

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: P509926

Luminaire Tested: **VERD-M-CA3-170-727-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-170-727-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1060mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19323 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

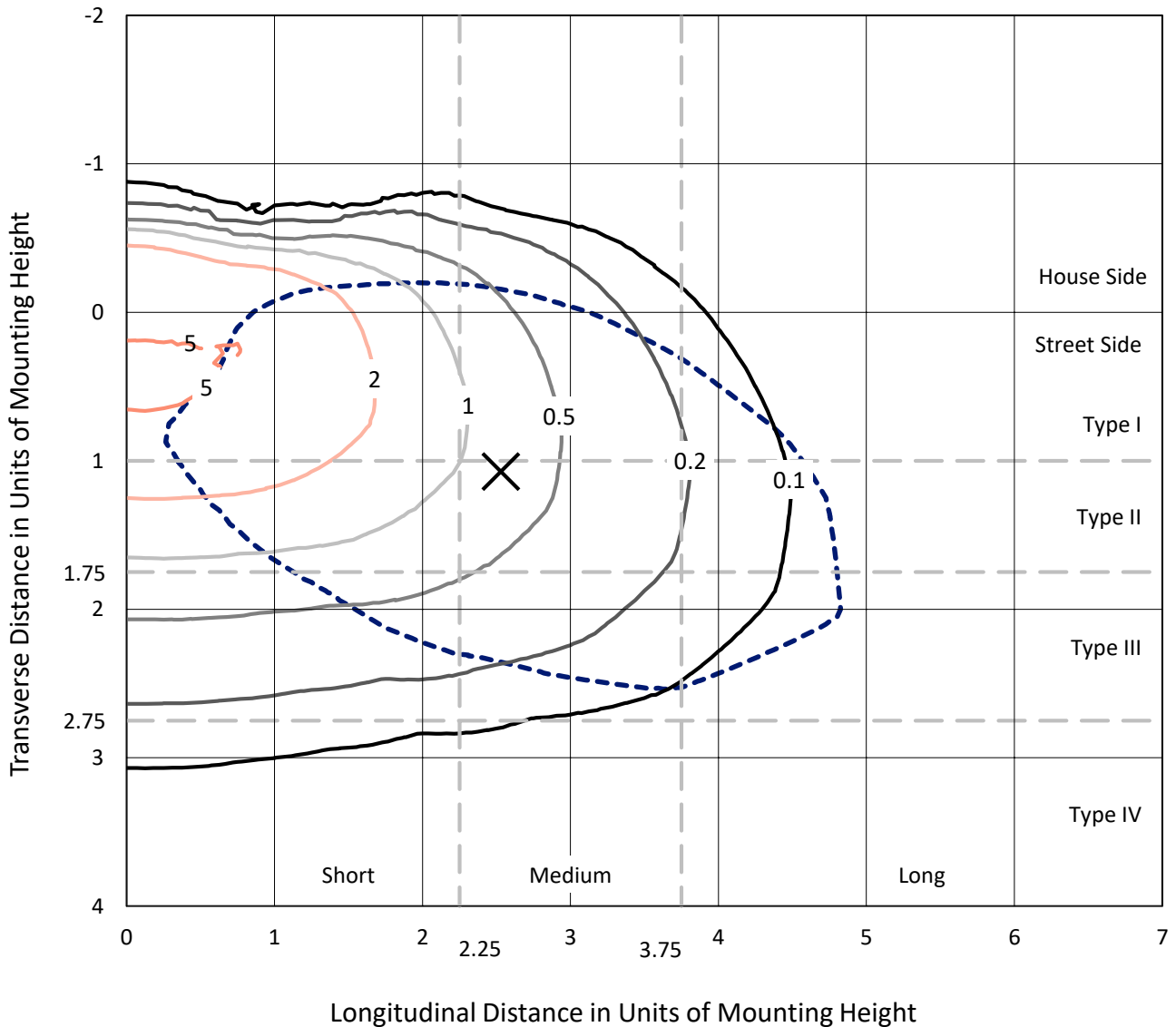
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

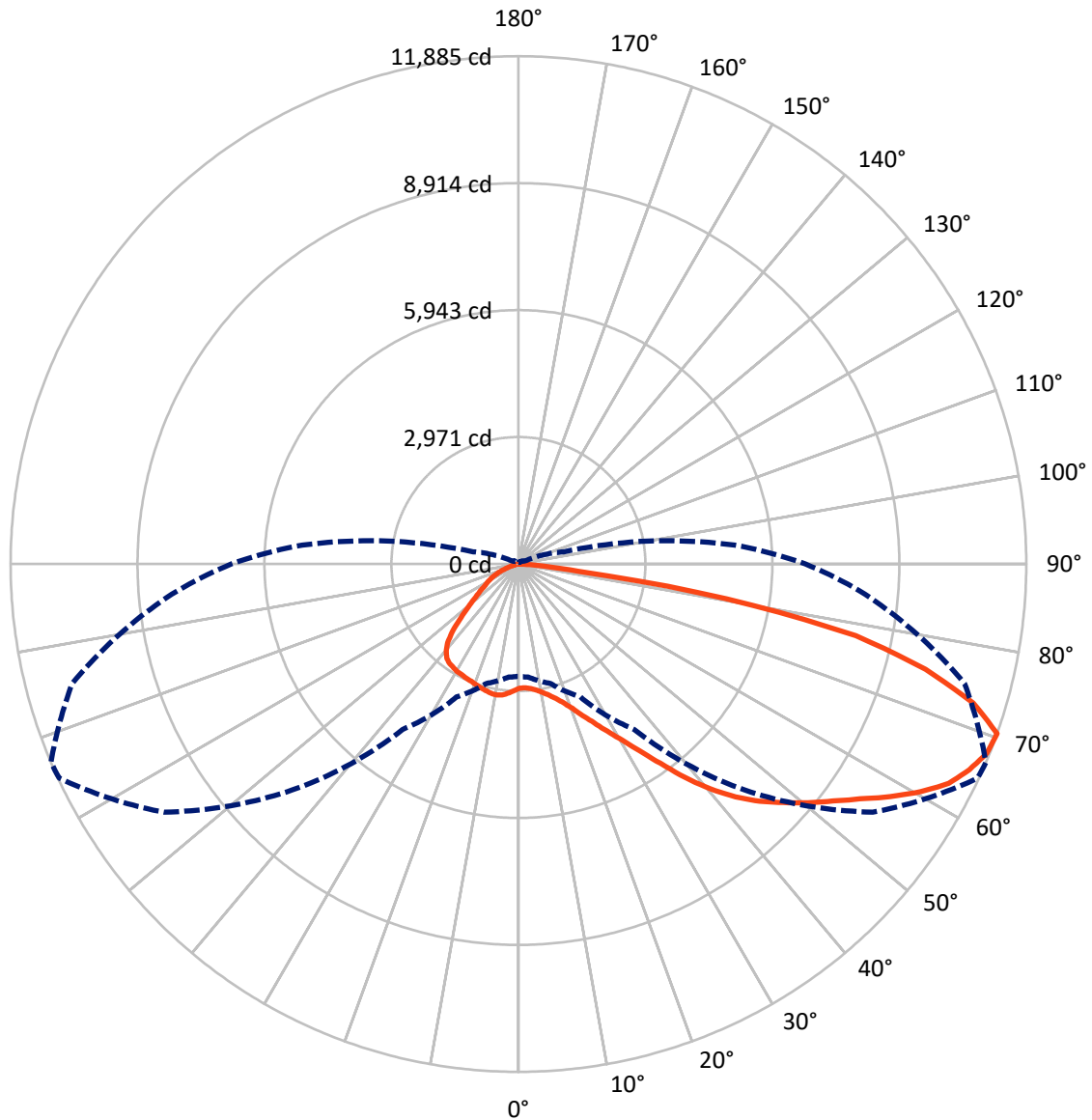
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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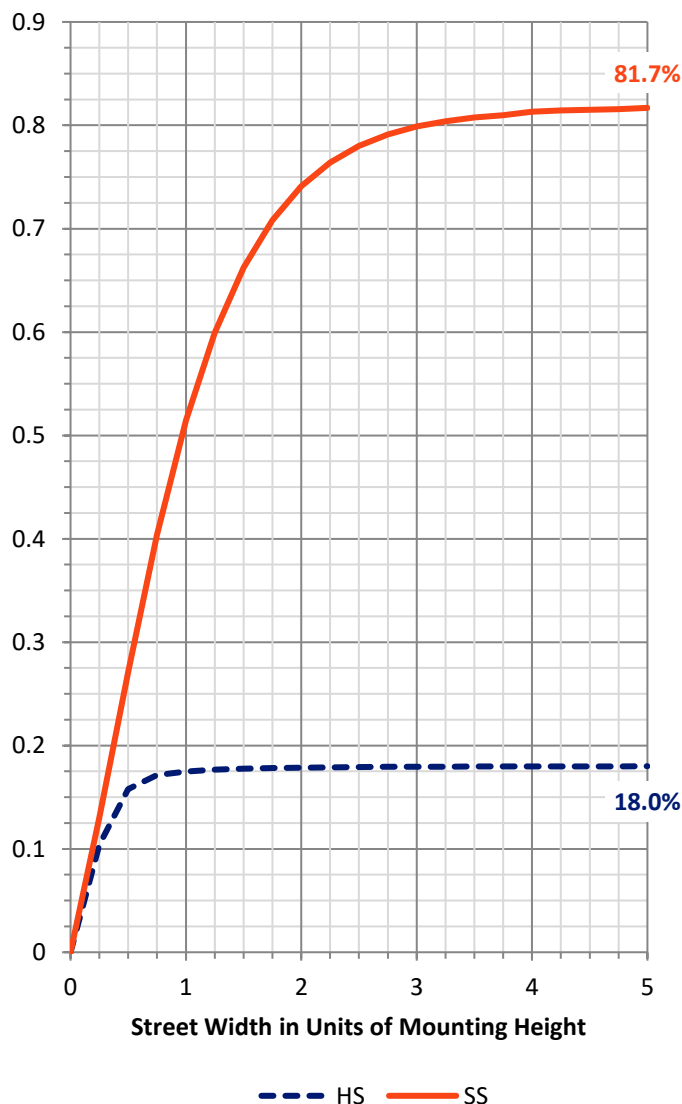
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3520.8	0.0	3520.8
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	15802.2	0.0	15802.2
	% Fixture	81.8	0.0	81.8
Total	Lumens	19323.0	0.0	19323.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	1.5
10°-20°	903.5	4.7
20°-30°	1567.5	8.1
30°-40°	2328.1	12.0
40°-50°	3194.0	16.5
50°-60°	3922.5	20.3
60°-70°	4205.3	21.8
70°-80°	2669.6	13.8
80°-90°	242.9	1.3
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°	19323.0	100.0
0°-180°	19323.0	100.0



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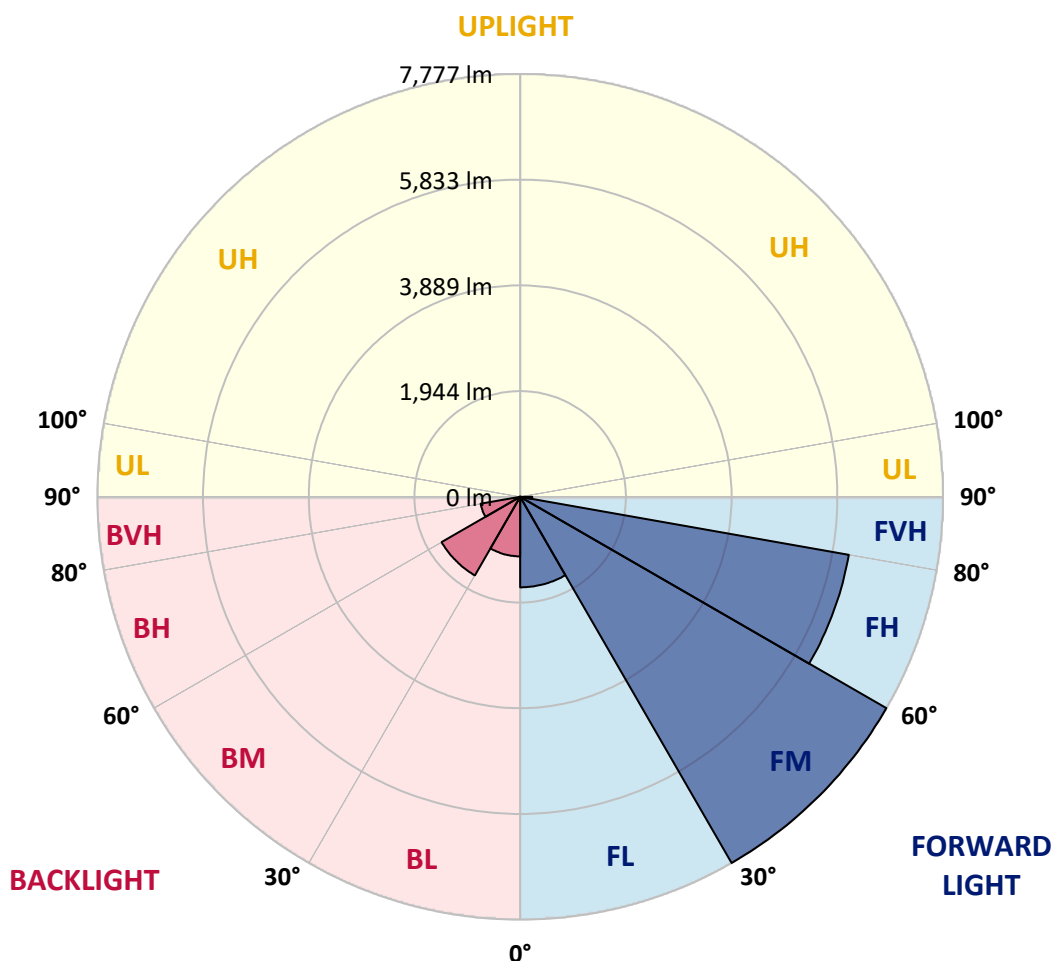
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1664.8	8.6			
FM	(30°-60°)	7777.3	40.2			
FH	(60°-80°)	6138.5	31.8			G3/7500
FVH	(80°-90°)	221.6	1.1			G2/225
BL	(0°-30°)	1095.7	5.7	B3/2500		
BM	(30°-60°)	1667.3	8.6	B2/2500		
BH	(60°-80°)	736.4	3.8	B2/1000		G2/1000
BVH	(80°-90°)	21.4	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2906.6	2906.6	2906.6	2906.6	2906.6	2906.6	2906.6	2906.6	2906.6	2906.6	2906.6
2.5°	2880.4	2907.5	2891.7	2889.8	2908.5	2890.7	2902.9	2900.1	2898.2	2901.0	2920.6
5°	2956.2	2988.0	2966.4	2959.9	2970.2	2938.4	2935.6	2929.1	2927.2	2928.1	2956.2
7.5°	3061.8	3099.2	3090.8	3074.0	3068.4	3016.0	3006.6	2983.3	2975.8	2977.7	3005.7
10°	3228.2	3265.6	3248.8	3211.4	3188.0	3128.2	3094.5	3064.6	3049.7	3051.5	3081.4
12.5°	3441.4	3476.9	3448.9	3380.6	3367.5	3271.2	3218.9	3155.3	3145.0	3130.1	3161.8
15°	3642.4	3673.2	3660.1	3596.6	3561.0	3447.0	3350.7	3272.2	3262.8	3248.8	3247.9
17.5°	3864.9	3895.7	3871.4	3824.7	3777.9	3642.4	3538.6	3437.6	3413.3	3401.2	3357.2
20°	4102.4	4151.0	4146.3	4108.0	4051.9	3892.9	3746.2	3632.1	3605.9	3583.5	3490.9
22.5°	4347.3	4410.9	4396.8	4376.3	4352.9	4174.3	4003.3	3871.4	3851.8	3804.1	3658.3
25°	4618.4	4662.4	4652.1	4662.4	4646.5	4488.5	4301.5	4140.7	4114.5	4069.6	3846.2
27.5°	4881.1	4926.9	4944.7	4923.2	4933.5	4820.4	4598.8	4454.8	4429.6	4347.3	4072.4
30°	5118.6	5175.6	5200.9	5210.2	5244.8	5127.9	4964.3	4789.5	4781.1	4697.0	4370.7
32.5°	5308.4	5372.0	5433.7	5473.9	5529.0	5477.6	5314.9	5209.3	5210.2	5134.5	4818.5
35°	5445.8	5518.7	5608.5	5715.1	5831.0	5809.5	5713.2	5715.1	5730.0	5755.3	5389.7
37.5°	5598.2	5657.1	5762.7	5911.4	6088.1	6133.0	6119.9	6268.5	6341.4	6386.3	5891.8
40°	5688.9	5748.7	5880.5	6080.6	6337.7	6445.2	6565.8	6826.7	6922.0	6875.3	6320.9
42.5°	5588.9	5642.1	5871.2	6217.1	6542.5	6786.5	7002.4	7383.9	7453.0	7300.7	6682.7
45°	5458.9	5528.1	5769.3	6254.5	6723.8	7121.2	7456.8	7869.1	7920.5	7704.5	7002.4
47.5°	5352.3	5413.1	5694.5	6214.3	6891.2	7464.3	7856.0	8327.2	8340.3	8073.8	7333.4
50°	5215.8	5289.7	5583.2	6164.8	6992.1	7768.1	8221.5	8754.4	8783.4	8456.2	7613.9
52.5°	5072.8	5144.8	5448.6	6083.4	7065.1	8020.5	8601.1	9208.8	9211.6	8861.0	7913.0
55°	4861.5	4938.2	5274.7	5965.6	7087.5	8187.9	8982.5	9672.5	9701.5	9271.4	8184.1
57.5°	4638.1	4703.5	5065.3	5782.4	7004.3	8345.9	9374.3	10187.6	10267.1	9734.2	8416.9
60°	4341.7	4407.1	4789.5	5542.1	6827.6	8523.5	9823.0	10808.4	10816.8	10109.1	8586.2
62.5°	4022.9	4079.9	4431.4	5165.3	6553.7	8591.8	10208.2	11304.8	11303.9	10442.9	8670.3
65°	3644.3	3667.6	4025.7	4702.6	6128.3	8491.7	10378.4	11632.1	11600.3	10683.1	8642.2
67.5°	3195.5	3220.7	3491.9	4127.6	5511.3	8100.9	10302.6	11790.1	11821.8	10897.2	8520.7
70°	2627.1	2657.0	2893.5	3430.2	4725.0	7477.4	10125.0	11858.3	11885.4	10811.2	8145.8
72.5°	1939.0	1979.2	2124.1	2553.2	3586.3	6282.5	9302.3	11111.3	11126.3	10093.2	7365.2
75°	1204.2	1278.0	1414.5	1696.8	2327.0	4406.2	7951.4	9933.3	9839.9	9003.1	6094.6
77.5°	481.5	493.6	561.9	794.7	1135.0	2294.3	5763.7	7896.2	8074.8	7203.4	4359.5
80°	280.5	278.6	294.5	370.2	487.1	784.4	2241.9	4429.6	4937.2	3956.5	1961.4
82.5°	226.2	217.8	217.8	237.5	233.7	330.0	734.8	1293.9	1419.2	1259.3	558.1
85°	118.7	115.9	94.4	116.9	116.9	164.5	282.3	366.5	387.0	337.5	209.4
87.5°	29.9	29.9	29.9	36.5	29.0	34.6	47.7	58.0	59.8	48.6	30.9
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°	2906.6	2906.6	2906.6	2906.6	2906.6	2906.6	2906.6	2906.6	2906.6	2906.6	2906.6
2.5°	2928.1	2936.5	2969.3	2964.6	2970.2	2970.2	2979.5	2989.8	3020.7	3002.9	2995.4
5°	2961.8	2978.6	3019.7	3034.7	3057.1	3059.9	3078.6	3085.2	3118.8	3100.1	3100.1
7.5°	3026.3	3045.9	3084.2	3089.9	3100.1	3082.4	3087.1	3066.5	3088.9	3066.5	3067.4
10°	3099.2	3112.3	3138.5	3101.1	3085.2	3043.1	3033.8	2983.3	3001.0	2972.1	2964.6
12.5°	3169.3	3164.6	3145.0	3078.6	3034.7	2965.5	2936.5	2868.3	2864.5	2826.2	2818.7
15°	3235.7	3203.0	3139.4	3036.6	2961.8	2865.5	2796.3	2721.5	2695.3	2651.4	2647.6
17.5°	3317.0	3260.9	3147.8	2996.4	2873.9	2733.7	2635.5	2551.4	2497.1	2456.9	2456.0
20°	3416.1	3330.1	3151.6	2950.6	2783.2	2603.7	2466.3	2359.7	2282.1	2231.6	2230.7
22.5°	3540.5	3423.6	3186.1	2898.2	2667.3	2446.6	2275.6	2091.4	1984.8	1882.0	1863.3
25°	3686.3	3518.0	3216.1	2871.1	2553.2	2283.0	2028.7	1759.5	1594.0	1511.7	1480.9
27.5°	3891.1	3675.1	3260.0	2819.7	2445.7	2081.1	1710.9	1417.3	1218.2	1148.1	1148.1
30°	4127.6	3873.3	3342.3	2788.8	2296.1	1797.8	1362.2	1047.1	862.0	756.3	753.5
32.5°	4488.5	4109.8	3417.1	2722.4	2114.8	1489.3	985.4	675.0	526.4	460.9	457.2
35°	5007.3	4560.5	3537.7	2656.1	1852.0	1108.8	625.5	387.0	300.1	262.7	260.8
37.5°	5506.6	4989.6	3797.6	2524.2	1479.0	696.5	346.8	223.4	183.2	178.6	176.7
40°	5858.1	5359.8	3980.8	2323.2	1050.8	369.3	201.0	161.7	158.9	157.1	156.1
42.5°	6241.4	5634.7	4110.8	2067.1	623.6	214.1	163.6	145.8	141.2	139.3	139.3
45°	6552.7	5899.2	4135.1	1700.6	314.1	176.7	149.6	132.8	127.1	130.9	131.8
47.5°	6839.8	6148.9	4052.8	1278.9	212.2	164.5	140.2	123.4	119.7	129.0	129.0
50°	7084.7	6360.1	3864.0	954.5	199.1	155.2	130.9	114.1	113.1	121.5	122.5
52.5°	7328.7	6530.3	3566.7	720.8	188.9	144.9	121.5	105.6	102.8	108.4	109.4
55°	7522.2	6591.1	3346.0	536.6	181.4	135.6	113.1	97.2	90.7	89.8	91.6
57.5°	7628.8	6537.8	3130.1	394.5	173.0	127.1	104.7	86.0	75.7	75.7	75.7
60°	7630.7	6473.3	2899.1	312.3	163.6	117.8	95.4	73.9	63.6	61.7	61.7
62.5°	7610.1	6358.3	2563.5	271.1	153.3	110.3	83.2	62.6	55.2	52.4	52.4
65°	7519.4	6141.4	2156.8	231.9	141.2	104.7	71.1	56.1	49.5	45.8	45.8
67.5°	7237.1	5734.7	1660.4	201.9	130.0	92.6	64.5	50.5	43.9	40.2	39.3
70°	6719.1	5077.5	1095.7	172.0	118.7	82.3	58.9	45.8	39.3	35.5	34.6
72.5°	5850.6	4132.3	550.7	145.8	101.9	75.7	53.3	40.2	33.7	29.9	29.9
75°	4584.8	2868.3	300.1	115.9	80.4	66.4	46.7	33.7	29.0	26.2	26.2
77.5°	2811.3	1422.0	204.7	89.8	60.8	54.2	37.4	28.0	25.2	24.3	24.3
80°	1025.6	465.6	137.4	63.6	45.8	42.1	29.9	24.3	23.4	23.4	23.4
82.5°	370.2	236.5	92.6	43.0	29.0	31.8	24.3	20.6	19.6	20.6	21.5
85°	152.4	103.8	33.7	24.3	15.9	16.8	15.0	14.0	15.0	15.9	15.9
87.5°	23.4	20.6	12.2	12.2	9.3	8.4	6.5	7.5	9.3	11.2	11.2
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)