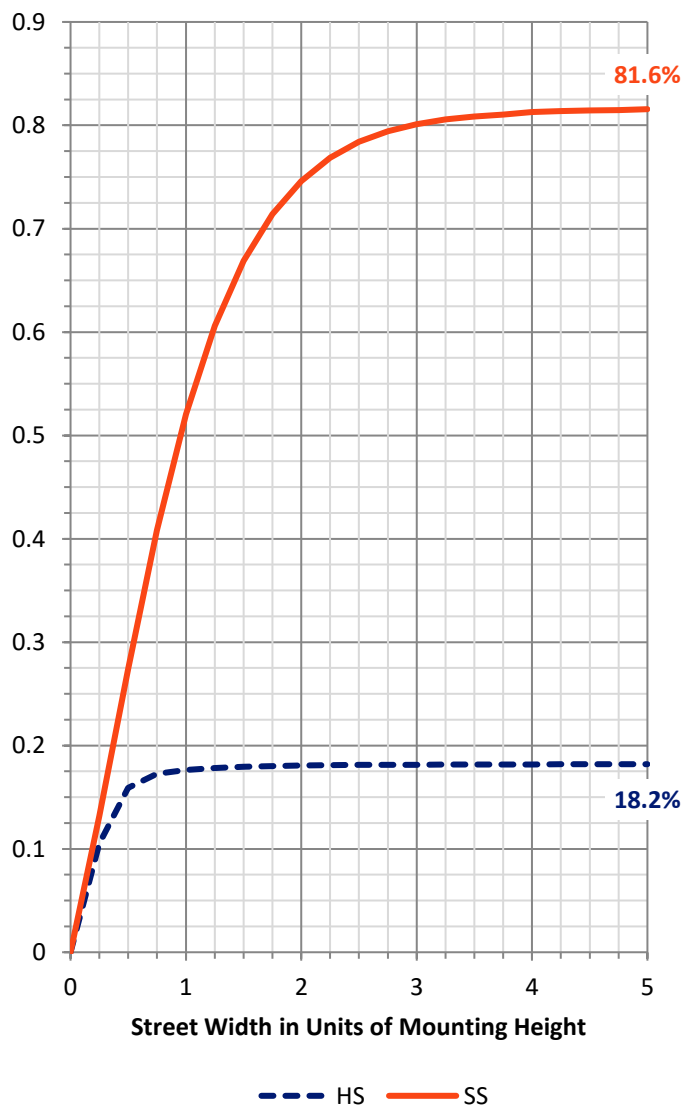
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3750.3	0.0	3750.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	16624.7	0.0	16624.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	20375.0	0.0	20375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.1	1.5
10°-20°	953.7	4.7
20°-30°	1626.0	8.0
30°-40°	2480.0	12.2
40°-50°	3496.1	17.2
50°-60°	4225.8	20.7
60°-70°	4450.5	21.8
70°-80°	2647.5	13.0
80°-90°	190.3	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°	20375.0	100.0
0°-180°	20375.0	100.0

Coefficient of Utilization



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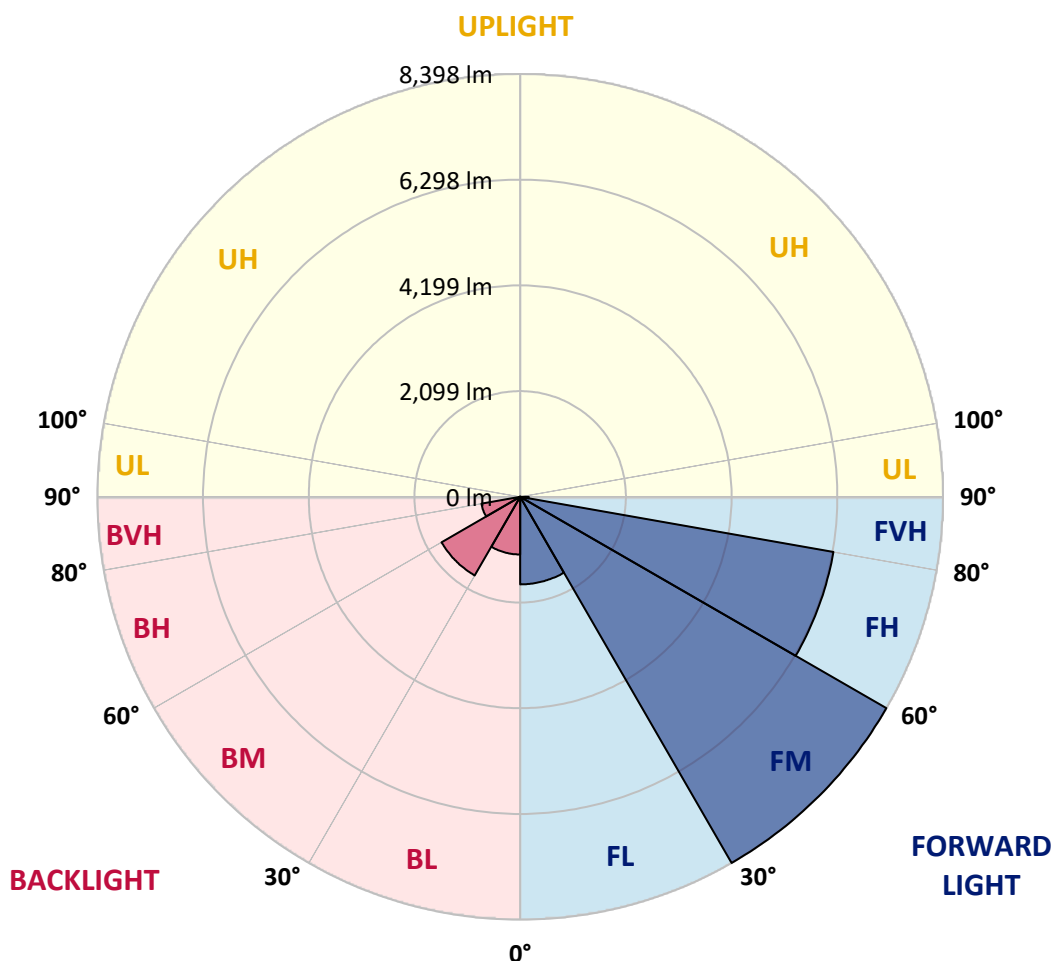
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1739.5	8.5			
FM (30°-60°)	8397.7	41.2			
FH (60°-80°)	6317.3	31.0			G3/7500
FVH (80°-90°)	170.3	0.8			G2/225
BL (0°-30°)	1145.3	5.6	B3/2500		
BM (30°-60°)	1804.2	8.9	B2/2500		
BH (60°-80°)	780.7	3.8	B2/1000		G2/1000
BVH (80°-90°)	20.0	0.1			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°	3033.2	3033.2	3033.2	3033.2	3033.2	3033.2	3033.2	3033.2	3033.2	3033.2	3033.2
2.5°	3097.3	3109.0	3085.7	3079.8	3049.2	3053.6	3047.8	3033.2	3039.0	3027.4	3034.7
5°	3216.8	3186.2	3177.5	3160.0	3132.3	3116.3	3093.0	3085.7	3101.7	3088.6	3091.5
7.5°	3343.7	3349.5	3310.1	3276.6	3227.1	3215.4	3174.6	3149.8	3165.8	3148.3	3158.5
10°	3502.5	3511.3	3469.0	3423.8	3381.6	3320.3	3269.3	3230.0	3225.6	3216.8	3231.4
12.5°	3711.0	3709.5	3662.9	3607.5	3524.4	3482.1	3384.5	3329.1	3336.4	3304.3	3301.4
15°	3952.9	3932.5	3878.6	3821.7	3718.2	3635.2	3517.1	3448.6	3460.3	3423.8	3415.1
17.5°	4189.0	4168.6	4126.4	4063.7	3969.0	3840.7	3696.4	3597.3	3594.4	3576.9	3524.4
20°	4431.0	4439.7	4382.9	4326.1	4231.3	4059.3	3896.1	3767.8	3770.7	3740.1	3638.1
22.5°	4713.8	4697.7	4629.2	4603.0	4495.1	4307.1	4124.9	3977.7	3948.5	3942.7	3766.3
25°	4983.4	4973.2	4910.5	4879.9	4789.6	4617.6	4381.4	4205.1	4200.7	4181.8	3932.5
27.5°	5197.7	5209.3	5203.5	5181.6	5082.5	4913.5	4706.5	4495.1	4498.0	4470.4	4148.2
30°	5502.3	5467.3	5454.2	5471.7	5463.0	5280.8	5060.7	4907.6	4897.4	4826.0	4420.8
32.5°	5680.1	5697.6	5715.1	5776.3	5777.8	5642.2	5499.4	5426.5	5467.3	5479.0	5098.6
35°	5843.4	5843.4	5944.0	6098.5	6152.4	6105.7	6044.5	6136.4	6216.5	6378.3	5932.3
37.5°	5989.1	6031.4	6126.1	6320.0	6496.4	6541.6	6675.7	6927.8	7025.5	7172.7	6634.8
40°	6111.6	6142.2	6263.2	6500.7	6803.9	7010.9	7261.6	7662.4	7764.5	7736.8	7025.5
42.5°	5976.0	6025.6	6219.4	6707.7	7089.6	7478.8	7806.7	8239.6	8363.5	8107.0	7436.5
45°	5903.1	5922.1	6124.7	6678.6	7299.5	7952.5	8324.2	8787.7	8787.7	8500.5	7726.6
47.5°	5757.4	5790.9	6031.4	6640.7	7522.5	8347.5	8723.5	9195.8	9226.4	8872.2	8015.2
50°	5610.2	5652.4	5925.0	6573.6	7647.8	8743.9	9063.1	9536.9	9548.5	9127.3	8270.2
52.5°	5464.4	5486.3	5790.9	6529.9	7786.3	8948.0	9356.1	9813.8	9819.6	9509.2	8551.5
55°	5203.5	5257.4	5572.3	6369.6	7779.0	9041.3	9509.2	10184.0	10240.9	9924.6	8828.5
57.5°	4958.6	4974.7	5318.7	6137.8	7661.0	9149.1	9838.6	10714.6	10770.0	10302.1	9034.0
60°	4632.1	4649.6	5019.9	5862.3	7486.1	9257.0	10256.9	11334.0	11358.8	10698.5	9188.5
62.5°	4291.1	4350.8	4655.5	5439.6	7123.1	9275.9	10611.1	11905.4	11895.2	11042.5	9290.5
65°	3890.2	3912.1	4205.1	4945.5	6567.8	9131.6	10756.8	12182.3	12207.1	11284.5	9223.5
67.5°	3409.2	3418.0	3619.1	4330.4	5910.4	8634.6	10635.9	12408.3	12470.9	11474.0	8943.6
70°	2693.6	2706.7	2891.8	3568.1	4977.6	7873.8	10431.8	12434.5	12408.3	11303.4	8518.0
72.5°	1877.3	1858.4	2039.1	2502.6	3769.3	6476.0	9446.5	11376.3	11422.9	10458.0	7627.4
75°	899.3	905.1	1263.7	1539.2	2116.4	4626.3	7862.1	9796.3	9991.6	9114.2	6213.6
77.5°	153.0	156.0	333.8	606.3	852.7	1941.5	5213.7	7802.3	7968.5	7153.7	4206.5
80°	122.4	122.4	163.2	326.5	451.8	804.6	1975.0	3458.8	3639.5	3240.2	1550.8
82.5°	83.1	87.5	116.6	190.9	160.3	314.8	717.1	1094.6	1123.8	1018.8	637.0
85°	46.6	48.1	59.8	77.3	67.0	116.6	147.2	150.1	158.9	123.9	94.7
87.5°	5.8	13.1	13.1	13.1	5.8	5.8	4.4	4.4	5.8	4.4	4.4
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°	3033.2	3033.2	3033.2	3033.2	3033.2	3033.2	3033.2	3033.2	3033.2	3033.2	3033.2
2.5°	3030.3	3012.8	3050.7	3043.4	3069.6	3065.3	3087.1	3098.8	3123.6	3155.6	3152.7
5°	3094.4	3093.0	3138.1	3160.0	3183.3	3205.2	3206.6	3228.5	3250.4	3298.5	3297.0
7.5°	3155.6	3168.7	3232.9	3234.3	3243.1	3259.1	3237.3	3244.5	3250.4	3267.9	3273.7
10°	3227.1	3251.8	3253.3	3247.5	3219.8	3218.3	3168.7	3174.6	3148.3	3168.7	3158.5
12.5°	3318.9	3298.5	3286.8	3247.5	3205.2	3148.3	3101.7	3037.6	3023.0	3023.0	3027.4
15°	3409.2	3378.6	3278.1	3215.4	3138.1	3047.8	2972.0	2899.1	2862.7	2846.6	2843.7
17.5°	3488.0	3423.8	3281.0	3199.4	3053.6	2921.0	2807.3	2690.7	2633.8	2597.4	2591.6
20°	3552.1	3483.6	3289.7	3146.9	2961.8	2766.5	2594.5	2447.3	2335.0	2251.9	2260.7
22.5°	3659.9	3550.6	3283.9	3084.2	2855.4	2601.8	2342.3	2139.7	1951.7	1905.0	1918.2
25°	3789.7	3646.8	3317.4	3046.3	2731.5	2394.8	2053.7	1819.0	1617.9	1553.8	1558.1
27.5°	3939.8	3763.4	3355.3	2983.6	2603.2	2139.7	1728.7	1438.6	1278.3	1151.5	1141.3
30°	4178.8	3922.3	3396.1	2942.8	2423.9	1855.5	1374.5	1072.8	871.6	803.1	803.1
32.5°	4740.0	4244.4	3461.7	2845.2	2187.8	1537.7	1002.8	702.5	524.7	463.5	465.0
35°	5452.8	4894.5	3610.4	2725.6	1909.4	1166.1	619.5	390.6	307.5	276.9	274.0
37.5°	6133.4	5492.1	3928.1	2585.7	1558.1	739.0	348.4	240.5	209.9	208.4	209.9
40°	6553.2	5964.4	4247.3	2399.2	1138.4	406.7	225.9	196.8	192.4	188.0	188.0
42.5°	6940.9	6289.4	4489.3	2113.5	679.2	246.3	198.2	179.3	176.4	169.1	169.1
45°	7255.8	6522.6	4508.3	1733.0	360.0	218.6	182.2	163.2	157.4	153.0	151.6
47.5°	7554.6	6750.0	4439.7	1327.8	256.5	202.6	170.5	150.1	142.8	145.8	144.3
50°	7755.7	6977.4	4253.2	1043.6	244.9	188.0	157.4	137.0	134.1	139.9	138.5
52.5°	7972.9	7163.9	3890.2	811.9	227.4	173.5	144.3	128.3	122.4	126.8	128.3
55°	8144.9	7161.0	3623.5	634.0	215.7	161.8	135.6	121.0	110.8	110.8	109.3
57.5°	8229.4	7092.5	3409.2	498.5	202.6	150.1	126.8	106.4	94.7	91.8	90.4
60°	8225.0	7025.5	3160.0	409.6	189.5	137.0	113.7	90.4	78.7	72.9	72.9
62.5°	8178.4	6868.0	2765.0	352.7	176.4	126.8	94.7	74.3	65.6	59.8	61.2
65°	8058.9	6564.9	2279.6	300.3	163.2	122.4	80.2	65.6	56.8	51.0	51.0
67.5°	7644.9	6056.2	1778.2	252.2	150.1	102.0	70.0	55.4	48.1	42.3	42.3
70°	7059.0	5280.8	1170.4	212.8	134.1	88.9	62.7	48.1	40.8	35.0	33.5
72.5°	6016.8	4219.7	594.7	182.2	115.1	78.7	55.4	42.3	35.0	29.2	27.7
75°	4614.7	2842.3	370.2	145.8	90.4	70.0	49.6	37.9	29.2	21.9	20.4
77.5°	2751.9	1144.2	262.4	102.0	61.2	55.4	40.8	30.6	23.3	16.0	16.0
80°	868.7	505.8	177.8	70.0	39.4	37.9	30.6	21.9	16.0	11.7	11.7
82.5°	491.2	320.7	119.5	46.6	27.7	24.8	17.5	13.1	10.2	8.7	8.7
85°	81.6	64.1	36.4	17.5	13.1	11.7	7.3	4.4	2.9	1.5	2.9
87.5°	4.4	4.4	5.8	5.8	5.8	4.4	2.9	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)