

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: P510272

Luminaire Tested: **VERD-M-CA4-240-730-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-240-730-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 1090mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29531 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

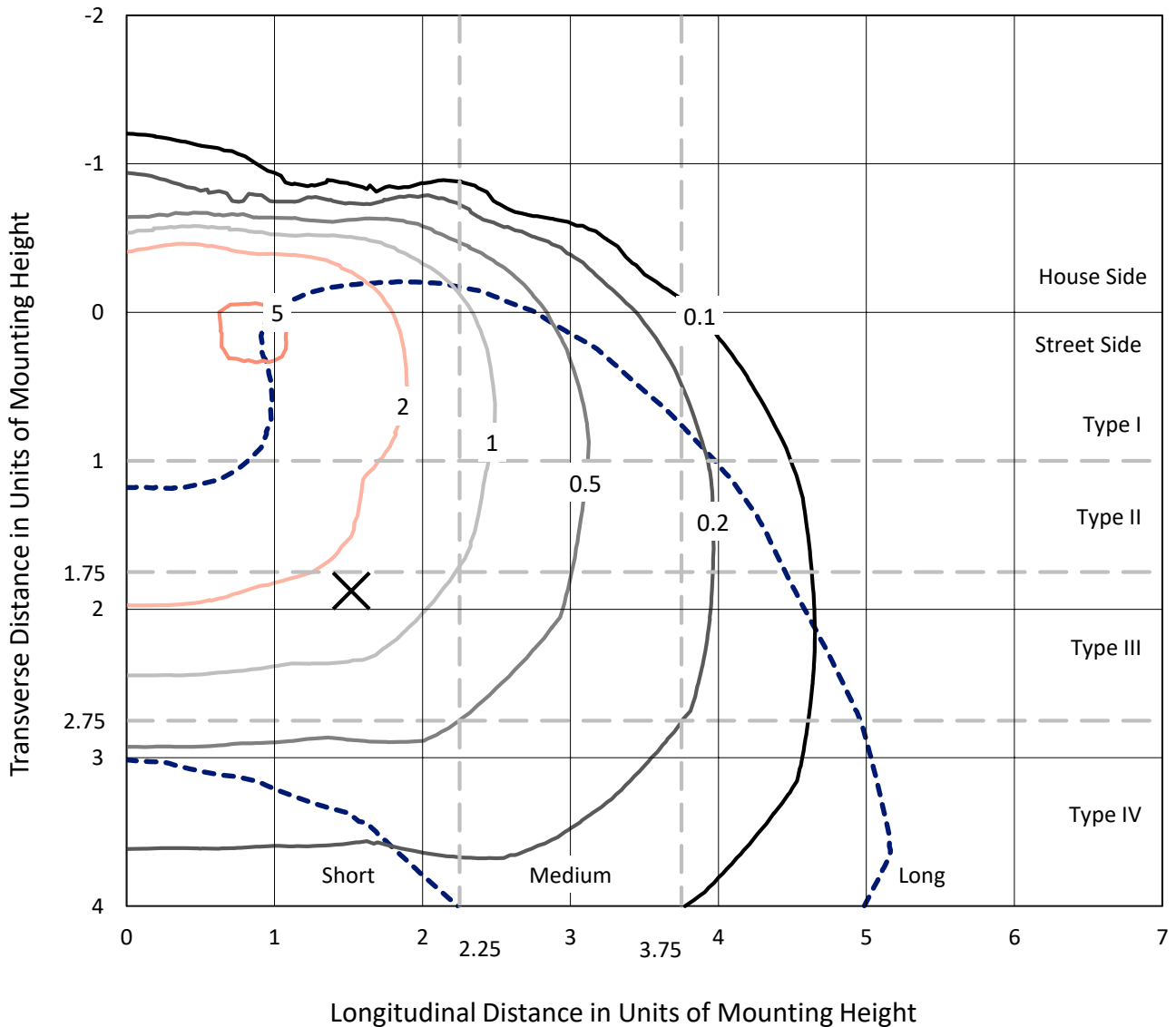
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

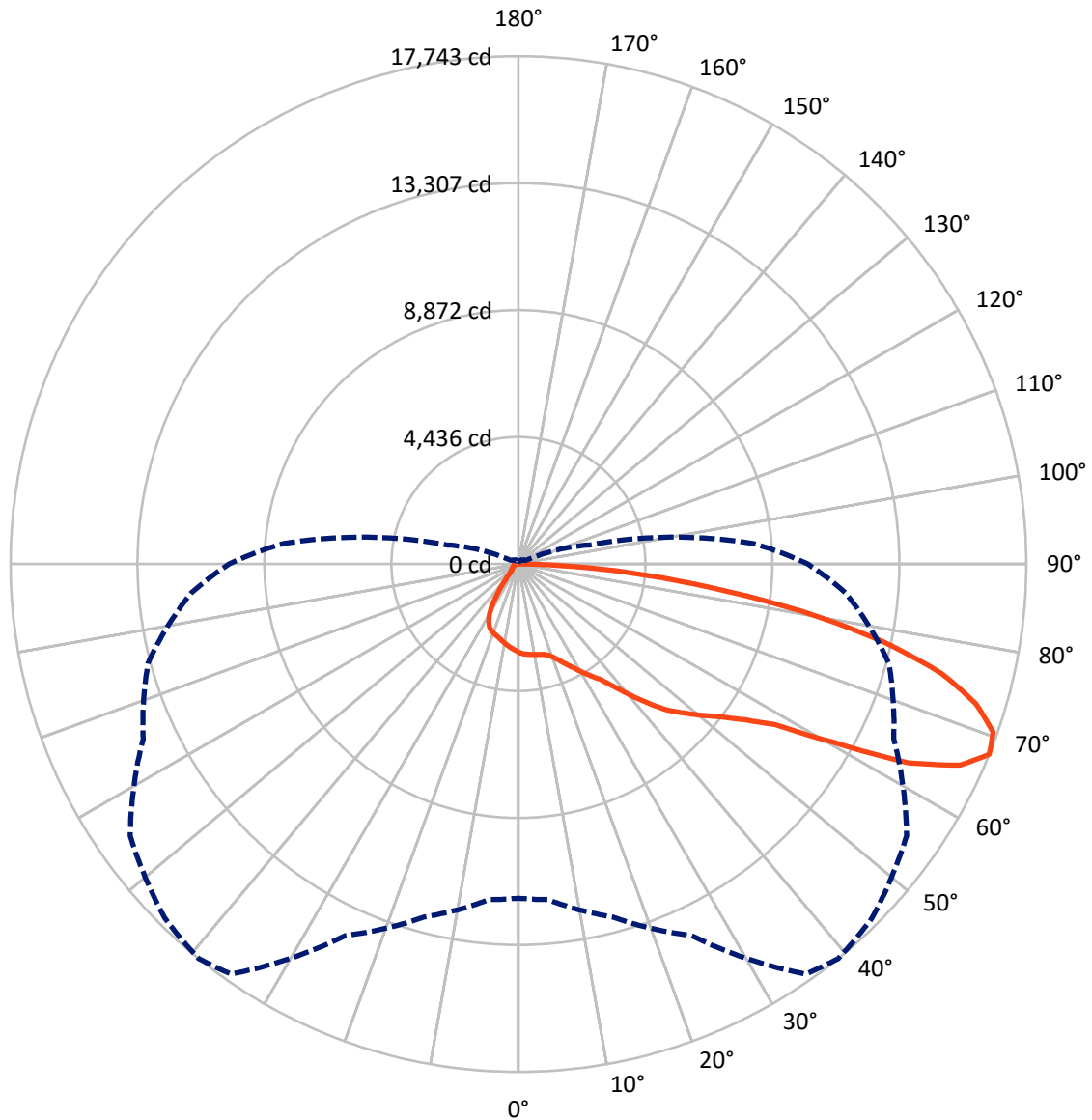
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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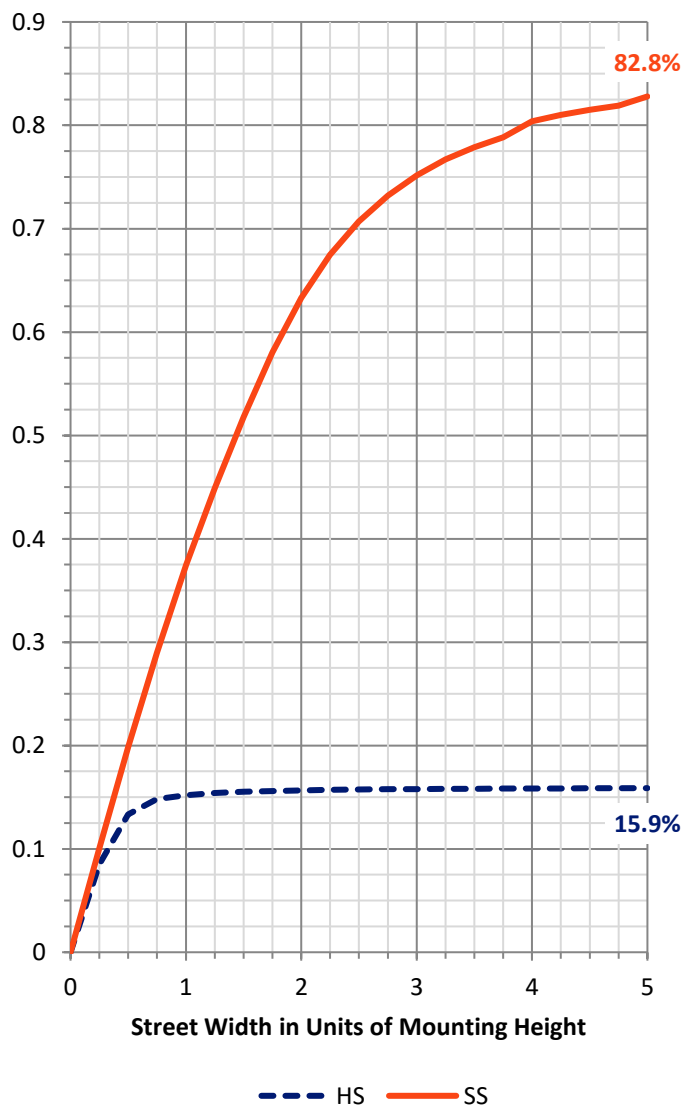
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4741.9	0.0	4741.9
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	24789.1	0.0	24789.1
	% Fixture	83.9	0.0	83.9
Total	Lumens	29531.0	0.0	29531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.9	1.0
10°-20°	868.8	2.9
20°-30°	1539.3	5.2
30°-40°	2465.5	8.3
40°-50°	3955.2	13.4
50°-60°	5781.3	19.6
60°-70°	7703.9	26.1
70°-80°	5781.1	19.6
80°-90°	1143.8	3.9
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°	29531.0	100.0
0°-180°	29531.0	100.0

Coefficient of Utilization



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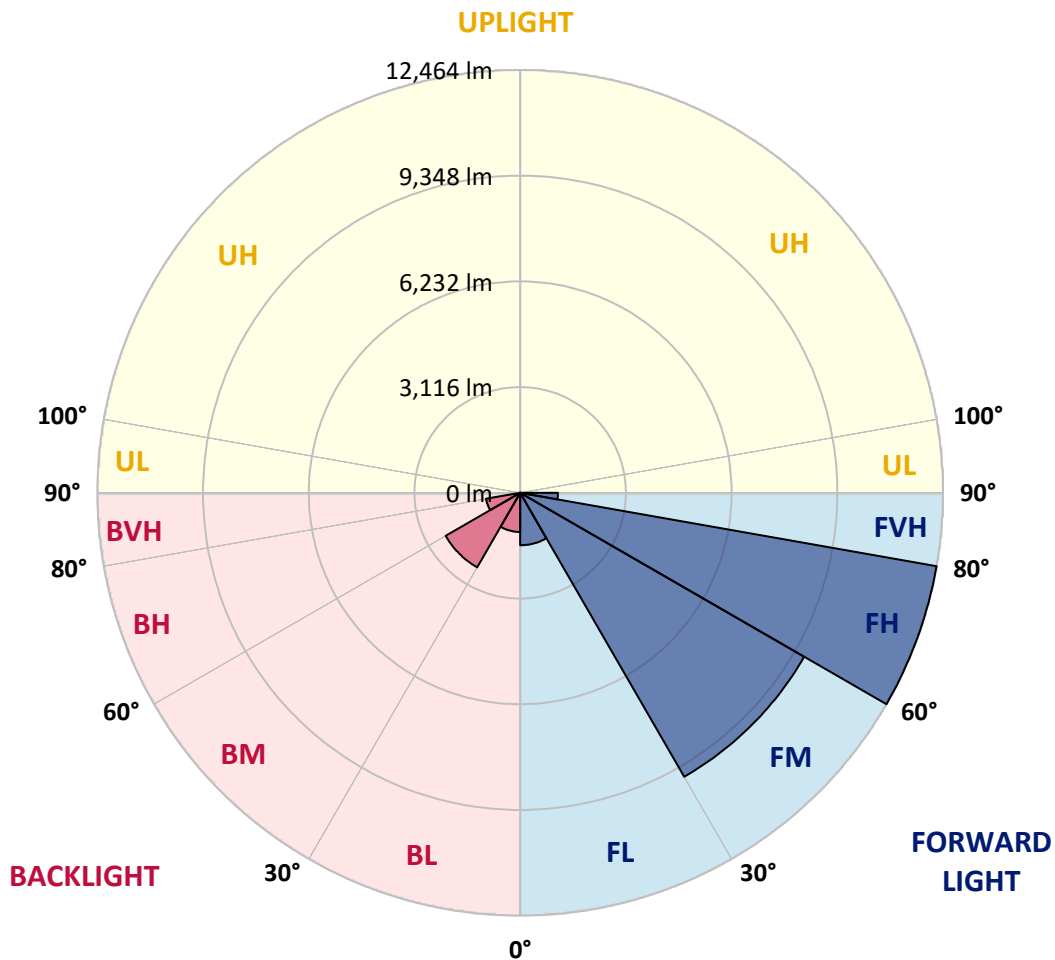
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1545.4	5.2			
FM	(30°-60°)	9665.8	32.7			
FH	(60°-80°)	12464.1	42.2			G5
FVH	(80°-90°)	1113.9	3.8			G5
BL	(0°-30°)	1154.7	3.9	B3/2500		
BM	(30°-60°)	2536.3	8.6	B3/5000		
BH	(60°-80°)	1021.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	30.0	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2
2.5°	3095.2	3136.7	3136.7	3124.9	3132.3	3138.2	3093.7	3105.6	3101.1	3099.6	3108.5
5°	3118.9	3164.9	3161.9	3147.1	3153.0	3164.9	3123.4	3141.2	3135.2	3120.4	3123.4
7.5°	3118.9	3157.5	3166.4	3150.1	3178.3	3193.1	3148.6	3164.9	3172.3	3161.9	3151.6
10°	3107.0	3141.2	3153.0	3150.1	3187.2	3210.9	3167.9	3213.9	3219.8	3219.8	3203.5
12.5°	3102.6	3141.2	3157.5	3170.9	3213.9	3239.1	3213.9	3258.4	3288.1	3286.6	3276.2
15°	3105.6	3148.6	3173.8	3196.1	3242.1	3273.2	3262.8	3331.1	3366.7	3377.1	3377.1
17.5°	3179.8	3231.7	3243.6	3267.3	3298.5	3345.9	3332.6	3420.1	3476.5	3494.3	3519.5
20°	3387.5	3427.5	3442.4	3430.5	3443.9	3473.5	3446.8	3531.4	3616.0	3663.5	3705.0
22.5°	3653.1	3682.8	3669.4	3657.5	3650.1	3657.5	3624.9	3681.3	3776.2	3844.5	3915.7
25°	3854.9	3920.2	3909.8	3877.1	3866.7	3875.7	3834.1	3903.8	3991.4	4062.6	4169.4
27.5°	4099.7	4139.8	4111.6	4099.7	4107.1	4105.6	4080.4	4147.2	4227.3	4316.3	4473.6
30°	4365.3	4399.4	4371.2	4359.4	4372.7	4381.6	4353.4	4470.6	4555.2	4651.7	4854.9
32.5°	4801.5	4883.1	4806.0	4651.7	4654.6	4668.0	4671.0	4828.2	4982.6	5058.2	5326.8
35°	5423.2	5488.5	5386.1	5199.2	4966.2	4957.3	4981.1	5215.5	5525.6	5869.9	6184.4
37.5°	6003.4	6098.4	6006.4	5788.3	5504.8	5436.6	5313.4	5592.4	6080.6	6821.0	7212.7
40°	6699.3	6770.5	6588.0	6398.1	6114.7	6018.2	5820.9	5998.9	6668.1	7813.6	8083.7
42.5°	7258.7	7301.7	7150.4	6951.5	6705.2	6632.5	6429.2	6445.6	7295.8	8683.1	8856.7
45°	7776.5	7822.5	7697.9	7528.7	7372.9	7285.4	7137.0	7217.1	8031.7	9600.1	9494.7
47.5°	8169.7	8215.7	8116.3	7996.1	7834.4	7775.0	7778.0	8065.9	8932.4	10333.1	10067.5
50°	8813.7	8795.9	8536.2	8405.7	8279.5	8310.7	8343.3	8752.9	9840.5	10962.2	10597.2
52.5°	9936.9	9849.4	9313.7	8972.5	8816.7	8870.1	8923.5	9468.0	10871.7	11536.4	11003.8
55°	11207.0	11118.0	10662.5	9932.5	9520.0	9606.0	9560.0	10175.8	11738.2	12088.4	11339.1
57.5°	12150.7	12297.6	12124.0	11726.4	10693.6	10580.9	10478.5	10891.0	12438.6	12640.4	11661.1
60°	12971.3	13176.0	13486.1	13377.8	12938.6	12644.8	11705.6	11726.4	13112.2	13023.2	11788.7
62.5°	13772.5	13892.7	14423.9	14541.1	15085.7	15296.4	14342.3	12806.6	13763.6	13288.8	11874.7
65°	12971.3	13125.6	14050.0	14903.2	16662.9	16944.8	16609.5	14762.2	14242.9	13446.1	11775.3
67.5°	11675.9	11769.4	12768.0	14320.0	17487.9	17743.1	17482.0	16557.6	14466.9	13398.6	11466.7
70°	9982.9	10129.8	11110.6	13190.9	17458.2	17594.7	17367.7	16774.2	14382.3	13125.6	10687.7
72.5°	8255.8	8338.9	9169.8	11245.6	16605.1	16719.3	16599.1	16441.8	14097.5	12364.4	9190.6
75°	6205.2	6223.0	7074.7	8880.5	14682.1	15278.5	15425.4	15869.1	13006.9	10598.7	6797.2
77.5°	4160.5	4337.1	5154.7	6786.8	12052.8	13006.9	13702.8	14026.2	10867.3	7910.1	3614.5
80°	2233.1	2277.6	3159.0	4816.4	9159.4	10071.9	10732.2	10738.2	7600.0	3918.7	807.2
82.5°	1034.2	991.2	1590.6	3047.7	6344.7	6751.2	7193.4	6025.7	3043.2	669.2	206.2
85°	458.5	483.7	719.6	1485.3	3521.0	3929.1	3872.7	2667.8	534.2	181.0	126.1
87.5°	170.6	179.5	279.0	599.4	1256.8	1371.0	1233.0	513.4	69.7	63.8	38.6
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°	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2
2.5°	3098.1	3098.1	3095.2	3055.1	3046.2	3026.9	3010.6	3022.5	3009.1	3018.0	3009.1
5°	3111.5	3104.1	3086.3	3038.8	3016.5	2973.5	2940.9	2948.3	2930.5	2930.5	2929.0
7.5°	3142.7	3127.8	3096.7	3021.0	2979.4	2917.1	2866.7	2850.4	2832.5	2811.8	2808.8
10°	3193.1	3172.3	3130.8	3026.9	2946.8	2863.7	2776.2	2742.0	2697.5	2664.9	2658.9
12.5°	3262.8	3231.7	3175.3	3049.2	2943.8	2811.8	2694.6	2627.8	2574.4	2526.9	2516.5
15°	3363.7	3332.6	3265.8	3093.7	2945.3	2762.8	2608.5	2497.2	2405.2	2360.7	2362.2
17.5°	3510.6	3488.4	3386.0	3187.2	2973.5	2737.6	2537.3	2360.7	2218.3	2144.1	2133.7
20°	3699.1	3684.2	3559.6	3310.3	3038.8	2742.0	2460.1	2215.3	2006.1	1844.3	1808.7
22.5°	3918.7	3896.4	3743.6	3417.2	3089.2	2730.2	2375.5	2055.0	1740.5	1529.8	1488.2
25°	4163.5	4151.6	3912.7	3510.6	3095.2	2679.7	2253.9	1847.3	1452.6	1227.1	1191.5
27.5°	4476.6	4406.8	4065.6	3561.1	3081.8	2580.3	2080.3	1562.4	1154.4	998.6	960.0
30°	4819.3	4678.4	4214.0	3599.7	3016.5	2421.5	1832.5	1233.0	859.1	721.1	701.8
32.5°	5199.2	4988.5	4353.4	3596.7	2900.8	2176.7	1510.5	856.1	580.2	523.8	504.5
35°	5886.2	5528.6	4521.1	3547.7	2706.4	1885.9	1066.8	557.9	430.3	396.2	391.7
37.5°	6840.3	6233.4	4746.6	3454.3	2455.7	1547.6	695.9	381.3	368.0	369.5	368.0
40°	7622.2	7019.8	5059.7	3313.3	2139.6	1105.4	416.9	339.8	347.2	351.7	353.1
42.5°	8387.8	7660.8	5447.0	3136.7	1808.7	718.2	338.3	324.9	319.0	326.4	329.4
45°	9003.6	8220.2	5812.0	2930.5	1421.5	424.4	327.9	301.2	290.8	293.8	298.2
47.5°	9496.2	8665.3	6031.6	2690.1	1038.7	320.5	319.0	280.4	265.6	262.6	261.1
50°	9960.7	9046.6	6172.6	2399.3	661.8	308.6	295.3	256.7	238.9	235.9	235.9
52.5°	10276.7	9295.9	6220.0	2055.0	394.7	301.2	279.0	237.4	213.7	218.1	221.1
55°	10585.3	9548.2	6122.1	1606.9	302.7	281.9	261.1	213.7	194.4	212.2	218.1
57.5°	10732.2	9585.3	5901.0	1117.3	293.8	255.2	235.9	191.4	176.6	187.0	187.0
60°	10850.9	9560.0	5592.4	707.8	286.4	237.4	215.1	173.6	155.8	149.9	145.4
62.5°	10772.3	9459.1	4972.2	461.5	265.6	216.6	195.9	160.2	135.0	118.7	117.2
65°	10604.6	9103.0	3969.1	363.5	246.3	206.2	178.1	143.9	118.7	99.4	97.9
67.5°	10110.5	8236.5	2568.4	301.2	235.9	198.8	164.7	133.5	105.3	86.1	84.6
70°	8926.5	6653.3	787.9	270.0	244.8	191.4	161.7	121.7	93.5	75.7	72.7
72.5°	7058.4	4445.4	292.3	224.1	210.7	184.0	157.3	109.8	80.1	63.8	60.8
75°	4546.3	1452.6	247.8	173.6	179.5	175.1	145.4	100.9	68.3	51.9	50.4
77.5°	1287.9	304.2	225.5	127.6	158.8	169.2	127.6	84.6	60.8	44.5	43.0
80°	270.0	216.6	206.2	90.5	118.7	109.8	86.1	65.3	57.9	38.6	38.6
82.5°	176.6	172.1	176.6	62.3	78.6	80.1	68.3	56.4	50.4	35.6	35.6
85°	124.6	157.3	84.6	44.5	37.1	34.1	40.1	49.0	44.5	29.7	29.7
87.5°	43.0	25.2	17.8	17.8	16.3	16.3	19.3	22.3	23.7	23.7	22.3
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)