

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: P553618

Luminaire Tested: **VERD-G-CA2-160-740-U-T3-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553618
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-CA2-160-740-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1460mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21035 lumens
Efficiency: N/A
Efficacy: 129.4 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

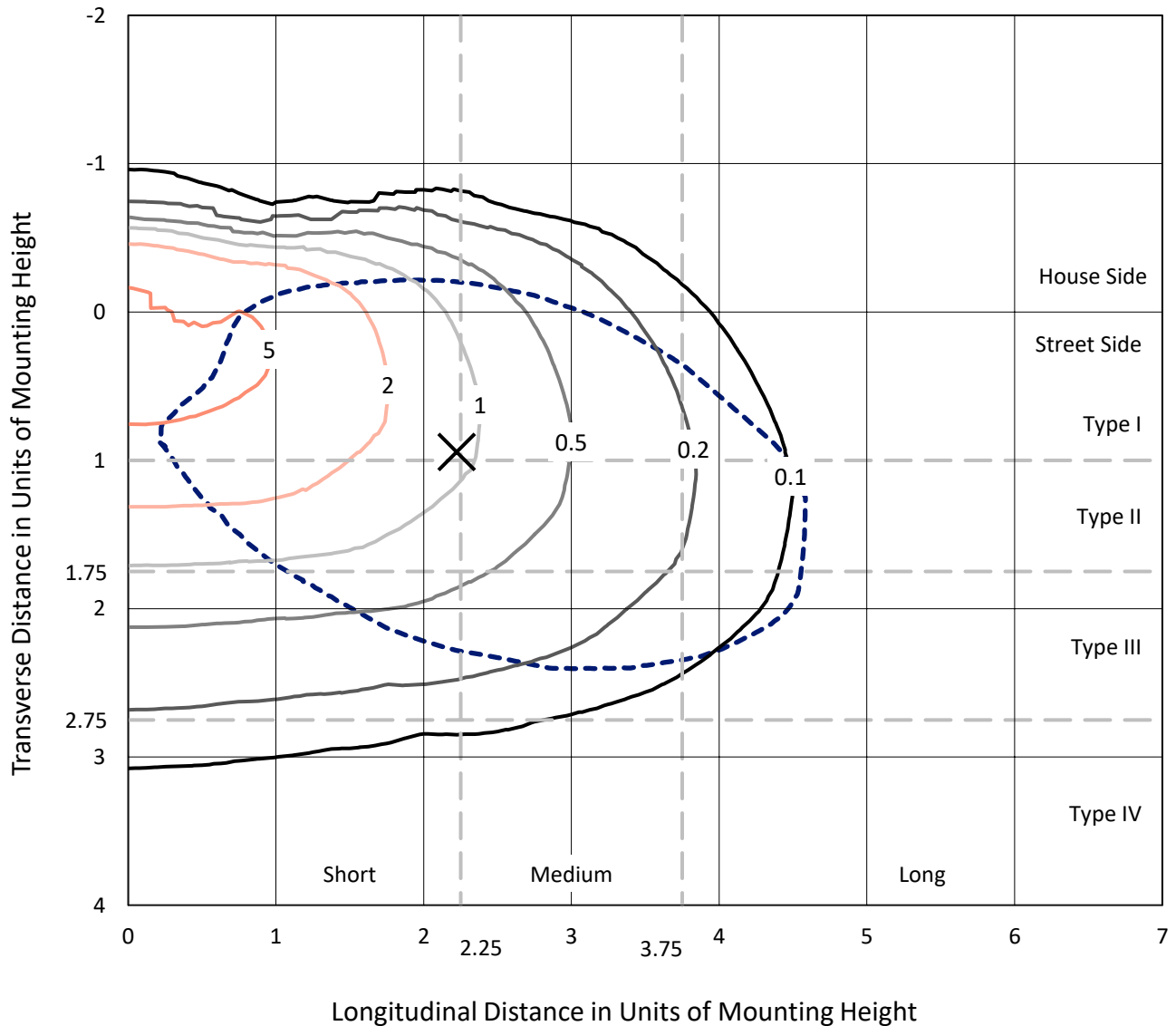
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

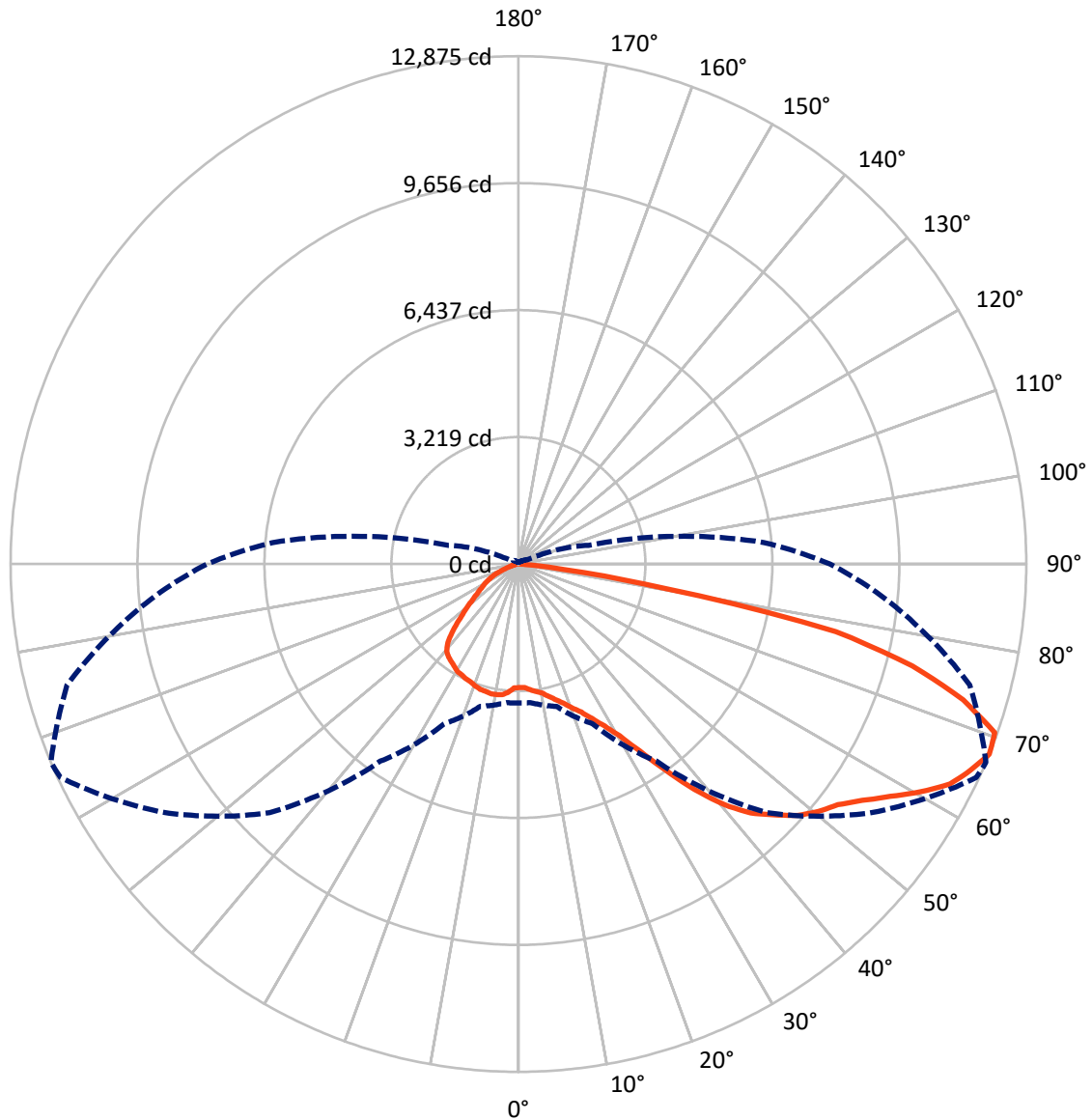
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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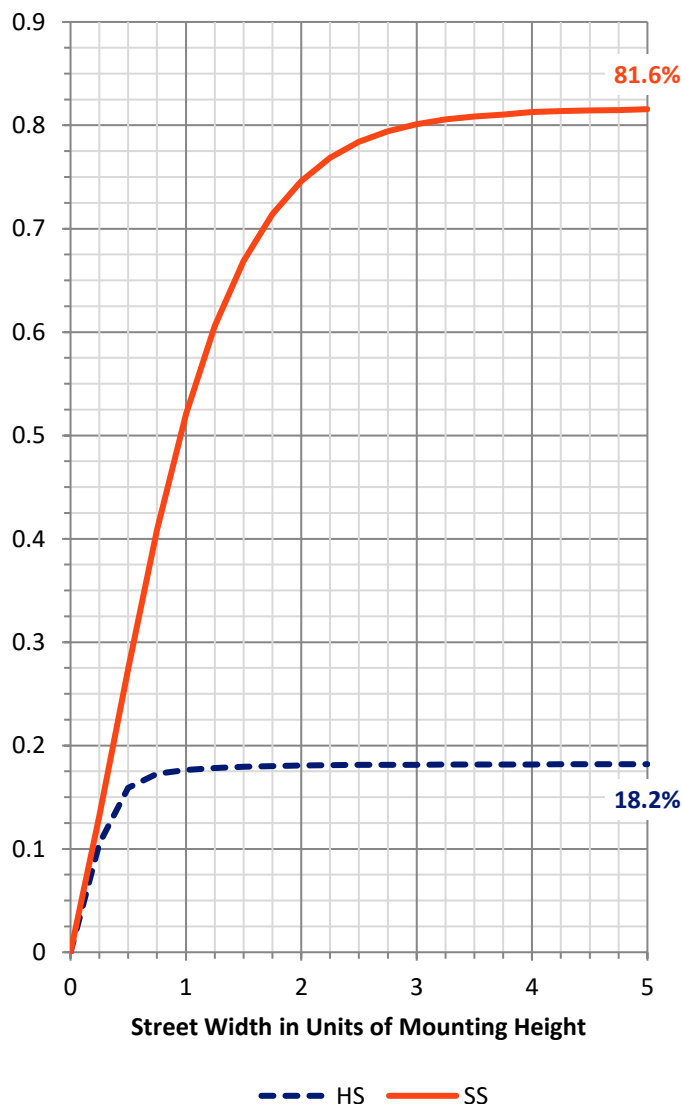
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3871.7	0.0	3871.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	17163.3	0.0	17163.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	21035.0	0.0	21035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.9	1.5
10°-20°	984.6	4.7
20°-30°	1678.7	8.0
30°-40°	2560.3	12.2
40°-50°	3609.3	17.2
50°-60°	4362.7	20.7
60°-70°	4594.7	21.8
70°-80°	2733.2	13.0
80°-90°	196.5	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°	21035.0	100.0
0°-180°	21035.0	100.0

Coefficient of Utilization



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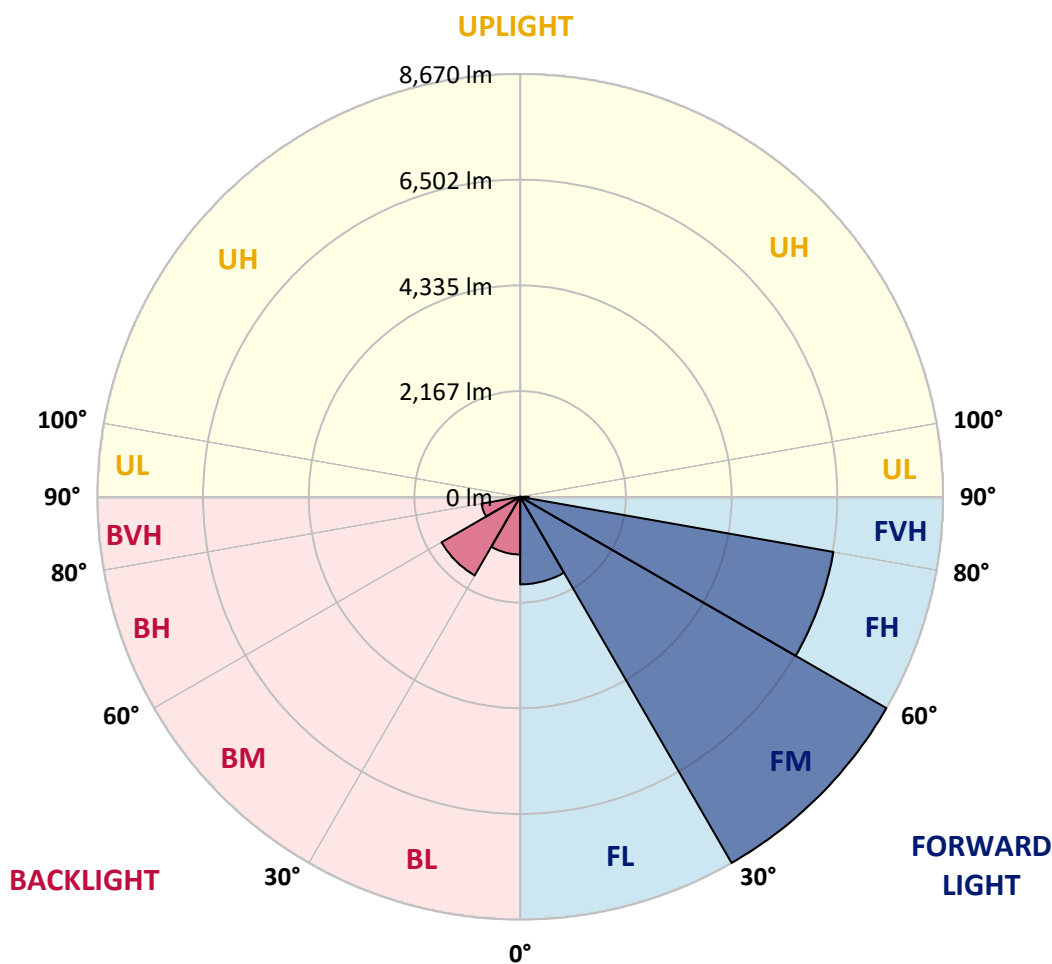
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1795.8	8.5			
FM	(30°-60°)	8669.7	41.2			
FH	(60°-80°)	6521.9	31.0			G3/7500
FVH	(80°-90°)	175.8	0.8			G2/225
BL	(0°-30°)	1182.4	5.6	B3/2500		
BM	(30°-60°)	1862.7	8.9	B2/2500		
BH	(60°-80°)	806.0	3.8	B2/1000		G2/1000
BVH	(80°-90°)	20.6	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°	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4
2.5°	3197.7	3209.7	3185.6	3179.6	3148.0	3152.5	3146.5	3131.4	3137.5	3125.4	3133.0
5°	3321.0	3289.4	3280.4	3262.4	3233.8	3217.2	3193.1	3185.6	3202.2	3188.6	3191.6
7.5°	3452.0	3458.0	3417.4	3382.7	3331.6	3319.5	3277.4	3251.8	3268.4	3250.3	3260.9
10°	3616.0	3625.0	3581.4	3534.7	3491.1	3427.9	3375.2	3334.6	3330.1	3321.0	3336.1
12.5°	3831.2	3829.7	3781.5	3724.3	3638.6	3594.9	3494.1	3436.9	3444.4	3411.3	3408.3
15°	4081.0	4059.9	4004.2	3945.5	3838.7	3752.9	3631.0	3560.3	3572.3	3534.7	3525.7
17.5°	4324.7	4303.7	4260.0	4195.3	4097.5	3965.1	3816.1	3713.8	3710.8	3692.7	3638.6
20°	4574.5	4583.6	4524.9	4466.2	4368.4	4190.8	4022.3	3889.9	3892.9	3861.3	3755.9
22.5°	4866.5	4849.9	4779.2	4752.1	4640.7	4446.6	4258.5	4106.5	4076.4	4070.4	3888.4
25°	5144.8	5134.3	5069.6	5038.0	4944.7	4767.1	4523.4	4341.3	4336.8	4317.2	4059.9
27.5°	5366.0	5378.1	5372.1	5349.5	5247.2	5072.6	4858.9	4640.7	4643.8	4615.2	4282.6
30°	5680.5	5644.4	5630.9	5648.9	5639.9	5451.8	5224.6	5066.6	5056.1	4982.3	4564.0
32.5°	5864.1	5882.2	5900.2	5963.4	5964.9	5825.0	5677.5	5602.3	5644.4	5656.5	5263.7
35°	6032.7	6032.7	6136.5	6296.0	6351.7	6303.5	6240.3	6335.1	6417.9	6584.9	6124.5
37.5°	6183.1	6226.8	6324.6	6524.7	6706.8	6753.5	6891.9	7152.2	7253.0	7405.0	6849.8
40°	6309.5	6341.1	6466.0	6711.3	7024.3	7238.0	7496.8	7910.6	8016.0	7987.4	7253.0
42.5°	6169.6	6220.8	6420.9	6925.0	7319.2	7721.0	8059.6	8506.5	8634.4	8369.6	7677.4
45°	6094.4	6113.9	6323.1	6894.9	7535.9	8210.1	8593.8	9072.3	9072.3	8775.9	7976.8
47.5°	5943.9	5978.5	6226.8	6855.8	7766.2	8617.9	9006.1	9493.7	9525.3	9159.6	8274.8
50°	5791.9	5835.5	6116.9	6786.6	7895.6	9027.2	9356.7	9845.8	9857.8	9422.9	8538.1
52.5°	5641.4	5664.0	5978.5	6741.4	8038.5	9237.8	9659.2	10131.7	10137.7	9817.2	8828.5
55°	5372.1	5427.7	5752.8	6575.9	8031.0	9334.2	9817.2	10513.9	10572.6	10246.0	9114.5
57.5°	5119.3	5135.8	5490.9	6336.6	7909.1	9445.5	10157.3	11061.6	11118.8	10635.8	9326.6
60°	4782.2	4800.2	5182.5	6052.2	7728.5	9556.9	10589.1	11701.2	11726.8	11045.1	9486.1
62.5°	4430.1	4491.8	4806.3	5615.8	7353.9	9576.4	10954.8	12291.0	12280.5	11400.2	9591.5
65°	4016.3	4038.8	4341.3	5105.7	6780.5	9427.4	11105.3	12577.0	12602.5	11650.0	9522.2
67.5°	3519.7	3528.7	3736.4	4470.7	6101.9	8914.3	10980.4	12810.2	12874.9	11845.6	9233.3
70°	2780.8	2794.4	2985.5	3683.7	5138.8	8128.8	10769.7	12837.3	12810.2	11669.6	8793.9
72.5°	1938.2	1918.6	2105.2	2583.7	3891.4	6685.7	9752.5	11744.8	11793.0	10796.8	7874.5
75°	928.4	934.5	1304.6	1589.0	2184.9	4776.2	8116.8	10113.6	10315.3	9409.4	6414.9
77.5°	158.0	161.0	344.6	626.0	880.3	2004.4	5382.6	8055.1	8226.6	7385.5	4342.8
80°	126.4	126.4	168.5	337.1	466.5	830.6	2039.0	3570.8	3757.4	3345.1	1601.1
82.5°	85.8	90.3	120.4	197.1	165.5	325.0	740.4	1130.1	1160.2	1051.8	657.6
85°	48.2	49.7	61.7	79.8	69.2	120.4	152.0	155.0	164.0	127.9	97.8
87.5°	6.0	13.5	13.5	13.5	6.0	6.0	4.5	4.5	6.0	4.5	4.5
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°	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4
2.5°	3128.4	3110.4	3149.5	3142.0	3169.1	3164.6	3187.1	3199.2	3224.7	3257.8	3254.8
5°	3194.6	3193.1	3239.8	3262.4	3286.4	3309.0	3310.5	3333.1	3355.7	3405.3	3403.8
7.5°	3257.8	3271.4	3337.6	3339.1	3348.1	3364.7	3342.1	3349.6	3355.7	3373.7	3379.7
10°	3331.6	3357.2	3358.7	3352.6	3324.1	3322.6	3271.4	3277.4	3250.3	3271.4	3260.9
12.5°	3426.4	3405.3	3393.3	3352.6	3309.0	3250.3	3202.2	3136.0	3120.9	3120.9	3125.4
15°	3519.7	3488.1	3384.3	3319.5	3239.8	3146.5	3068.2	2993.0	2955.4	2938.8	2935.8
17.5°	3600.9	3534.7	3387.3	3303.0	3152.5	3015.6	2898.2	2777.8	2719.1	2681.5	2675.5
20°	3667.1	3596.4	3396.3	3248.8	3057.7	2856.1	2678.5	2526.5	2410.7	2324.9	2333.9
22.5°	3778.5	3665.6	3390.3	3184.1	2947.9	2686.0	2418.2	2209.0	2014.9	1966.7	1980.3
25°	3912.4	3765.0	3424.9	3145.0	2820.0	2472.4	2120.2	1878.0	1670.3	1604.1	1608.6
27.5°	4067.4	3885.3	3464.0	3080.3	2687.5	2209.0	1784.7	1485.2	1319.7	1188.8	1178.2
30°	4314.2	4049.4	3506.1	3038.2	2502.4	1915.6	1419.0	1107.5	899.9	829.1	829.1
32.5°	4893.5	4381.9	3573.9	2937.3	2258.7	1587.5	1035.3	725.3	541.7	478.5	480.0
35°	5629.4	5053.1	3727.3	2813.9	1971.3	1203.8	639.5	403.3	317.5	285.9	282.9
37.5°	6332.1	5670.0	4055.4	2669.5	1608.6	762.9	359.6	248.3	216.7	215.2	216.7
40°	6765.5	6157.6	4384.9	2476.9	1175.2	419.8	233.2	203.1	198.6	194.1	194.1
42.5°	7165.8	6493.1	4634.7	2181.9	701.2	254.3	204.7	185.1	182.1	174.6	174.6
45°	7490.8	6733.9	4654.3	1789.2	371.7	225.7	188.1	168.5	162.5	158.0	156.5
47.5°	7799.3	6968.6	4583.6	1370.9	264.8	209.2	176.1	155.0	147.5	150.5	149.0
50°	8006.9	7203.4	4390.9	1077.4	252.8	194.1	162.5	141.4	138.4	144.5	143.0
52.5°	8231.1	7396.0	4016.3	838.2	234.7	179.1	149.0	132.4	126.4	130.9	132.4
55°	8408.7	7393.0	3740.9	654.6	222.7	167.0	139.9	124.9	114.4	114.4	112.9
57.5°	8496.0	7322.3	3519.7	514.6	209.2	155.0	130.9	109.8	97.8	94.8	93.3
60°	8491.5	7253.0	3262.4	422.8	195.6	141.4	117.4	93.3	81.3	75.2	75.2
62.5°	8443.3	7090.5	2854.6	364.2	182.1	130.9	97.8	76.7	67.7	61.7	63.2
65°	8319.9	6777.5	2353.5	310.0	168.5	126.4	82.8	67.7	58.7	52.7	52.7
67.5°	7892.6	6252.4	1835.8	260.3	155.0	105.3	72.2	57.2	49.7	43.6	43.6
70°	7287.6	5451.8	1208.3	219.7	138.4	91.8	64.7	49.7	42.1	36.1	34.6
72.5°	6211.7	4356.3	614.0	188.1	118.9	81.3	57.2	43.6	36.1	30.1	28.6
75°	4764.1	2934.3	382.2	150.5	93.3	72.2	51.2	39.1	30.1	22.6	21.1
77.5°	2841.0	1181.3	270.9	105.3	63.2	57.2	42.1	31.6	24.1	16.6	16.6
80°	896.8	522.2	183.6	72.2	40.6	39.1	31.6	22.6	16.6	12.0	12.0
82.5°	507.1	331.1	123.4	48.2	28.6	25.6	18.1	13.5	10.5	9.0	9.0
85°	84.3	66.2	37.6	18.1	13.5	12.0	7.5	4.5	3.0	1.5	3.0
87.5°	4.5	4.5	6.0	6.0	6.0	4.5	3.0	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)