

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: P553626

Luminaire Tested: **VERD-G-CA2-160-750-U-T3-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553626
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-CA2-160-750-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1460mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21421 lumens
Efficiency: N/A
Efficacy: 131.7 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

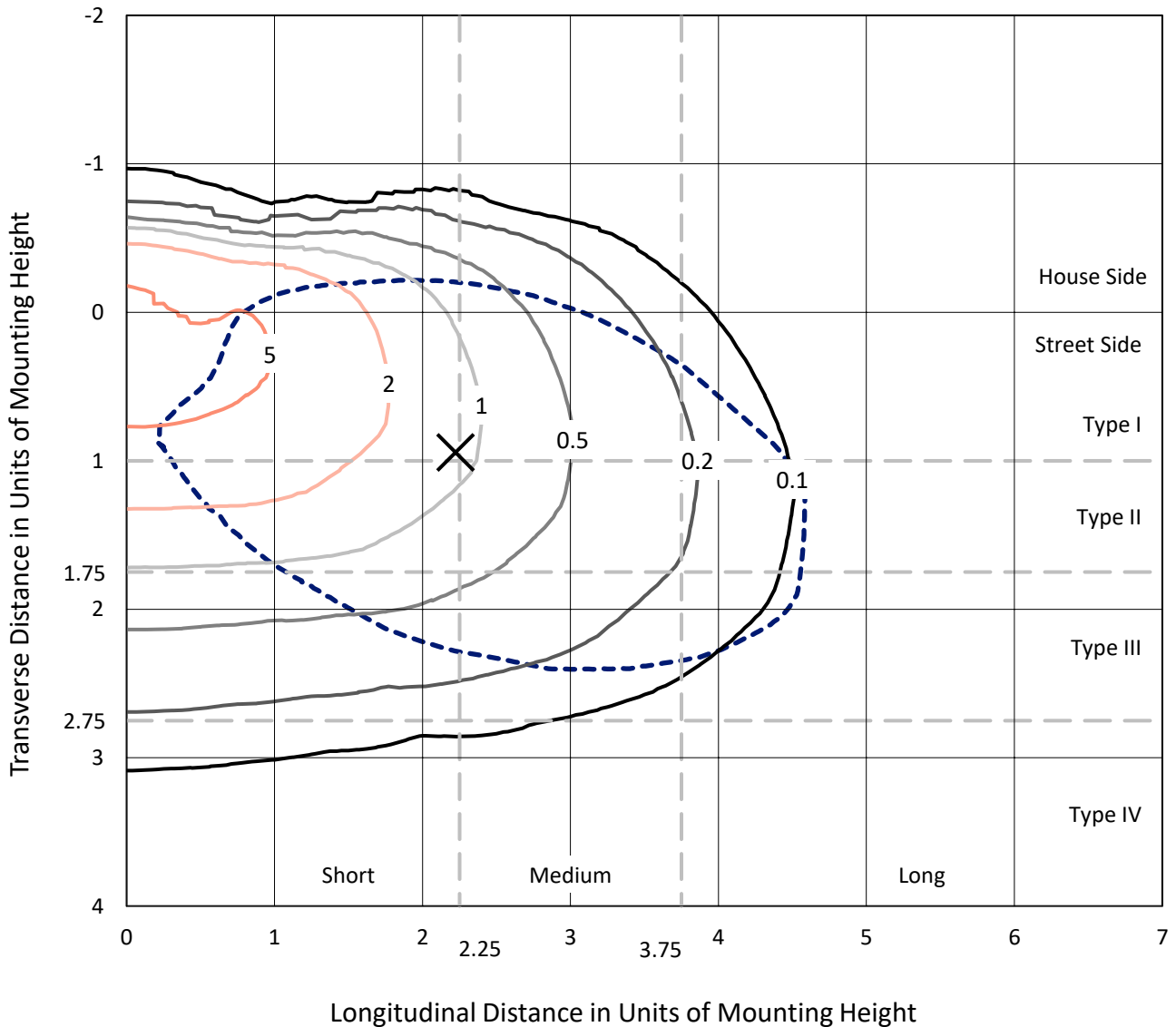
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

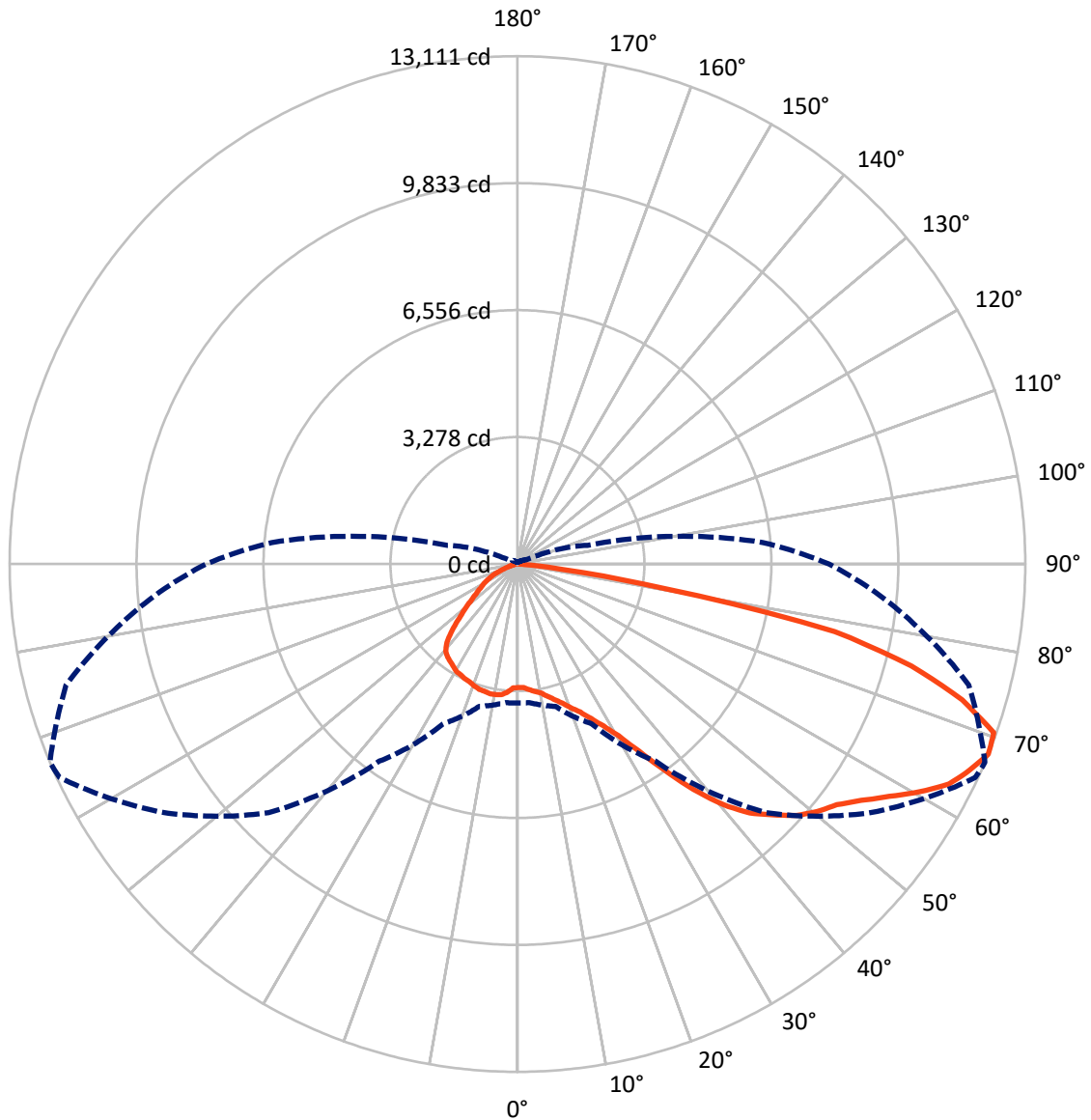
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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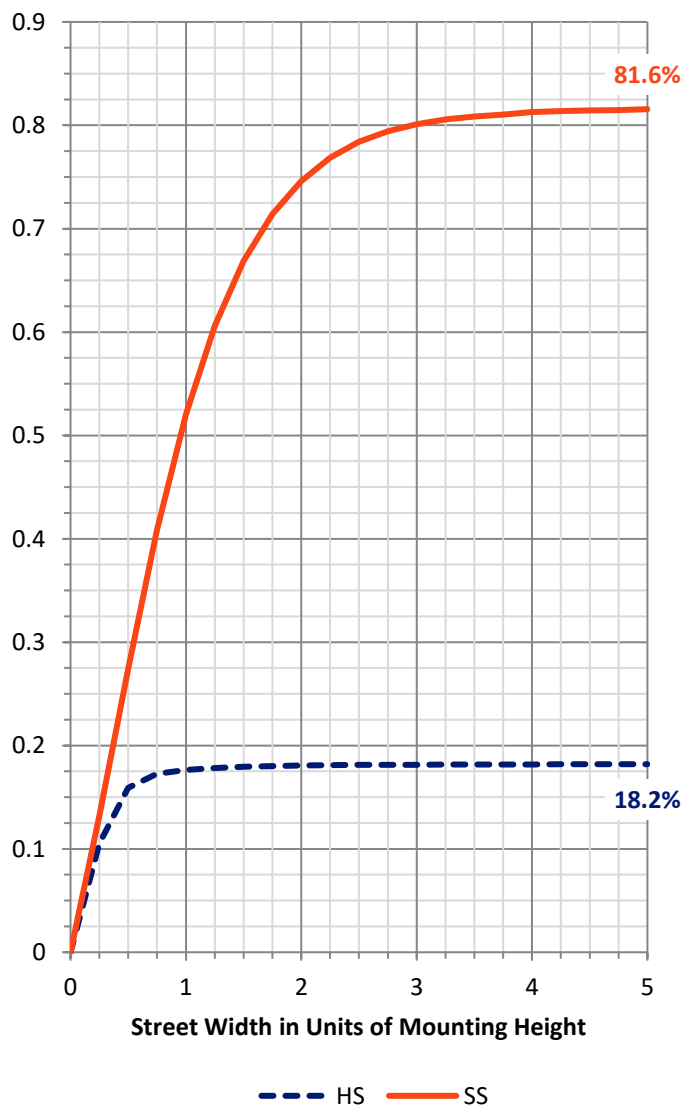
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3942.8	0.0	3942.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	17478.2	0.0	17478.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	21421.0	0.0	21421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	1.5
10°-20°	1002.7	4.7
20°-30°	1709.5	8.0
30°-40°	2607.3	12.2
40°-50°	3675.6	17.2
50°-60°	4442.7	20.7
60°-70°	4679.0	21.8
70°-80°	2783.4	13.0
80°-90°	200.1	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°	21421.0	100.0
0°-180°	21421.0	100.0

Coefficient of Utilization



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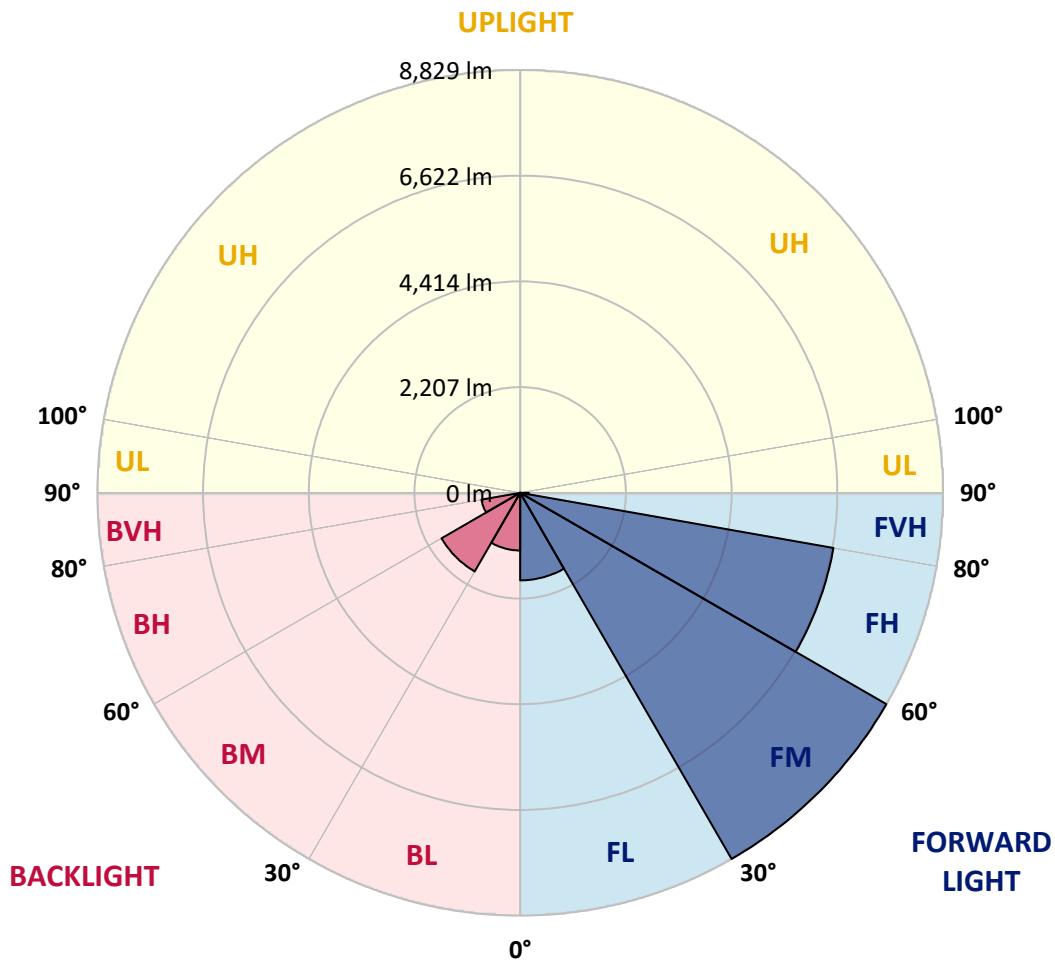
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1828.8	8.5			
FM	(30°-60°)	8828.8	41.2			
FH	(60°-80°)	6641.6	31.0			G3/7500
FVH	(80°-90°)	179.1	0.8			G2/225
BL	(0°-30°)	1204.1	5.6	B3/2500		
BM	(30°-60°)	1896.9	8.9	B2/2500		
BH	(60°-80°)	820.8	3.8	B2/1000		G2/1000
BVH	(80°-90°)	21.0	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°	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9
2.5°	3256.3	3268.6	3244.1	3237.9	3205.8	3210.4	3204.2	3188.9	3195.0	3182.8	3190.4
5°	3382.0	3349.8	3340.6	3322.2	3293.1	3276.3	3251.7	3244.1	3260.9	3247.1	3250.2
7.5°	3515.3	3521.4	3480.1	3444.8	3392.7	3380.5	3337.6	3311.5	3328.4	3310.0	3320.7
10°	3682.3	3691.5	3647.1	3599.6	3555.2	3490.8	3437.2	3395.8	3391.2	3382.0	3397.3
12.5°	3901.5	3899.9	3850.9	3792.7	3705.3	3660.9	3558.2	3500.0	3507.6	3473.9	3470.9
15°	4155.9	4134.4	4077.7	4017.9	3909.1	3821.8	3697.7	3625.6	3637.9	3599.6	3590.4
17.5°	4404.1	4382.6	4338.2	4272.3	4172.7	4037.9	3886.1	3781.9	3778.9	3760.5	3705.3
20°	4658.5	4667.7	4607.9	4548.1	4448.5	4267.7	4096.1	3961.2	3964.3	3932.1	3824.9
22.5°	4955.8	4938.9	4866.9	4839.3	4725.9	4528.2	4336.7	4181.9	4151.3	4145.1	3959.7
25°	5239.3	5228.5	5162.6	5130.5	5035.4	4854.6	4606.4	4421.0	4416.4	4396.4	4134.4
27.5°	5464.5	5476.8	5470.6	5447.7	5343.5	5165.7	4948.1	4725.9	4729.0	4699.9	4361.2
30°	5784.8	5748.0	5734.2	5752.6	5743.4	5551.9	5320.5	5159.6	5148.8	5073.8	4647.7
32.5°	5971.7	5990.1	6008.5	6072.9	6074.4	5931.9	5781.7	5705.1	5748.0	5760.3	5360.3
35°	6143.4	6143.4	6249.1	6411.5	6468.2	6419.2	6354.8	6451.4	6535.7	6705.8	6236.8
37.5°	6296.6	6341.0	6440.6	6644.5	6829.9	6877.4	7018.4	7283.5	7386.1	7540.9	6975.5
40°	6425.3	6457.5	6584.7	6834.5	7153.2	7370.8	7634.4	8055.8	8163.1	8133.9	7386.1
42.5°	6282.8	6334.9	6538.7	7052.1	7453.6	7862.7	8207.5	8662.6	8792.9	8523.2	7818.3
45°	6206.2	6226.1	6439.1	7021.4	7674.2	8360.7	8751.5	9238.8	9238.8	8936.9	8123.2
47.5°	6053.0	6088.2	6341.0	6981.6	7908.7	8776.0	9171.4	9667.9	9700.0	9327.7	8426.6
50°	5898.2	5942.6	6229.2	6911.1	8040.5	9192.8	9528.4	10026.4	10038.7	9595.8	8694.8
52.5°	5744.9	5767.9	6088.2	6865.1	8186.0	9407.4	9836.4	10317.6	10323.7	9997.3	8990.6
55°	5470.6	5527.3	5858.3	6696.6	8178.4	9505.4	9997.3	10706.8	10766.6	10434.1	9281.7
57.5°	5213.2	5230.1	5591.7	6452.9	8054.3	9618.8	10343.7	11264.6	11322.9	10831.0	9497.8
60°	4869.9	4888.3	5277.6	6163.3	7870.4	9732.2	10783.5	11915.9	11941.9	11247.8	9660.2
62.5°	4511.4	4574.2	4894.5	5718.9	7488.8	9752.2	11155.8	12516.6	12505.9	11609.4	9767.5
65°	4090.0	4112.9	4421.0	5199.4	6905.0	9600.4	11309.1	12807.7	12833.8	11863.8	9697.0
67.5°	3584.3	3593.5	3804.9	4552.7	6213.9	9077.9	11181.9	13045.3	13111.2	12063.0	9402.8
70°	2831.9	2845.7	3040.3	3751.3	5233.1	8278.0	10967.3	13072.8	13045.3	11883.7	8955.3
72.5°	1973.7	1953.8	2143.8	2631.1	3962.8	6808.4	9931.4	11960.3	12009.4	10994.9	8019.0
75°	945.5	951.6	1328.6	1618.2	2225.0	4863.8	8265.7	10299.2	10504.6	9582.1	6532.6
77.5°	160.9	164.0	350.9	637.5	896.5	2041.1	5481.4	8202.9	8377.6	7521.0	4422.5
80°	128.7	128.7	171.6	343.3	475.0	845.9	2076.4	3636.4	3826.4	3406.5	1630.5
82.5°	87.3	91.9	122.6	200.7	168.6	331.0	753.9	1150.8	1181.5	1071.1	669.7
85°	49.0	50.6	62.8	81.2	70.5	122.6	154.8	157.8	167.0	130.3	99.6
87.5°	6.1	13.8	13.8	13.8	6.1	6.1	4.6	4.6	6.1	4.6	4.6
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°	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9
2.5°	3185.8	3167.5	3207.3	3199.6	3227.2	3222.6	3245.6	3257.9	3283.9	3317.6	3314.6
5°	3253.3	3251.7	3299.2	3322.2	3346.7	3369.7	3371.3	3394.3	3417.2	3467.8	3466.3
7.5°	3317.6	3331.4	3398.8	3400.4	3409.6	3426.4	3403.4	3411.1	3417.2	3435.6	3441.8
10°	3392.7	3418.8	3420.3	3414.2	3385.1	3383.5	3331.4	3337.6	3310.0	3331.4	3320.7
12.5°	3489.3	3467.8	3455.5	3414.2	3369.7	3310.0	3260.9	3193.5	3178.2	3178.2	3182.8
15°	3584.3	3552.1	3446.4	3380.5	3299.2	3204.2	3124.5	3047.9	3009.6	2992.8	2989.7
17.5°	3667.0	3599.6	3449.4	3363.6	3210.4	3070.9	2951.4	2828.8	2769.0	2730.7	2724.6
20°	3734.4	3662.4	3458.6	3308.4	3113.8	2908.5	2727.7	2572.9	2454.9	2367.5	2376.7
22.5°	3847.8	3732.9	3452.5	3242.5	3002.0	2735.3	2462.6	2249.6	2051.9	2002.8	2016.6
25°	3984.2	3834.0	3487.7	3202.7	2871.7	2517.7	2159.1	1912.4	1701.0	1633.5	1638.1
27.5°	4142.1	3956.6	3527.6	3136.8	2736.9	2249.6	1817.4	1512.5	1343.9	1210.6	1199.9
30°	4393.4	4123.7	3570.5	3093.9	2548.4	1950.7	1445.0	1127.8	916.4	844.3	844.3
32.5°	4983.3	4462.3	3639.4	2991.2	2300.1	1616.7	1054.3	738.6	551.7	487.3	488.8
35°	5732.7	5145.8	3795.7	2865.6	2007.4	1225.9	651.3	410.7	323.3	291.2	288.1
37.5°	6448.3	5774.1	4129.8	2718.5	1638.1	776.9	366.2	252.8	220.7	219.1	220.7
40°	6889.6	6270.6	4465.4	2522.3	1196.8	427.5	237.5	206.9	202.3	197.7	197.7
42.5°	7297.3	6612.3	4719.8	2222.0	714.1	259.0	208.4	188.5	185.4	177.8	177.8
45°	7628.3	6857.5	4739.7	1822.0	378.5	229.9	191.5	171.6	165.5	160.9	159.4
47.5°	7942.4	7096.5	4667.7	1396.0	269.7	213.0	179.3	157.8	150.2	153.2	151.7
50°	8153.9	7335.6	4471.5	1097.2	257.4	197.7	165.5	144.0	141.0	147.1	145.6
52.5°	8382.2	7531.7	4090.0	853.5	239.1	182.4	151.7	134.9	128.7	133.3	134.9
55°	8563.0	7528.6	3809.5	666.6	226.8	170.1	142.5	127.2	116.5	116.5	114.9
57.5°	8651.9	7456.6	3584.3	524.1	213.0	157.8	133.3	111.9	99.6	96.5	95.0
60°	8647.3	7386.1	3322.2	430.6	199.2	144.0	119.5	95.0	82.7	76.6	76.6
62.5°	8598.3	7220.6	2906.9	370.8	185.4	133.3	99.6	78.2	69.0	62.8	64.4
65°	8472.6	6901.9	2396.7	315.7	171.6	128.7	84.3	69.0	59.8	53.6	53.6
67.5°	8037.4	6367.1	1869.5	265.1	157.8	107.3	73.6	58.2	50.6	44.4	44.4
70°	7421.4	5551.9	1230.5	223.7	141.0	93.5	65.9	50.6	42.9	36.8	35.2
72.5°	6325.7	4436.3	625.2	191.5	121.1	82.7	58.2	44.4	36.8	30.6	29.1
75°	4851.6	2988.2	389.2	153.2	95.0	73.6	52.1	39.8	30.6	23.0	21.5
77.5°	2893.2	1202.9	275.8	107.3	64.4	58.2	42.9	32.2	24.5	16.9	16.9
80°	913.3	531.7	187.0	73.6	41.4	39.8	32.2	23.0	16.9	12.3	12.3
82.5°	516.4	337.1	125.7	49.0	29.1	26.1	18.4	13.8	10.7	9.2	9.2
85°	85.8	67.4	38.3	18.4	13.8	12.3	7.7	4.6	3.1	1.5	3.1
87.5°	4.6	4.6	6.1	6.1	6.1	4.6	3.1	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)