

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: P509838

Luminaire Tested: **VERD-M-CA3-150-730-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509838
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-CA3-150-730-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 940mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20294 lumens
Efficiency: N/A
Efficacy: 132.6 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

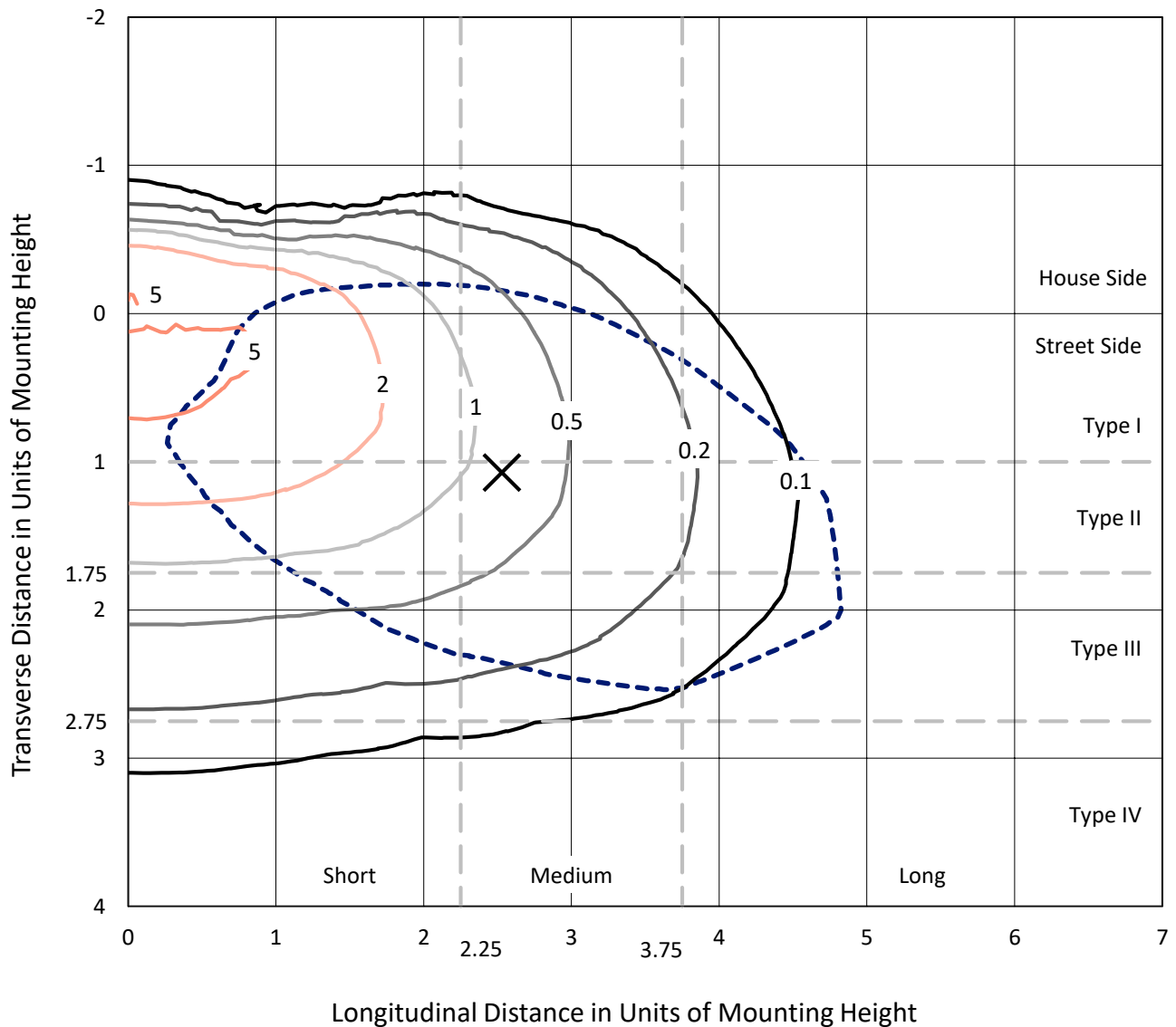
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

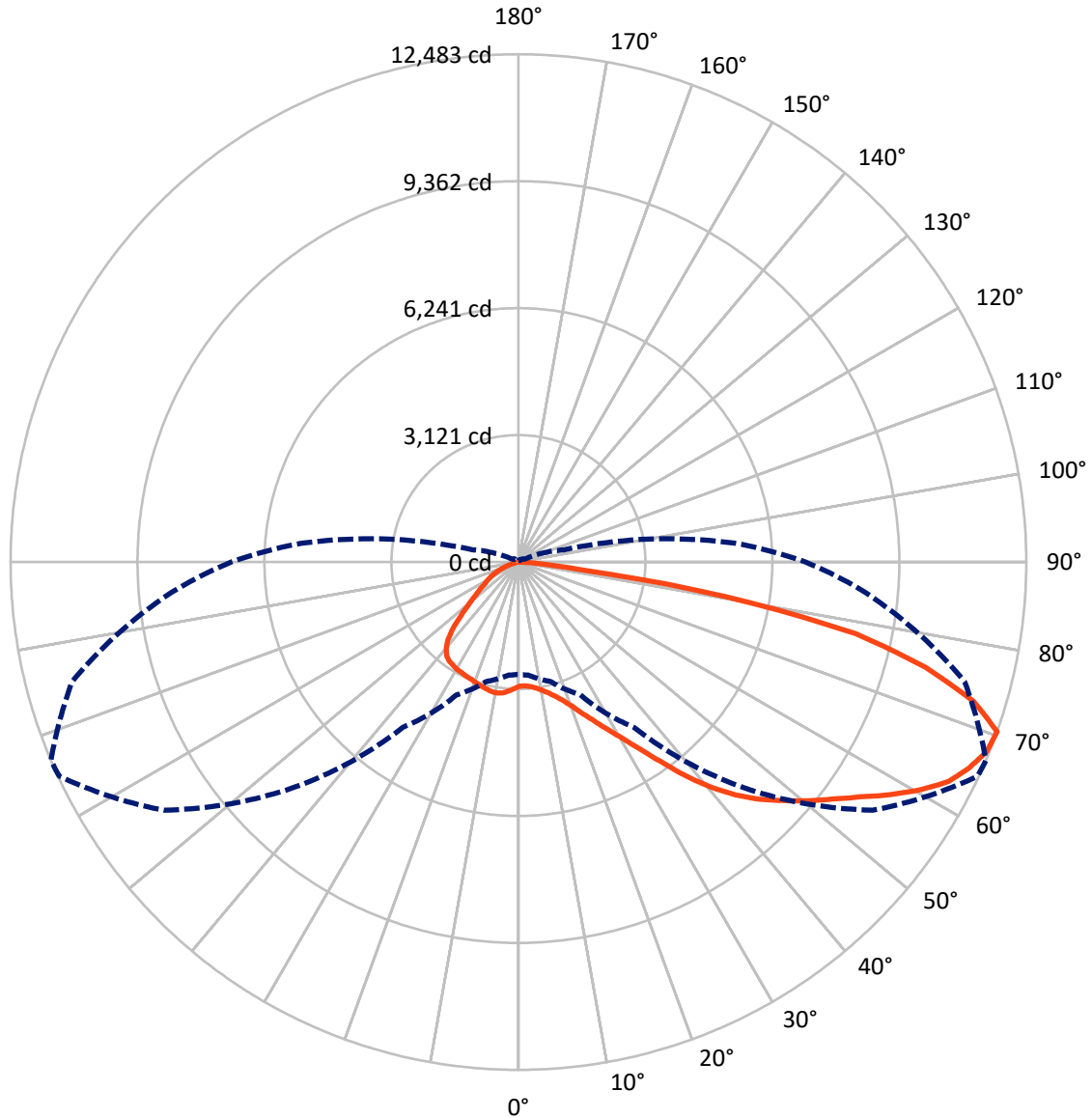
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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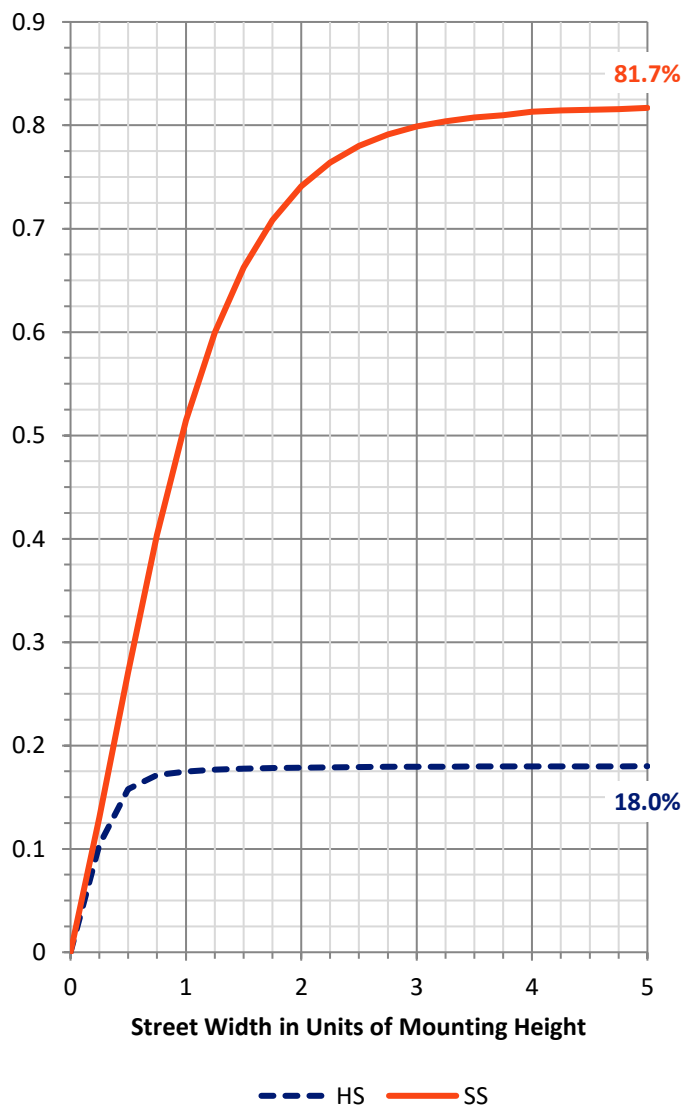
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3697.7	0.0	3697.7
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	16596.3	0.0	16596.3
	% Fixture	81.8	0.0	81.8
Total	Lumens	20294.0	0.0	20294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.1	1.5
10°-20°	948.9	4.7
20°-30°	1646.3	8.1
30°-40°	2445.1	12.0
40°-50°	3354.5	16.5
50°-60°	4119.6	20.3
60°-70°	4416.6	21.8
70°-80°	2803.7	13.8
80°-90°	255.1	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°	20294.0	100.0
0°-180°	20294.0	100.0

Coefficient of Utilization



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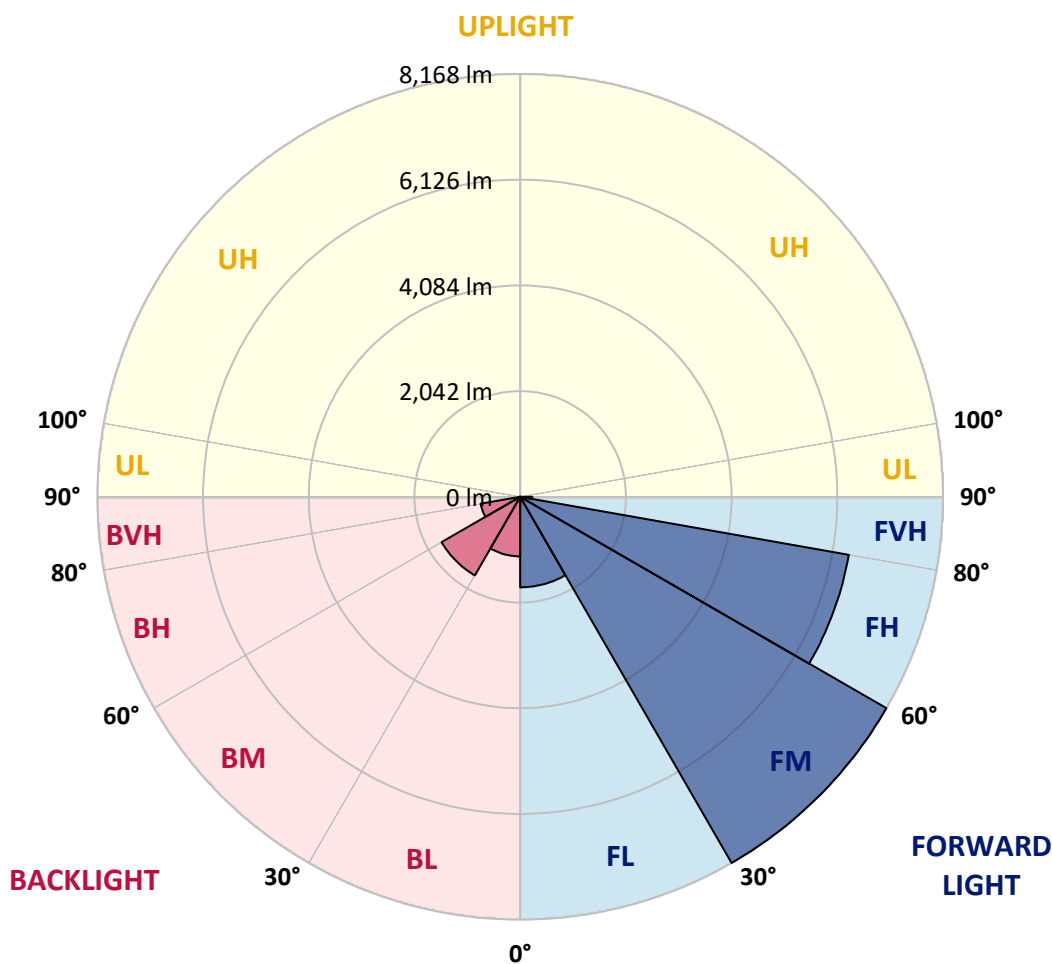
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1748.5	8.6			
FM	(30°-60°)	8168.1	40.2			
FH	(60°-80°)	6446.9	31.8			G3/7500
FVH	(80°-90°)	232.7	1.1			G3/500
BL	(0°-30°)	1150.8	5.7	B3/2500		
BM	(30°-60°)	1751.1	8.6	B2/2500		
BH	(60°-80°)	773.4	3.8	B2/1000		G2/1000
BVH	(80°-90°)	22.4	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°	3052.7	3052.7	3052.7	3052.7	3052.7	3052.7	3052.7	3052.7	3052.7	3052.7	3052.7
2.5°	3025.2	3053.7	3037.0	3035.0	3054.6	3036.0	3048.7	3045.8	3043.8	3046.8	3067.4
5°	3104.7	3138.1	3115.5	3108.6	3119.4	3086.1	3083.1	3076.2	3074.3	3075.3	3104.7
7.5°	3215.7	3254.9	3246.1	3228.4	3222.5	3167.6	3157.7	3133.2	3125.3	3127.3	3156.8
10°	3390.4	3429.7	3412.0	3372.8	3348.2	3285.4	3250.0	3218.6	3202.9	3204.9	3236.3
12.5°	3614.3	3651.6	3622.2	3550.5	3536.7	3435.6	3380.6	3313.9	3303.1	3287.3	3320.7
15°	3825.4	3857.8	3844.1	3777.3	3740.0	3620.2	3519.1	3436.6	3426.8	3412.0	3411.1
17.5°	4059.1	4091.5	4066.0	4016.9	3967.8	3825.4	3716.4	3610.4	3584.9	3572.1	3525.9
20°	4308.5	4359.6	4354.7	4314.4	4255.5	4088.6	3934.4	3814.6	3787.1	3763.6	3666.4
22.5°	4565.8	4632.5	4617.8	4596.2	4571.6	4384.1	4204.4	4066.0	4045.4	3995.3	3842.1
25°	4850.5	4896.7	4885.8	4896.7	4880.0	4714.0	4517.6	4348.8	4321.3	4274.1	4039.5
27.5°	5126.4	5174.5	5193.2	5170.6	5181.4	5062.6	4829.9	4678.7	4652.2	4565.8	4277.1
30°	5375.8	5435.7	5462.2	5472.0	5508.4	5385.6	5213.8	5030.2	5021.3	4933.0	4590.3
32.5°	5575.1	5641.9	5706.7	5748.9	5806.9	5752.9	5582.0	5471.1	5472.0	5392.5	5060.6
35°	5719.5	5796.1	5890.3	6002.3	6124.0	6101.4	6000.3	6002.3	6018.0	6044.5	5660.6
37.5°	5879.5	5941.4	6052.3	6208.4	6394.0	6441.2	6427.4	6583.5	6660.1	6707.2	6187.8
40°	5974.8	6037.6	6176.0	6386.2	6656.2	6769.1	6895.8	7169.7	7269.9	7220.8	6638.5
42.5°	5869.7	5925.7	6166.2	6529.5	6871.2	7127.5	7354.3	7754.9	7827.6	7667.5	7018.5
45°	5733.2	5805.9	6059.2	6568.8	7061.7	7479.0	7831.5	8264.5	8318.5	8091.7	7354.3
47.5°	5621.3	5685.1	5980.6	6526.6	7237.5	7839.4	8250.8	8745.6	8759.4	8479.5	7701.9
50°	5477.9	5555.5	5863.8	6474.5	7343.5	8158.5	8634.7	9194.4	9224.8	8881.1	7996.5
52.5°	5327.7	5403.3	5722.4	6389.1	7420.1	8423.6	9033.3	9671.5	9674.5	9306.3	8310.7
55°	5105.8	5186.3	5539.8	6265.4	7443.7	8599.3	9433.9	10158.6	10189.0	9737.3	8595.4
57.5°	4871.1	4939.9	5319.8	6072.9	7356.3	8765.3	9845.3	10699.6	10783.0	10223.4	8839.9
60°	4559.9	4628.6	5030.2	5820.6	7170.7	8951.8	10316.6	11351.5	11360.4	10617.1	9017.6
62.5°	4225.0	4284.9	4654.1	5424.9	6883.0	9023.5	10721.2	11872.9	11871.9	10967.6	9106.0
65°	3827.4	3851.9	4228.0	4938.9	6436.2	8918.4	10899.9	12216.6	12183.2	11220.0	9076.5
67.5°	3356.1	3382.6	3667.3	4335.0	5788.2	8508.0	10820.3	12382.5	12415.9	11444.8	8948.9
70°	2759.1	2790.5	3038.9	3602.5	4962.4	7853.1	10633.8	12454.2	12482.7	11354.5	8555.1
72.5°	2036.4	2078.6	2230.8	2681.5	3766.5	6598.3	9769.7	11669.7	11685.4	10600.4	7735.3
75°	1264.7	1342.2	1485.6	1782.1	2443.9	4627.6	8350.9	10432.5	10334.3	9455.5	6400.9
77.5°	505.7	518.4	590.1	834.6	1192.0	2409.5	6053.3	8293.0	8480.5	7565.4	4578.5
80°	294.6	292.6	309.3	388.8	511.6	823.8	2354.6	4652.2	5185.3	4155.3	2060.0
82.5°	237.6	228.8	228.8	249.4	245.5	346.6	771.8	1358.9	1490.5	1322.6	586.2
85°	124.7	121.8	99.2	122.7	122.7	172.8	296.5	384.9	406.5	354.5	219.9
87.5°	31.4	31.4	31.4	38.3	30.4	36.3	50.1	60.9	62.8	51.1	32.4
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°	3052.7	3052.7	3052.7	3052.7	3052.7	3052.7	3052.7	3052.7	3052.7	3052.7	3052.7
2.5°	3075.3	3084.1	3118.5	3113.6	3119.4	3119.4	3129.3	3140.1	3172.5	3153.8	3146.0
5°	3110.6	3128.3	3171.5	3187.2	3210.8	3213.7	3233.3	3240.2	3275.6	3255.9	3255.9
7.5°	3178.4	3199.0	3239.2	3245.1	3255.9	3237.3	3242.2	3220.6	3244.1	3220.6	3221.6
10°	3254.9	3268.7	3296.2	3256.9	3240.2	3196.0	3186.2	3133.2	3151.8	3121.4	3113.6
12.5°	3328.6	3323.7	3303.1	3233.3	3187.2	3114.5	3084.1	3012.4	3008.5	2968.2	2960.4
15°	3398.3	3363.9	3297.2	3189.2	3110.6	3009.5	2936.8	2858.3	2830.8	2784.6	2780.7
17.5°	3483.7	3424.8	3306.0	3146.9	3018.3	2871.0	2767.9	2679.6	2622.6	2580.4	2579.4
20°	3587.8	3497.5	3309.9	3098.8	2923.1	2734.5	2590.2	2478.3	2396.8	2343.8	2342.8
22.5°	3718.4	3595.7	3346.3	3043.8	2801.3	2569.6	2389.9	2196.5	2084.5	1976.5	1956.9
25°	3871.6	3694.8	3377.7	3015.4	2681.5	2397.8	2130.7	1847.9	1674.1	1587.7	1555.3
27.5°	4086.6	3859.8	3423.8	2961.4	2568.6	2185.7	1796.8	1488.5	1279.4	1205.8	1205.8
30°	4335.0	4067.9	3510.2	2929.0	2411.5	1888.2	1430.6	1099.7	905.3	794.3	791.4
32.5°	4714.0	4316.4	3588.8	2859.2	2221.0	1564.1	1034.9	708.9	552.8	484.1	480.1
35°	5259.0	4789.6	3715.4	2789.5	1945.1	1164.5	656.9	406.5	315.2	275.9	273.9
37.5°	5783.3	5240.3	3988.4	2651.1	1553.3	731.5	364.3	234.7	192.4	187.5	185.6
40°	6152.5	5629.1	4180.9	2440.0	1103.6	387.8	211.1	169.9	166.9	165.0	164.0
42.5°	6555.1	5917.8	4317.3	2170.9	654.9	224.9	171.8	153.2	148.3	146.3	146.3
45°	6882.0	6195.7	4342.9	1786.0	329.9	185.6	157.1	139.4	133.5	137.5	138.4
47.5°	7183.5	6457.8	4256.5	1343.2	222.9	172.8	147.3	129.6	125.7	135.5	135.5
50°	7440.7	6679.7	4058.1	1002.5	209.1	163.0	137.5	119.8	118.8	127.6	128.6
52.5°	7697.0	6858.5	3745.9	757.0	198.3	152.2	127.6	111.0	108.0	113.9	114.9
55°	7900.2	6922.3	3514.2	563.6	190.5	142.4	118.8	102.1	95.2	94.3	96.2
57.5°	8012.2	6866.3	3287.3	414.4	181.6	133.5	110.0	90.3	79.5	79.5	79.5
60°	8014.1	6798.6	3044.8	327.9	171.8	123.7	100.2	77.6	66.8	64.8	64.8
62.5°	7992.5	6677.8	2692.3	284.7	161.0	115.9	87.4	65.8	57.9	55.0	55.0
65°	7897.3	6450.0	2265.2	243.5	148.3	110.0	74.6	58.9	52.0	48.1	48.1
67.5°	7600.8	6022.9	1743.8	212.1	136.5	97.2	67.7	53.0	46.1	42.2	41.2
70°	7056.8	5332.6	1150.8	180.7	124.7	86.4	61.9	48.1	41.2	37.3	36.3
72.5°	6144.6	4339.9	578.3	153.2	107.0	79.5	56.0	42.2	35.3	31.4	31.4
75°	4815.2	3012.4	315.2	121.8	84.4	69.7	49.1	35.3	30.4	27.5	27.5
77.5°	2952.5	1493.4	215.0	94.3	63.8	56.9	39.3	29.5	26.5	25.5	25.5
80°	1077.1	489.0	144.3	66.8	48.1	44.2	31.4	25.5	24.5	24.5	24.5
82.5°	388.8	248.4	97.2	45.2	30.4	33.4	25.5	21.6	20.6	21.6	22.6
85°	160.0	109.0	35.3	25.5	16.7	17.7	15.7	14.7	15.7	16.7	16.7
87.5°	24.5	21.6	12.8	12.8	9.8	8.8	6.9	7.9	9.8	11.8	11.8
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)