

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: P510296

Luminaire Tested: **VERD-M-CA4-240-760-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510296
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-CA4-240-760-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1090mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29978 lumens
Efficiency: N/A
Efficacy: 123.7 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

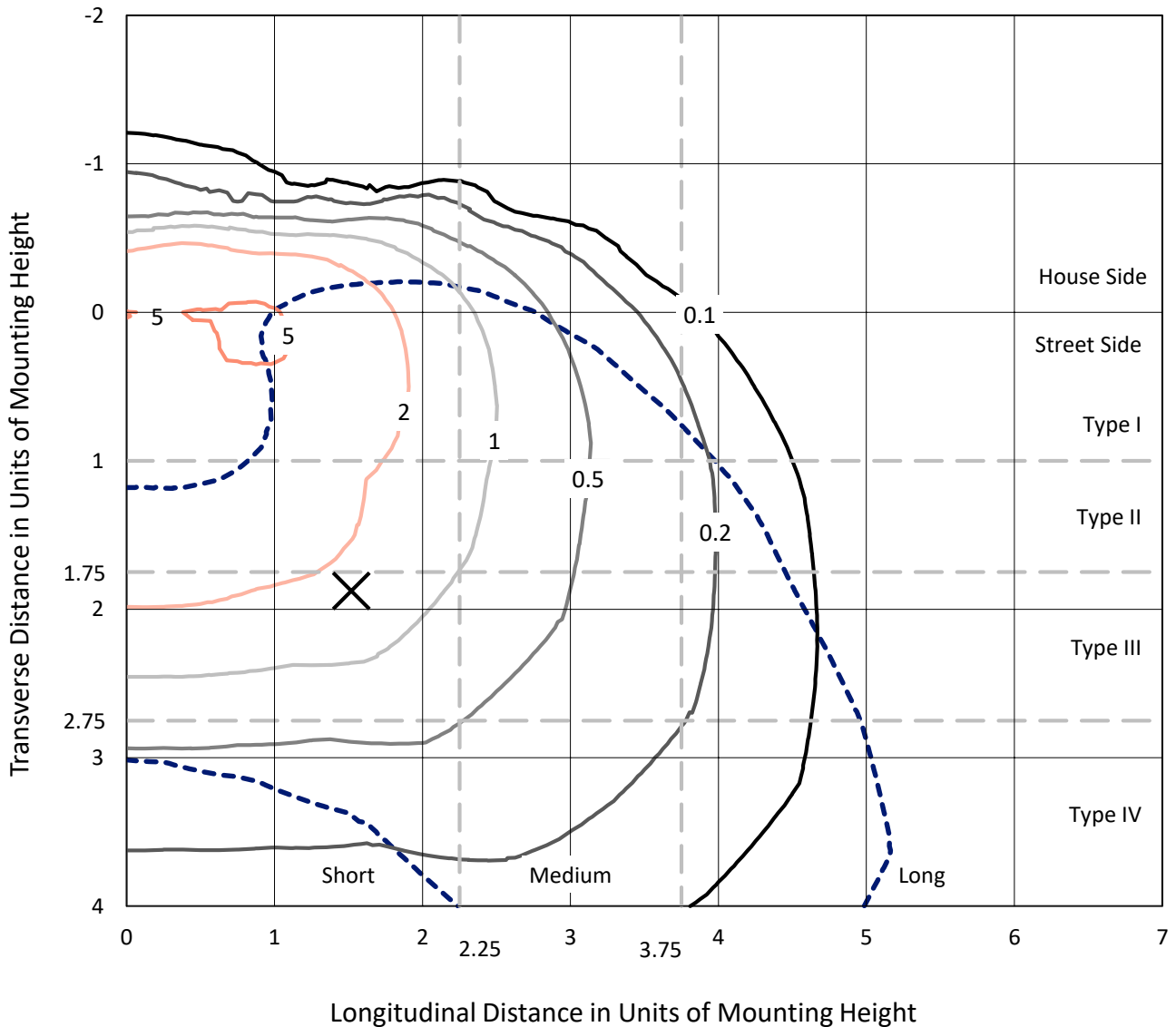
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

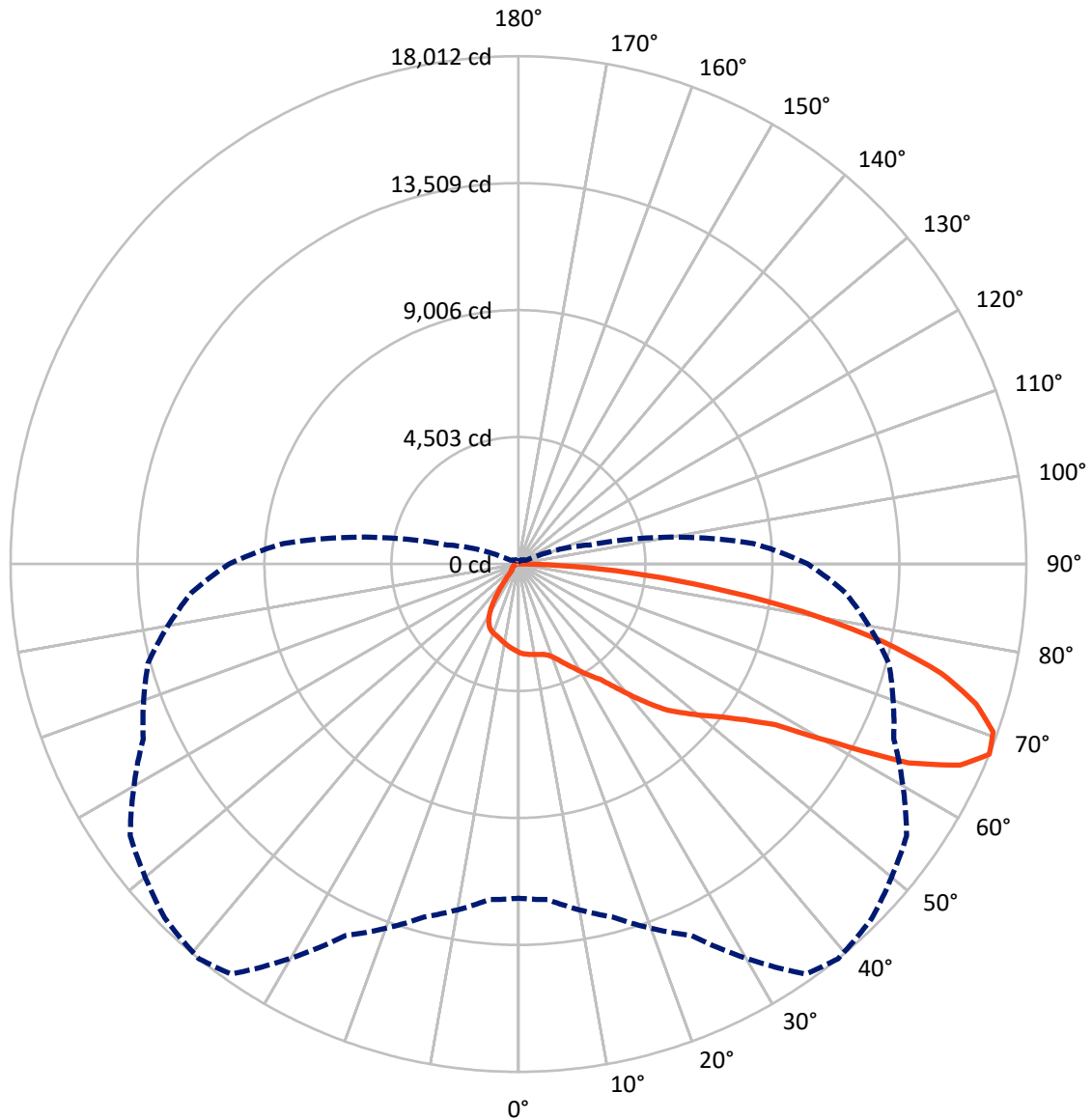
✕ Max cd
 - - - 1/2 Max cd



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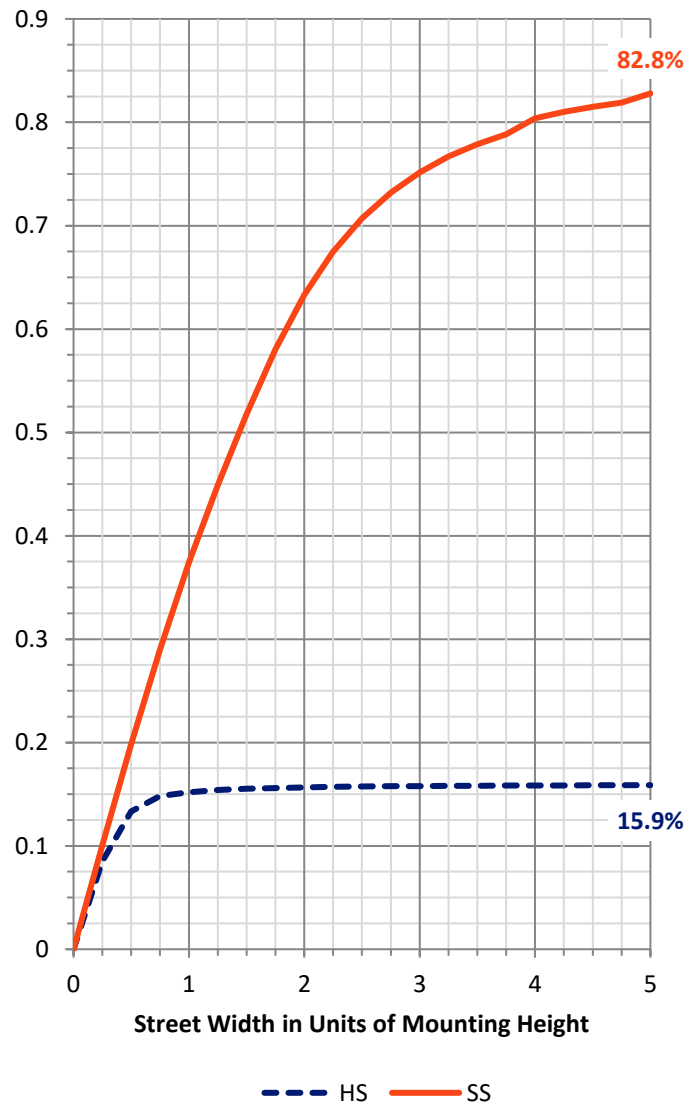
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4813.7	0.0	4813.7
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	25164.3	0.0	25164.3
	% Fixture	83.9	0.0	83.9
Total	Lumens	29978.0	0.0	29978.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	1.0
10°-20°	882.0	2.9
20°-30°	1562.6	5.2
30°-40°	2502.8	8.3
40°-50°	4015.0	13.4
50°-60°	5868.8	19.6
60°-70°	7820.5	26.1
70°-80°	5868.6	19.6
80°-90°	1161.1	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°	29978.0	100.0
0°-180°	29978.0	100.0



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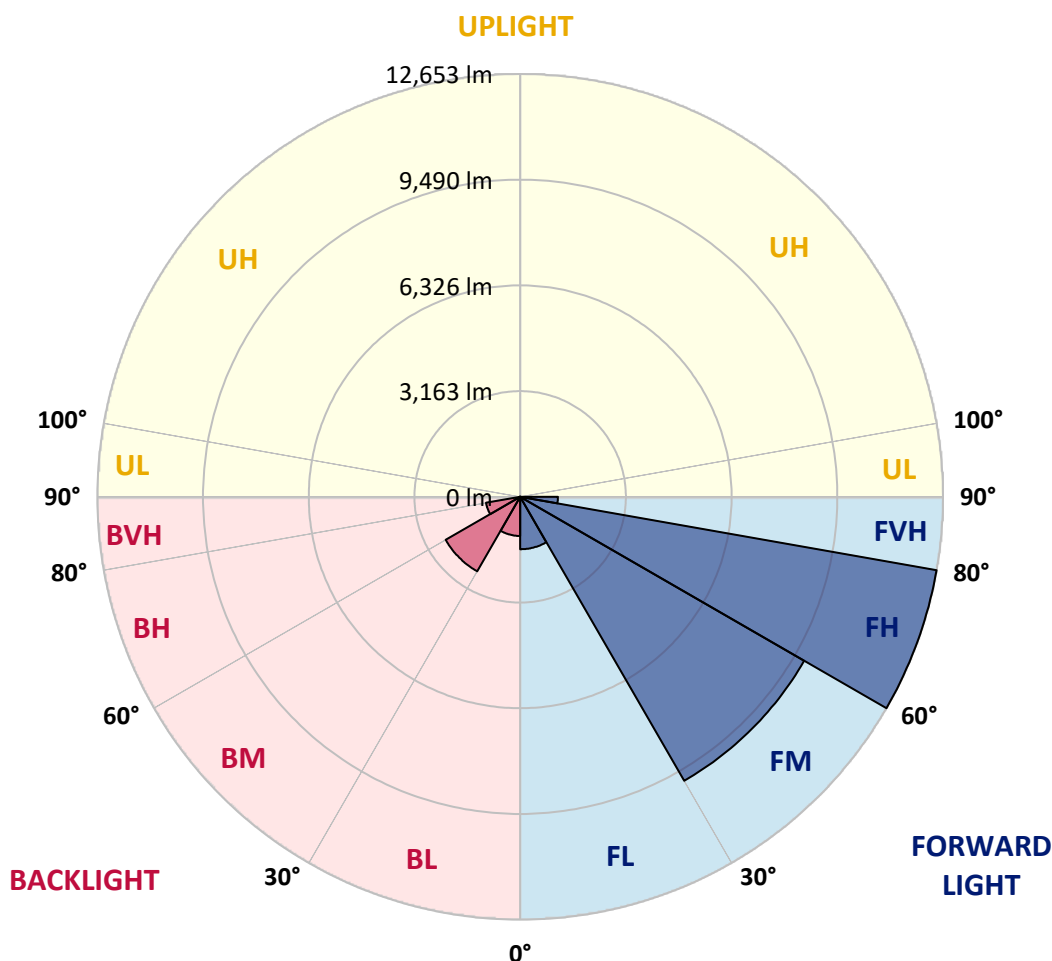
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1568.8	5.2			
FM	(30°-60°)	9812.1	32.7			
FH	(60°-80°)	12652.7	42.2			G5
FVH	(80°-90°)	1130.7	3.8			G5
BL	(0°-30°)	1172.2	3.9	B3/2500		
BM	(30°-60°)	2574.6	8.6	B3/5000		
BH	(60°-80°)	1036.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	30.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3139.0	3139.0	3139.0	3139.0	3139.0	3139.0	3139.0	3139.0	3139.0	3139.0	3139.0
2.5°	3142.0	3184.2	3184.2	3172.2	3179.7	3185.7	3140.5	3152.6	3148.1	3146.5	3155.6
5°	3166.1	3212.8	3209.8	3194.7	3200.8	3212.8	3170.6	3188.7	3182.7	3167.6	3170.6
7.5°	3166.1	3205.3	3214.3	3197.8	3226.4	3241.4	3196.3	3212.8	3220.4	3209.8	3199.3
10°	3154.1	3188.7	3200.8	3197.8	3235.4	3259.5	3215.8	3262.5	3268.6	3268.6	3252.0
12.5°	3149.6	3188.7	3205.3	3218.8	3262.5	3288.1	3262.5	3307.7	3337.8	3336.3	3325.8
15°	3152.6	3196.3	3221.9	3244.5	3291.1	3322.8	3312.2	3381.5	3417.7	3428.2	3428.2
17.5°	3227.9	3280.6	3292.7	3316.8	3348.4	3396.6	3383.0	3471.9	3529.1	3547.2	3572.8
20°	3438.8	3479.4	3494.5	3482.4	3496.0	3526.1	3499.0	3584.9	3670.7	3718.9	3761.1
22.5°	3708.4	3738.5	3724.9	3712.9	3705.4	3712.9	3679.8	3737.0	3833.4	3902.7	3975.0
25°	3913.2	3979.5	3969.0	3935.8	3925.3	3934.3	3892.1	3962.9	4051.8	4124.1	4232.6
27.5°	4161.8	4202.4	4173.8	4161.8	4169.3	4167.8	4142.2	4210.0	4291.3	4381.7	4541.3
30°	4431.4	4466.0	4437.4	4425.4	4438.9	4447.9	4419.3	4538.3	4624.2	4722.1	4928.4
32.5°	4874.2	4957.1	4878.7	4722.1	4725.1	4738.6	4741.7	4901.3	5058.0	5134.8	5407.4
35°	5505.3	5571.6	5467.7	5277.9	5041.4	5032.4	5056.5	5294.5	5609.3	5958.7	6278.0
37.5°	6094.3	6190.7	6097.3	5875.9	5588.2	5518.9	5393.9	5677.0	6172.6	6924.2	7321.9
40°	6800.7	6873.0	6687.7	6494.9	6207.2	6109.3	5909.0	6089.8	6769.1	7931.9	8206.0
42.5°	7368.6	7412.2	7258.6	7056.8	6806.7	6732.9	6526.6	6543.1	7406.2	8814.6	8990.8
45°	7894.2	7940.9	7814.4	7642.7	7484.5	7395.7	7245.0	7326.4	8153.3	9745.4	9638.5
47.5°	8293.4	8340.1	8239.2	8117.2	7953.0	7892.7	7895.7	8188.0	9067.6	10489.5	10219.9
50°	8947.1	8929.0	8665.4	8532.9	8404.9	8436.5	8469.6	8885.3	9989.4	11128.1	10757.6
52.5°	10087.3	9998.5	9454.7	9108.3	8950.1	9004.3	9058.6	9611.4	11036.3	11711.1	11170.3
55°	11376.7	11286.3	10823.9	10082.8	9664.1	9751.4	9704.7	10329.8	11915.9	12271.4	11510.7
57.5°	12334.6	12483.8	12307.5	11903.9	10855.5	10741.0	10637.1	11055.8	12626.9	12831.7	11837.6
60°	13167.6	13375.5	13690.3	13580.3	13134.5	12836.2	11882.8	11903.9	13310.7	13220.3	11967.1
62.5°	13981.0	14103.0	14642.2	14761.2	15314.0	15527.9	14559.4	13000.4	13971.9	13489.9	12054.5
65°	13167.6	13324.3	14262.6	15128.7	16915.1	17201.3	16860.9	14985.6	14458.5	13649.6	11953.6
67.5°	11852.6	11947.5	12961.2	14536.8	17752.6	18011.7	17746.6	16808.2	14685.9	13601.4	11640.3
70°	10134.0	10283.1	11278.8	13390.5	17722.5	17861.1	17630.6	17028.1	14600.0	13324.3	10849.5
72.5°	8380.8	8465.1	9308.6	11415.8	16856.4	16972.4	16850.4	16690.7	14310.8	12551.5	9329.7
75°	6299.1	6317.2	7181.8	9014.9	14904.3	15509.8	15658.9	16109.3	13203.8	10759.1	6900.1
77.5°	4223.5	4402.8	5232.7	6889.6	12235.2	13203.8	13910.2	14238.5	11031.7	8029.8	3669.2
80°	2266.9	2312.1	3206.8	4889.3	9298.1	10224.4	10894.7	10900.7	7715.0	3978.0	819.4
82.5°	1049.9	1006.2	1614.7	3093.8	6440.7	6853.4	7302.3	6116.9	3089.3	679.3	209.4
85°	465.4	491.0	730.5	1507.8	3574.3	3988.5	3931.3	2708.2	542.2	183.8	128.0
87.5°	173.2	182.3	283.2	608.5	1275.8	1391.8	1251.7	521.2	70.8	64.8	39.2
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°	3139.0	3139.0	3139.0	3139.0	3139.0	3139.0	3139.0	3139.0	3139.0	3139.0	3139.0
2.5°	3145.0	3145.0	3142.0	3101.4	3092.3	3072.7	3056.2	3068.2	3054.7	3063.7	3054.7
5°	3158.6	3151.1	3133.0	3084.8	3062.2	3018.5	2985.4	2992.9	2974.8	2974.8	2973.3
7.5°	3190.2	3175.2	3143.5	3066.7	3024.5	2961.3	2910.1	2893.5	2875.4	2854.3	2851.3
10°	3241.4	3220.4	3178.2	3072.7	2991.4	2907.1	2818.2	2783.5	2738.4	2705.2	2699.2
12.5°	3312.2	3280.6	3223.4	3095.3	2988.4	2854.3	2735.3	2667.6	2613.3	2565.1	2554.6
15°	3414.7	3383.0	3315.2	3140.5	2989.9	2804.6	2648.0	2535.0	2441.6	2396.4	2397.9
17.5°	3563.8	3541.2	3437.3	3235.4	3018.5	2779.0	2575.7	2396.4	2251.8	2176.5	2166.0
20°	3755.1	3740.0	3613.5	3360.4	3084.8	2783.5	2497.4	2248.8	2036.4	1872.3	1836.1
22.5°	3978.0	3955.4	3800.3	3468.9	3136.0	2771.5	2411.5	2086.2	1766.8	1552.9	1510.8
25°	4226.5	4214.5	3972.0	3563.8	3142.0	2720.3	2288.0	1875.3	1474.6	1245.7	1209.5
27.5°	4544.3	4473.6	4127.1	3615.0	3128.5	2619.4	2111.8	1586.1	1171.9	1013.7	974.5
30°	4892.3	4749.2	4277.7	3654.2	3062.2	2458.2	1860.2	1251.7	872.1	732.0	712.5
32.5°	5277.9	5064.0	4419.3	3651.1	2944.7	2209.7	1533.4	869.1	588.9	531.7	512.1
35°	5975.3	5612.3	4589.5	3601.4	2747.4	1914.4	1083.0	566.3	436.8	402.2	397.6
37.5°	6943.8	6327.7	4818.5	3506.5	2492.8	1571.0	706.4	387.1	373.5	375.1	373.5
40°	7737.6	7126.0	5136.3	3363.4	2172.0	1122.2	423.3	344.9	352.5	357.0	358.5
42.5°	8514.8	7776.7	5529.4	3184.2	1836.1	729.0	343.4	329.9	323.8	331.4	334.4
45°	9139.9	8344.6	5900.0	2974.8	1443.0	430.8	332.9	305.8	295.2	298.2	302.8
47.5°	9640.0	8796.5	6122.9	2730.8	1054.4	325.3	323.8	284.7	269.6	266.6	265.1
50°	10111.4	9183.6	6266.0	2435.6	671.8	313.3	299.7	260.6	242.5	239.5	239.5
52.5°	10432.3	9436.6	6314.2	2086.2	400.7	305.8	283.2	241.0	216.9	221.4	224.4
55°	10745.6	9692.7	6214.8	1631.3	307.3	286.2	265.1	216.9	197.3	215.4	221.4
57.5°	10894.7	9730.3	5990.3	1134.2	298.2	259.1	239.5	194.3	179.2	189.8	189.8
60°	11015.2	9704.7	5677.0	718.5	290.7	241.0	218.4	176.2	158.2	152.1	147.6
62.5°	10935.3	9602.3	5047.4	468.4	269.6	219.9	198.8	162.7	137.1	120.5	119.0
65°	10765.1	9240.8	4029.2	369.0	250.0	209.4	180.7	146.1	120.5	100.9	99.4
67.5°	10263.6	8361.2	2607.3	305.8	239.5	201.8	167.2	135.6	106.9	87.4	85.9
70°	9061.6	6754.0	799.8	274.1	248.5	194.3	164.2	123.5	94.9	76.8	73.8
72.5°	7165.2	4512.7	296.7	227.4	213.9	186.8	159.7	111.5	81.3	64.8	61.8
75°	4615.1	1474.6	251.5	176.2	182.3	177.7	147.6	102.4	69.3	52.7	51.2
77.5°	1307.4	308.8	228.9	129.5	161.2	171.7	129.5	85.9	61.8	45.2	43.7
80°	274.1	219.9	209.4	91.9	120.5	111.5	87.4	66.3	58.7	39.2	39.2
82.5°	179.2	174.7	179.2	63.3	79.8	81.3	69.3	57.2	51.2	36.1	36.1
85°	126.5	159.7	85.9	45.2	37.7	34.6	40.7	49.7	45.2	30.1	30.1
87.5°	43.7	25.6	18.1	18.1	16.6	16.6	19.6	22.6	24.1	24.1	22.6
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)