

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: P509878

Luminaire Tested: **VERD-M-CA3-160-727-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509878
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-CA3-160-727-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1000mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18442 lumens
Efficiency: N/A
Efficacy: 113.3 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

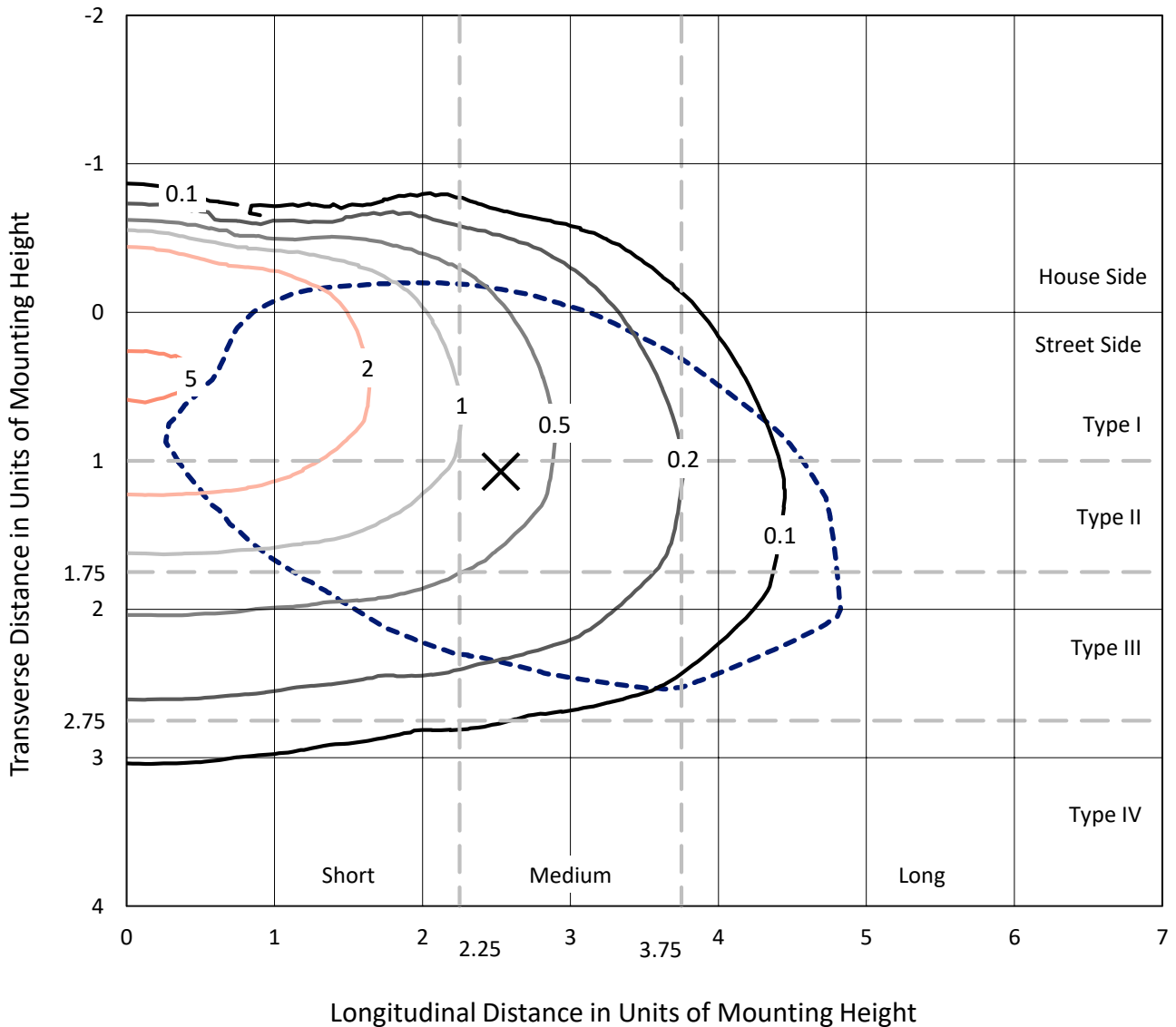
Input Watts (W): 162.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509878
 CATALOG NUMBER: VERD-M-CA3-160-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

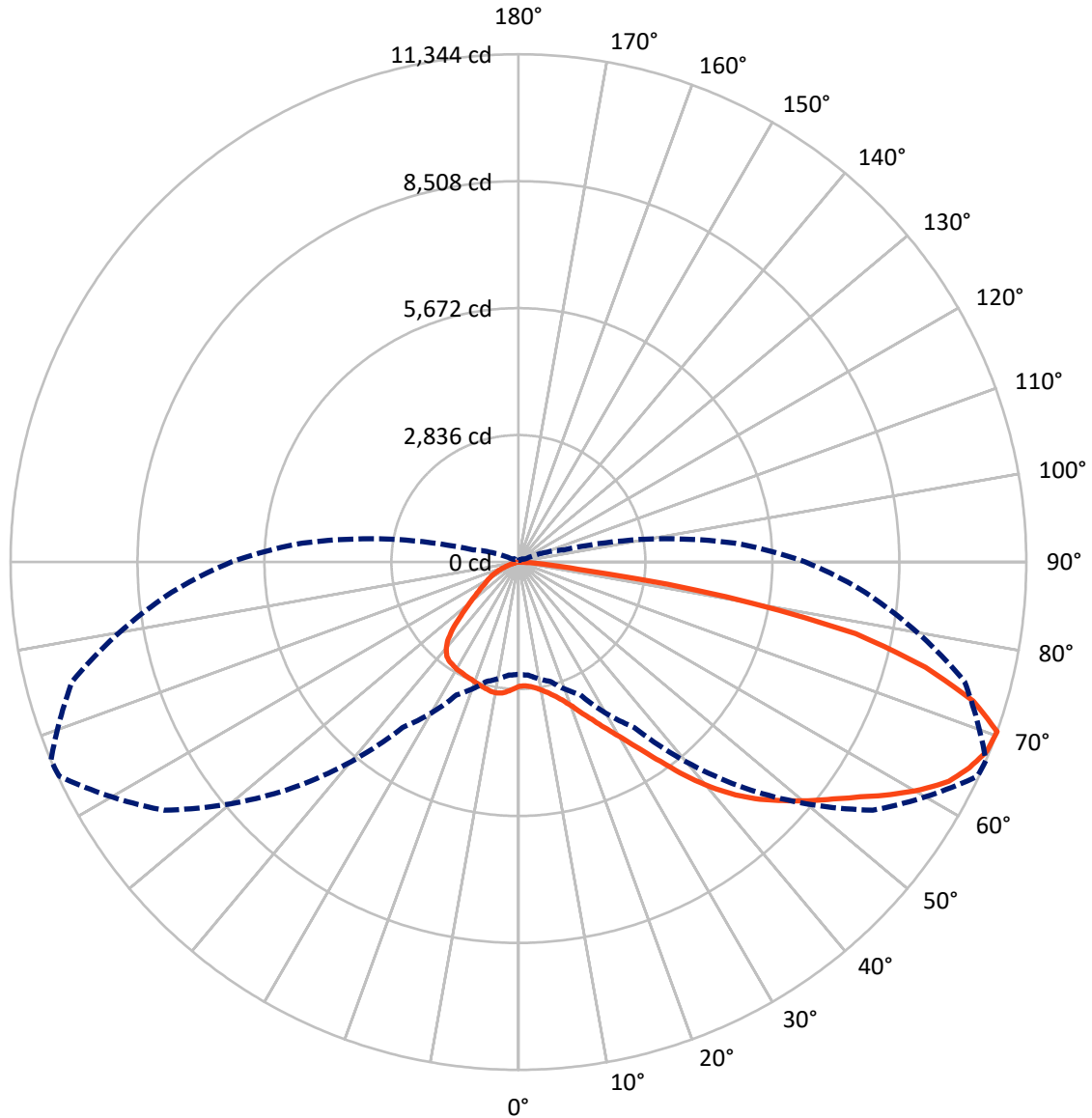
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P509878
CATALOG NUMBER: VERD-M-CA3-160-727-U-T3-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: VERD-M-CA3-160-727-U-T3-HSS

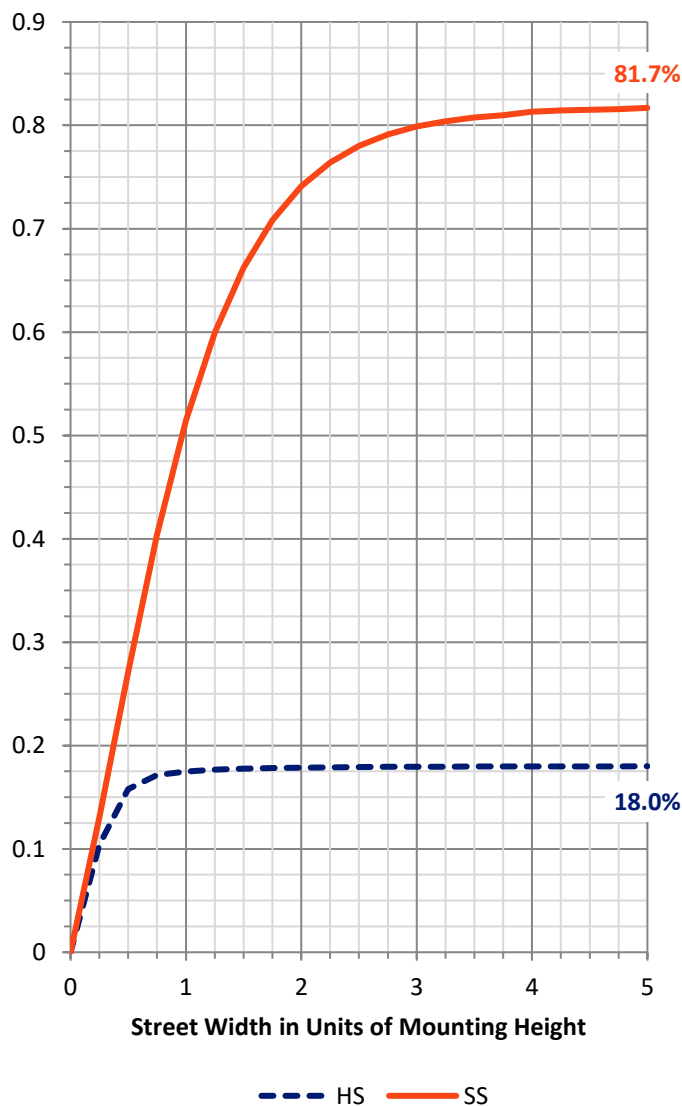
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3360.3	0.0	3360.3
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	15081.7	0.0	15081.7
	% Fixture	81.8	0.0	81.8
Total	Lumens	18442.0	0.0	18442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.5
10°-20°	862.3	4.7
20°-30°	1496.1	8.1
30°-40°	2222.0	12.0
40°-50°	3048.4	16.5
50°-60°	3743.6	20.3
60°-70°	4013.6	21.8
70°-80°	2547.9	13.8
80°-90°	231.9	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°	18442.0	100.0
0°-180°	18442.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509878

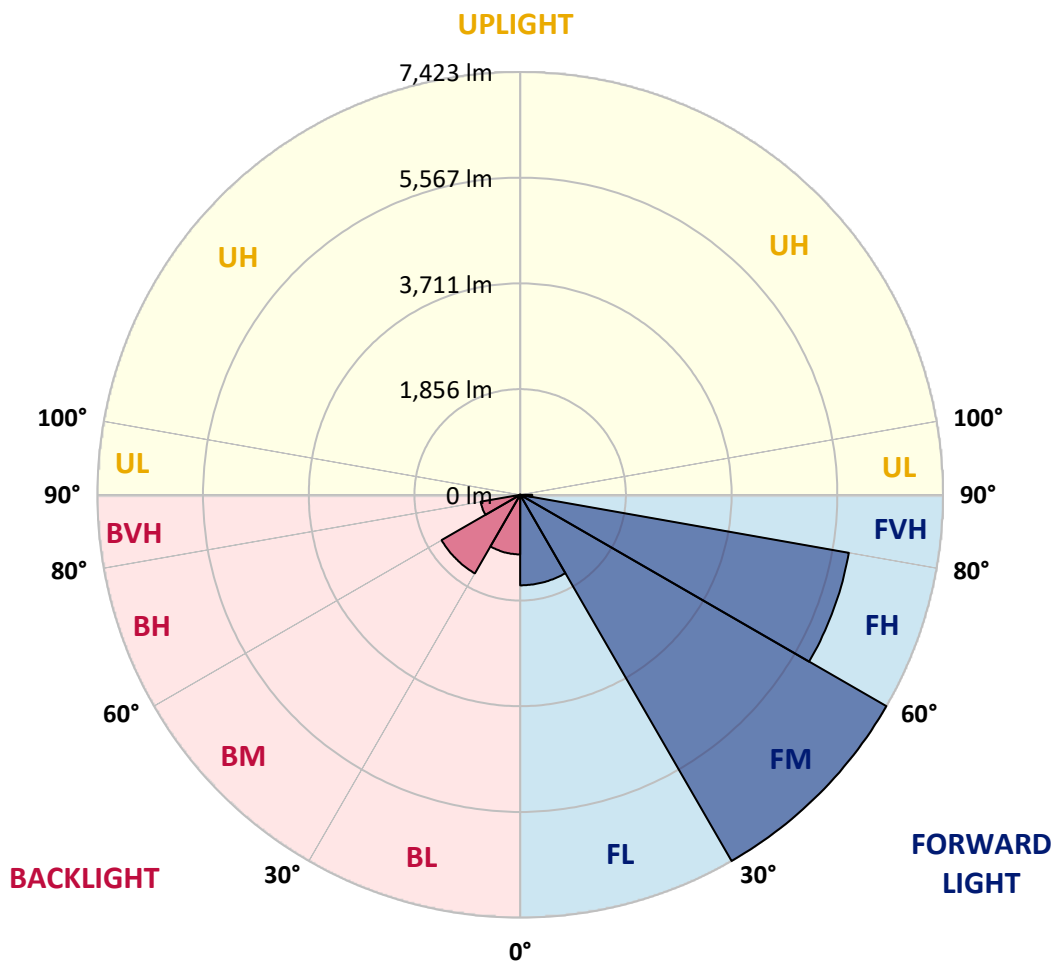
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1588.9	8.6			
FM	(30°-60°)	7422.7	40.2			
FH	(60°-80°)	5858.6	31.8			G3/7500
FVH	(80°-90°)	211.5	1.1			G2/225
BL	(0°-30°)	1045.8	5.7	B3/2500		
BM	(30°-60°)	1591.3	8.6	B2/2500		
BH	(60°-80°)	702.8	3.8	B2/1000		G2/1000
BVH	(80°-90°)	20.4	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





REPORT NUMBER: P509878

CATALOG NUMBER: VERD-M-CA3-160-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1
2.5°	2749.1	2775.0	2759.8	2758.0	2775.9	2758.9	2770.5	2767.8	2766.1	2768.7	2787.5
5°	2821.4	2851.7	2831.2	2825.0	2834.8	2804.4	2801.8	2795.5	2793.7	2794.6	2821.4
7.5°	2922.2	2957.9	2949.9	2933.8	2928.5	2878.5	2869.6	2847.3	2840.1	2841.9	2868.7
10°	3081.0	3116.7	3100.7	3065.0	3042.7	2985.6	2953.4	2924.9	2910.6	2912.4	2940.9
12.5°	3284.5	3318.4	3291.6	3226.5	3214.0	3122.1	3072.1	3011.4	3001.6	2987.3	3017.7
15°	3476.3	3505.8	3493.3	3432.6	3398.7	3289.8	3197.9	3123.0	3114.0	3100.7	3099.8
17.5°	3688.7	3718.1	3694.9	3650.3	3605.7	3476.3	3377.3	3280.9	3257.7	3246.1	3204.2
20°	3915.3	3961.7	3957.3	3920.7	3867.1	3715.4	3575.4	3466.5	3441.5	3420.1	3331.8
22.5°	4149.1	4209.8	4196.4	4176.8	4154.4	3984.0	3820.7	3694.9	3676.2	3630.7	3491.5
25°	4407.9	4449.8	4440.0	4449.8	4434.6	4283.8	4105.4	3951.9	3926.9	3884.1	3670.8
27.5°	4658.6	4702.3	4719.3	4698.7	4708.5	4600.6	4389.1	4251.7	4227.6	4149.1	3886.8
30°	4885.2	4939.6	4963.7	4972.7	5005.7	4894.1	4738.0	4571.1	4563.1	4482.8	4171.4
32.5°	5066.4	5127.0	5185.9	5224.3	5276.9	5227.9	5072.6	4971.8	4972.7	4900.4	4598.8
35°	5197.5	5267.1	5352.8	5454.5	5565.1	5544.6	5452.7	5454.5	5468.8	5492.9	5144.0
37.5°	5343.0	5399.2	5500.0	5641.9	5810.5	5853.3	5840.9	5982.7	6052.3	6095.1	5623.1
40°	5429.5	5486.6	5612.4	5803.4	6048.8	6151.4	6266.5	6515.4	6606.4	6561.8	6032.7
42.5°	5334.0	5384.9	5603.5	5933.6	6244.2	6477.0	6683.2	7047.2	7113.2	6967.8	6378.0
45°	5210.0	5276.0	5506.2	5969.3	6417.3	6796.5	7116.8	7510.3	7559.4	7353.3	6683.2
47.5°	5108.3	5166.3	5434.9	5931.0	6577.0	7123.9	7497.8	7947.5	7960.0	7705.7	6999.0
50°	4978.0	5048.5	5328.7	5883.7	6673.3	7413.9	7846.7	8355.3	8382.9	8070.7	7266.7
52.5°	4841.5	4910.2	5200.2	5806.1	6742.9	7654.9	8209.0	8788.9	8791.6	8457.0	7552.2
55°	4639.8	4713.0	5034.2	5693.6	6764.4	7814.6	8573.0	9231.5	9259.2	8848.7	7811.0
57.5°	4426.6	4489.0	4834.4	5518.7	6684.9	7965.4	8946.9	9723.2	9799.0	9290.4	8033.2
60°	4143.7	4206.2	4571.1	5289.4	6516.3	8134.9	9375.2	10315.6	10323.7	9648.2	8194.7
62.5°	3839.5	3893.9	4229.4	4929.8	6254.9	8200.0	9742.8	10789.4	10788.5	9966.7	8275.0
65°	3478.1	3500.4	3842.1	4488.2	5848.9	8104.6	9905.2	11101.7	11071.4	10196.1	8248.2
67.5°	3049.8	3073.9	3332.7	3939.4	5260.0	7731.6	9832.9	11252.5	11282.9	10400.4	8132.2
70°	2507.3	2535.9	2761.6	3273.8	4509.6	7136.4	9663.4	11317.7	11343.5	10318.3	7774.4
72.5°	1850.6	1889.0	2027.3	2436.8	3422.8	5996.1	8878.2	10604.7	10619.0	9633.0	7029.4
75°	1149.3	1219.7	1350.0	1619.5	2220.9	4205.3	7588.8	9480.5	9391.2	8592.6	5816.8
77.5°	459.5	471.1	536.3	758.4	1083.2	2189.6	5500.9	7536.2	7706.6	6875.0	4160.7
80°	267.7	265.9	281.1	353.3	464.9	748.6	2139.7	4227.6	4712.1	3776.1	1872.0
82.5°	215.9	207.9	207.9	226.6	223.1	315.0	701.3	1234.9	1354.5	1201.9	532.7
85°	113.3	110.6	90.1	111.5	111.5	157.0	269.5	349.8	369.4	322.1	199.9
87.5°	28.6	28.6	28.6	34.8	27.7	33.0	45.5	55.3	57.1	46.4	29.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509878

CATALOG NUMBER: VERD-M-CA3-160-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1
2.5°	2794.6	2802.6	2833.9	2829.4	2834.8	2834.8	2843.7	2853.5	2882.9	2866.0	2858.9
5°	2826.7	2842.8	2882.1	2896.3	2917.7	2920.4	2938.3	2944.5	2976.6	2958.8	2958.8
7.5°	2888.3	2907.0	2943.6	2949.0	2958.8	2941.8	2946.3	2926.7	2948.1	2926.7	2927.6
10°	2957.9	2970.4	2995.4	2959.7	2944.5	2904.4	2895.4	2847.3	2864.2	2836.6	2829.4
12.5°	3024.8	3020.4	3001.6	2938.3	2896.3	2830.3	2802.6	2737.5	2733.9	2697.4	2690.2
15°	3088.2	3056.9	2996.3	2898.1	2826.7	2734.8	2668.8	2597.4	2572.4	2530.5	2526.9
17.5°	3165.8	3112.3	3004.3	2859.8	2742.9	2609.0	2515.3	2435.0	2383.3	2344.9	2344.0
20°	3260.4	3178.3	3007.9	2816.0	2656.3	2485.0	2353.8	2252.1	2178.0	2129.9	2129.0
22.5°	3379.1	3267.5	3040.9	2766.1	2545.7	2335.1	2171.8	1996.0	1894.3	1796.2	1778.3
25°	3518.3	3357.6	3069.4	2740.2	2436.8	2178.9	1936.2	1679.3	1521.3	1442.8	1413.4
27.5°	3713.7	3507.5	3111.4	2691.1	2334.2	1986.2	1632.9	1352.7	1162.6	1095.7	1095.7
30°	3939.4	3696.7	3189.9	2661.7	2191.4	1715.9	1300.0	999.4	822.7	721.9	719.2
32.5°	4283.8	3922.5	3261.3	2598.3	2018.3	1421.4	940.5	644.2	502.4	439.9	436.3
35°	4779.0	4352.5	3376.4	2535.0	1767.6	1058.2	596.9	369.4	286.4	250.7	248.9
37.5°	5255.5	4762.1	3624.4	2409.1	1411.6	664.7	331.0	213.3	174.9	170.4	168.6
40°	5591.0	5115.4	3799.3	2217.3	1002.9	352.4	191.8	154.4	151.7	149.9	149.0
42.5°	5956.8	5377.8	3923.3	1972.8	595.1	204.3	156.1	139.2	134.7	132.9	132.9
45°	6254.0	5630.3	3946.5	1623.1	299.8	168.6	142.8	126.7	121.3	124.9	125.8
47.5°	6527.9	5868.5	3868.0	1220.6	202.5	157.0	133.8	117.8	114.2	123.1	123.1
50°	6761.7	6070.2	3687.8	911.0	190.1	148.1	124.9	108.9	108.0	116.0	116.9
52.5°	6994.6	6232.6	3404.0	687.9	180.2	138.3	116.0	100.8	98.2	103.5	104.4
55°	7179.3	6290.6	3193.5	512.2	173.1	129.4	108.0	92.8	86.6	85.7	87.4
57.5°	7281.0	6239.7	2987.3	376.5	165.1	121.3	99.9	82.1	72.3	72.3	72.3
60°	7282.8	6178.1	2767.0	298.0	156.1	112.4	91.0	70.5	60.7	58.9	58.9
62.5°	7263.1	6068.4	2446.6	258.8	146.3	105.3	79.4	59.8	52.6	50.0	50.0
65°	7176.6	5861.4	2058.5	221.3	134.7	99.9	67.8	53.5	47.3	43.7	43.7
67.5°	6907.1	5473.2	1584.7	192.7	124.0	88.3	61.6	48.2	41.9	38.4	37.5
70°	6412.8	4846.0	1045.7	164.2	113.3	78.5	56.2	43.7	37.5	33.9	33.0
72.5°	5583.9	3943.9	525.6	139.2	97.3	72.3	50.9	38.4	32.1	28.6	28.6
75°	4375.7	2737.5	286.4	110.6	76.7	63.4	44.6	32.1	27.7	25.0	25.0
77.5°	2683.1	1357.2	195.4	85.7	58.0	51.8	35.7	26.8	24.1	23.2	23.2
80°	978.8	444.4	131.2	60.7	43.7	40.2	28.6	23.2	22.3	22.3	22.3
82.5°	353.3	225.7	88.3	41.0	27.7	30.3	23.2	19.6	18.7	19.6	20.5
85°	145.4	99.0	32.1	23.2	15.2	16.1	14.3	13.4	14.3	15.2	15.2
87.5°	22.3	19.6	11.6	11.6	8.9	8.0	6.2	7.1	8.9	10.7	10.7
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)