

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: P509974

Luminaire Tested: **VERD-M-CA3-180-727-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509974
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-CA3-180-727-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20180 lumens
Efficiency: N/A
Efficacy: 110.2 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

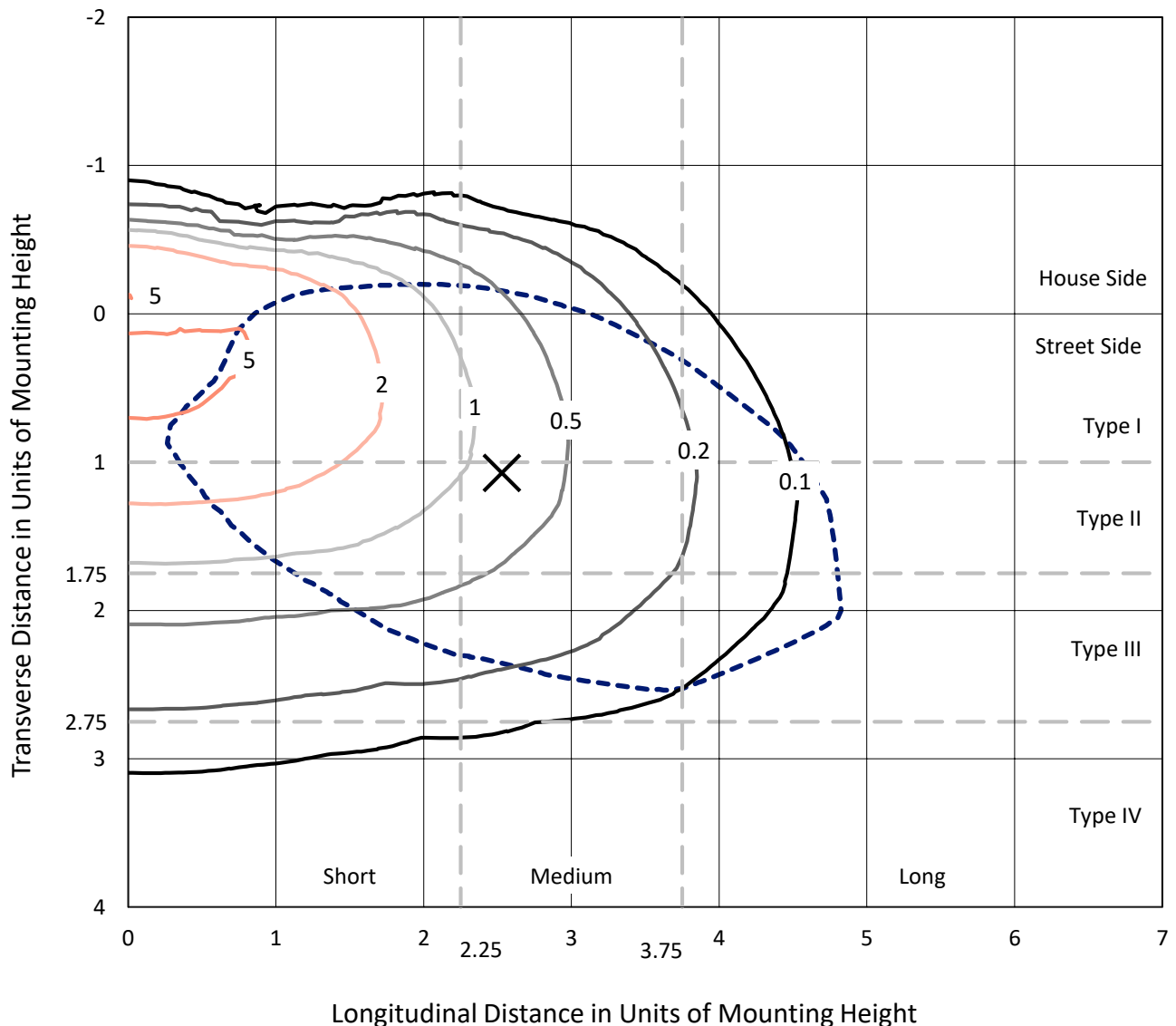
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

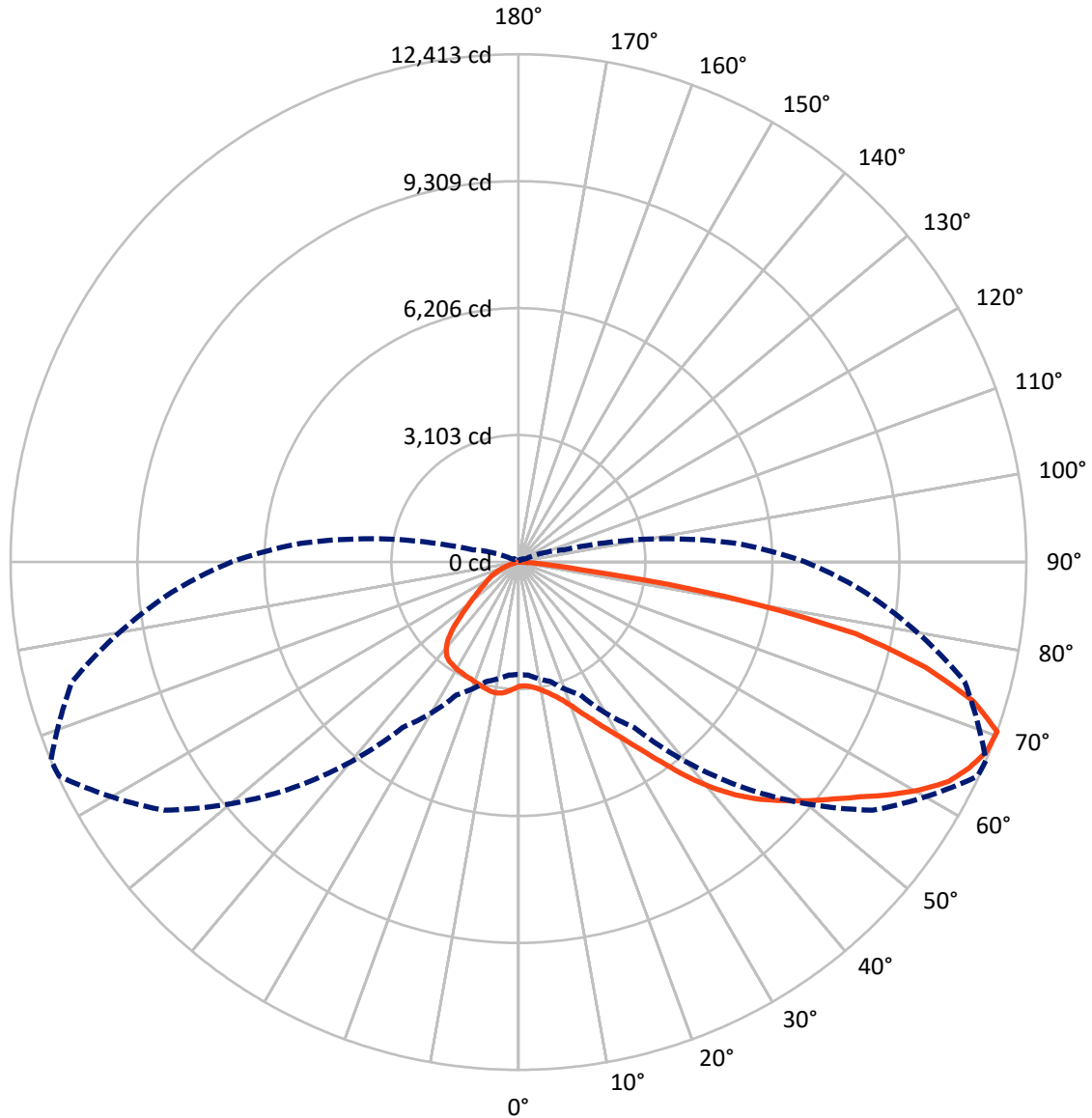
✕ Max cd
 - - - 1/2 Max cd



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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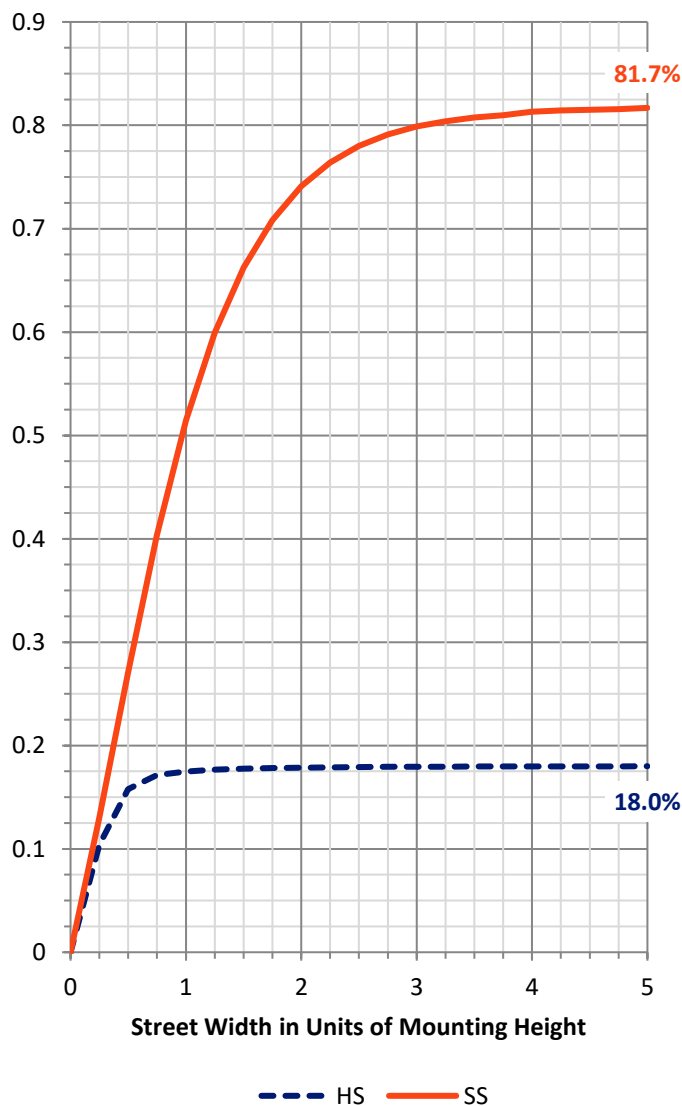
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3677.0	0.0	3677.0
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	16503.0	0.0	16503.0
	% Fixture	81.8	0.0	81.8
Total	Lumens	20180.0	0.0	20180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.4	1.5
10°-20°	943.5	4.7
20°-30°	1637.1	8.1
30°-40°	2431.4	12.0
40°-50°	3335.7	16.5
50°-60°	4096.4	20.3
60°-70°	4391.8	21.8
70°-80°	2788.0	13.8
80°-90°	253.7	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°	20180.0	100.0
0°-180°	20180.0	100.0

Coefficient of Utilization



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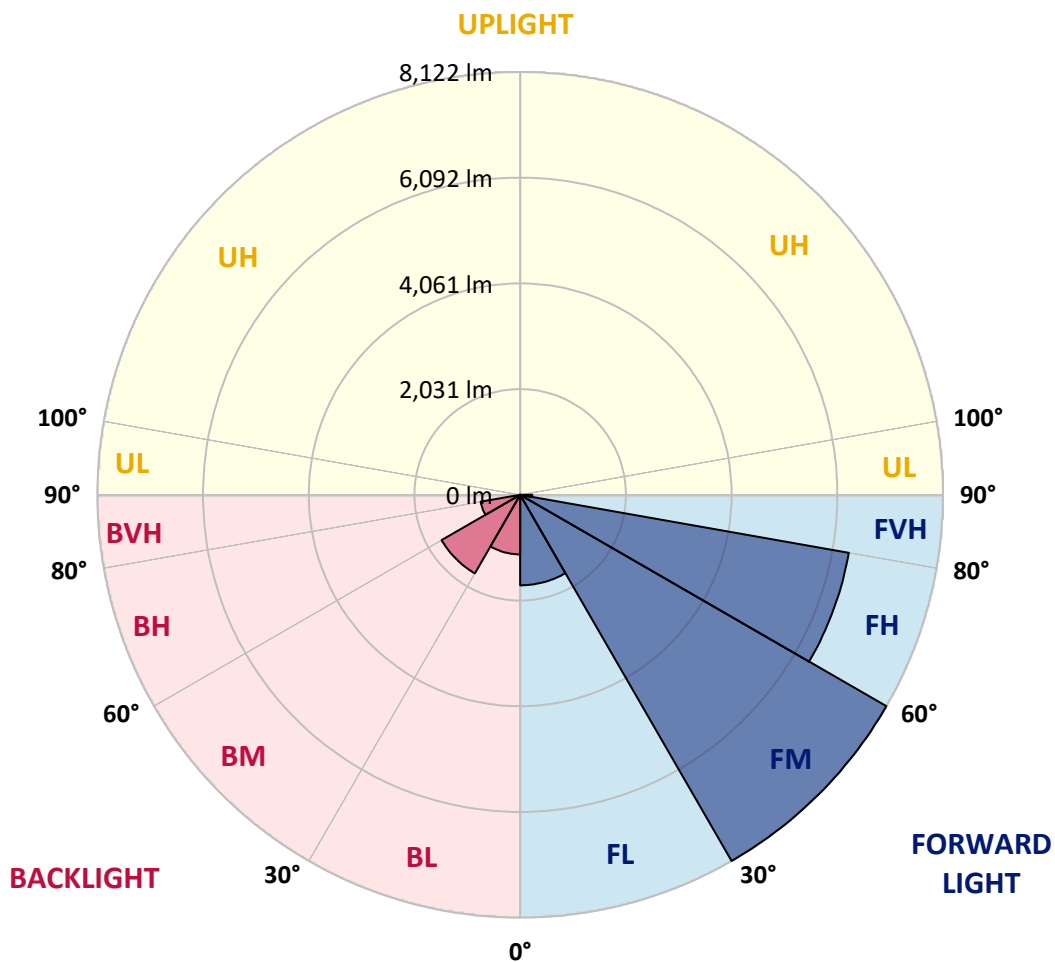
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1738.7	8.6			
FM	(30°-60°)	8122.2	40.2			
FH	(60°-80°)	6410.7	31.8			G3/7500
FVH	(80°-90°)	231.4	1.1			G3/500
BL	(0°-30°)	1144.3	5.7	B3/2500		
BM	(30°-60°)	1741.2	8.6	B2/2500		
BH	(60°-80°)	769.1	3.8	B2/1000		G2/1000
BVH	(80°-90°)	22.3	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°	3035.5	3035.5	3035.5	3035.5	3035.5	3035.5	3035.5	3035.5	3035.5	3035.5	3035.5
2.5°	3008.2	3036.5	3019.9	3018.0	3037.5	3018.9	3031.6	3028.7	3026.7	3029.7	3050.2
5°	3087.3	3120.5	3098.0	3091.2	3101.9	3068.7	3065.8	3059.0	3057.0	3058.0	3087.3
7.5°	3197.6	3236.7	3227.9	3210.3	3204.4	3149.8	3140.0	3115.6	3107.8	3109.7	3139.0
10°	3371.4	3410.5	3392.9	3353.8	3329.4	3266.9	3231.8	3200.5	3184.9	3186.9	3218.1
12.5°	3594.0	3631.1	3601.8	3530.5	3516.9	3416.3	3361.6	3295.2	3284.5	3268.9	3302.1
15°	3803.9	3836.1	3822.5	3756.1	3719.0	3599.9	3499.3	3417.3	3407.5	3392.9	3391.9
17.5°	4036.3	4068.5	4043.1	3994.3	3945.5	3803.9	3695.6	3590.1	3564.7	3552.0	3506.1
20°	4284.3	4335.1	4330.2	4290.2	4231.6	4065.6	3912.3	3793.2	3765.8	3742.4	3645.8
22.5°	4540.1	4606.5	4591.9	4570.4	4546.0	4359.5	4180.8	4043.1	4022.6	3972.8	3820.5
25°	4823.3	4869.1	4858.4	4869.1	4852.5	4687.5	4492.3	4324.3	4297.0	4250.1	4016.8
27.5°	5097.6	5145.5	5164.0	5141.6	5152.3	5034.1	4802.8	4652.4	4626.0	4540.1	4253.1
30°	5345.6	5405.2	5431.5	5441.3	5477.4	5355.4	5184.5	5001.9	4993.1	4905.3	4564.5
32.5°	5543.8	5610.2	5674.6	5716.6	5774.2	5720.5	5550.6	5440.3	5441.3	5362.2	5032.2
35°	5687.3	5763.5	5857.2	5968.5	6089.6	6067.1	5966.6	5968.5	5984.2	6010.5	5628.8
37.5°	5846.5	5908.0	6018.3	6173.6	6358.1	6405.0	6391.3	6546.5	6622.7	6669.6	6153.1
40°	5941.2	6003.7	6141.4	6350.3	6618.8	6731.1	6857.0	7129.4	7229.0	7180.2	6601.2
42.5°	5836.7	5892.4	6131.6	6492.8	6832.6	7087.4	7313.0	7711.3	7783.6	7624.5	6979.1
45°	5701.0	5773.3	6025.2	6531.9	7022.0	7437.0	7787.5	8218.1	8271.8	8046.2	7313.0
47.5°	5589.7	5653.2	5947.1	6489.9	7196.8	7795.3	8204.4	8696.5	8710.2	8431.9	7658.6
50°	5447.2	5524.3	5830.9	6438.2	7302.3	8112.6	8586.2	9142.7	9173.0	8831.2	7951.5
52.5°	5297.8	5372.9	5690.3	6353.2	7378.4	8376.3	8982.6	9617.2	9620.1	9254.0	8264.0
55°	5077.1	5157.2	5508.7	6230.2	7401.8	8551.0	9380.9	10101.5	10131.8	9682.6	8547.1
57.5°	4843.8	4912.1	5290.0	6038.8	7314.9	8716.0	9790.0	10639.5	10722.5	10165.9	8790.2
60°	4534.2	4602.6	5001.9	5787.9	7130.4	8901.5	10258.7	11287.8	11296.6	10557.5	8967.0
62.5°	4201.3	4260.9	4628.0	5394.4	6844.3	8972.8	10661.0	11806.2	11805.3	10906.0	9054.8
65°	3805.9	3830.3	4204.2	4911.1	6400.1	8868.3	10838.7	12148.0	12114.8	11156.9	9025.5
67.5°	3337.2	3363.6	3646.7	4310.7	5755.7	8460.2	10759.6	12313.0	12346.2	11380.5	8898.6
70°	2743.6	2774.8	3021.9	3582.3	4934.6	7809.0	10574.1	12384.2	12412.6	11290.7	8507.1
72.5°	2025.0	2067.0	2218.3	2666.5	3745.3	6561.2	9714.9	11604.1	11619.7	10540.9	7691.8
75°	1257.6	1334.7	1477.2	1772.1	2430.2	4601.6	8304.0	10373.9	10276.3	9402.4	6364.9
77.5°	502.8	515.5	586.8	829.9	1185.3	2396.0	6019.3	8246.4	8432.9	7522.9	4552.8
80°	292.9	291.0	307.6	386.6	508.7	819.2	2341.3	4626.0	5156.2	4132.0	2048.4
82.5°	236.3	227.5	227.5	248.0	244.1	344.7	767.4	1351.3	1482.1	1315.2	582.9
85°	124.0	121.1	98.6	122.0	122.0	171.8	294.9	382.7	404.2	352.5	218.7
87.5°	31.2	31.2	31.2	38.1	30.3	36.1	49.8	60.5	62.5	50.8	32.2
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°	3035.5	3035.5	3035.5	3035.5	3035.5	3035.5	3035.5	3035.5	3035.5	3035.5	3035.5
2.5°	3058.0	3066.8	3100.9	3096.1	3101.9	3101.9	3111.7	3122.4	3154.6	3136.1	3128.3
5°	3093.1	3110.7	3153.7	3169.3	3192.7	3195.7	3215.2	3222.0	3257.2	3237.6	3237.6
7.5°	3160.5	3181.0	3221.0	3226.9	3237.6	3219.1	3224.0	3202.5	3225.9	3202.5	3203.5
10°	3236.7	3250.3	3277.7	3238.6	3222.0	3178.1	3168.3	3115.6	3134.1	3103.9	3096.1
12.5°	3309.9	3305.0	3284.5	3215.2	3169.3	3097.0	3066.8	2995.5	2991.6	2951.6	2943.7
15°	3379.2	3345.0	3278.6	3171.2	3093.1	2992.6	2920.3	2842.2	2814.9	2769.0	2765.1
17.5°	3464.2	3405.6	3287.4	3129.3	3001.4	2854.9	2752.4	2664.5	2607.9	2565.9	2564.9
20°	3567.6	3477.8	3291.3	3081.4	2906.6	2719.2	2575.7	2464.4	2383.3	2330.6	2329.6
22.5°	3697.5	3575.5	3327.5	3026.7	2785.6	2555.2	2376.5	2184.1	2072.8	1965.4	1945.9
25°	3849.8	3674.1	3358.7	2998.4	2666.5	2384.3	2118.7	1837.5	1664.7	1578.8	1546.6
27.5°	4063.6	3838.1	3404.6	2944.7	2554.2	2173.4	1786.8	1480.2	1272.2	1199.0	1199.0
30°	4310.7	4045.1	3490.5	2912.5	2398.0	1877.6	1422.6	1093.5	900.2	789.9	787.0
32.5°	4687.5	4292.1	3568.6	2843.2	2208.5	1555.4	1029.1	704.9	549.7	481.3	477.4
35°	5229.4	4762.7	3694.6	2773.9	1934.2	1158.0	653.2	404.2	313.4	274.4	272.4
37.5°	5750.8	5210.9	3966.0	2636.2	1544.6	727.4	362.2	233.4	191.4	186.5	184.5
40°	6117.9	5597.5	4157.4	2426.3	1097.4	385.7	209.9	168.9	166.0	164.0	163.1
42.5°	6518.2	5884.6	4293.1	2158.7	651.2	223.6	170.9	152.3	147.4	145.5	145.5
45°	6843.4	6160.9	4318.5	1776.0	328.1	184.5	156.2	138.6	132.8	136.7	137.7
47.5°	7143.1	6421.6	4232.6	1335.7	221.6	171.8	146.5	128.9	125.0	134.7	134.7
50°	7398.9	6642.2	4035.3	996.9	208.0	162.1	136.7	119.1	118.1	126.9	127.9
52.5°	7653.7	6819.9	3724.8	752.8	197.2	151.3	126.9	110.3	107.4	113.3	114.2
55°	7855.9	6883.4	3494.4	560.4	189.4	141.6	118.1	101.5	94.7	93.7	95.7
57.5°	7967.2	6827.7	3268.9	412.0	180.6	132.8	109.4	89.8	79.1	79.1	79.1
60°	7969.1	6760.4	3027.7	326.1	170.9	123.0	99.6	77.1	66.4	64.4	64.4
62.5°	7947.6	6640.3	2677.2	283.1	160.1	115.2	86.9	65.4	57.6	54.7	54.7
65°	7852.9	6413.8	2252.5	242.1	147.4	109.4	74.2	58.6	51.7	47.8	47.8
67.5°	7558.1	5989.0	1734.0	210.9	135.7	96.7	67.4	52.7	45.9	42.0	41.0
70°	7017.2	5302.7	1144.3	179.7	124.0	85.9	61.5	47.8	41.0	37.1	36.1
72.5°	6110.1	4315.5	575.1	152.3	106.4	79.1	55.7	42.0	35.1	31.2	31.2
75°	4788.1	2995.5	313.4	121.1	84.0	69.3	48.8	35.1	30.3	27.3	27.3
77.5°	2935.9	1485.1	213.8	93.7	63.5	56.6	39.1	29.3	26.4	25.4	25.4
80°	1071.1	486.2	143.5	66.4	47.8	43.9	31.2	25.4	24.4	24.4	24.4
82.5°	386.6	247.0	96.7	44.9	30.3	33.2	25.4	21.5	20.5	21.5	22.5
85°	159.1	108.4	35.1	25.4	16.6	17.6	15.6	14.6	15.6	16.6	16.6
87.5°	24.4	21.5	12.7	12.7	9.8	8.8	6.8	7.8	9.8	11.7	11.7
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)