

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: P510126

Luminaire Tested: **VERD-M-CA4-210-730-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510126
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-CA4-210-730-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 960mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27613 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

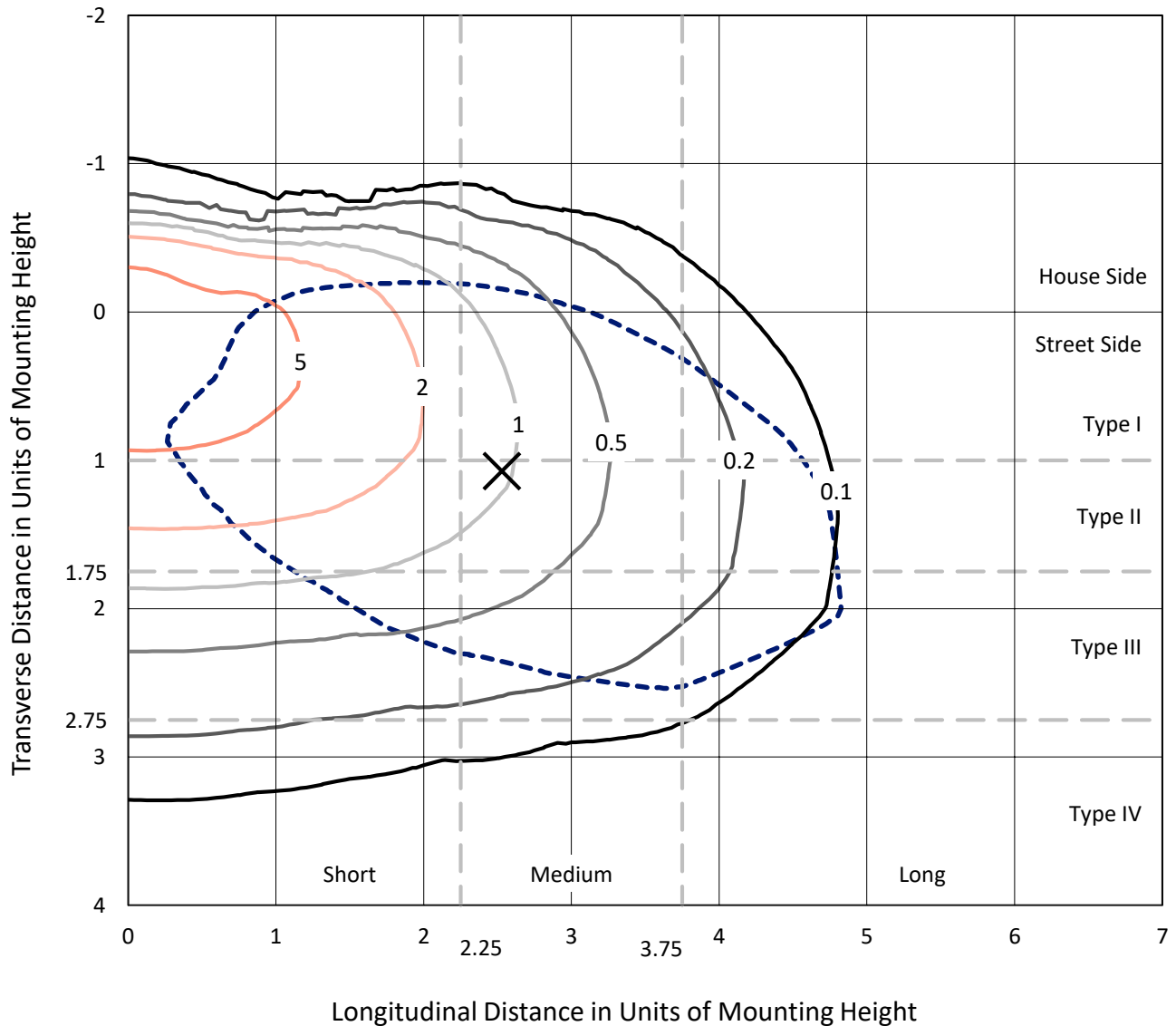
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

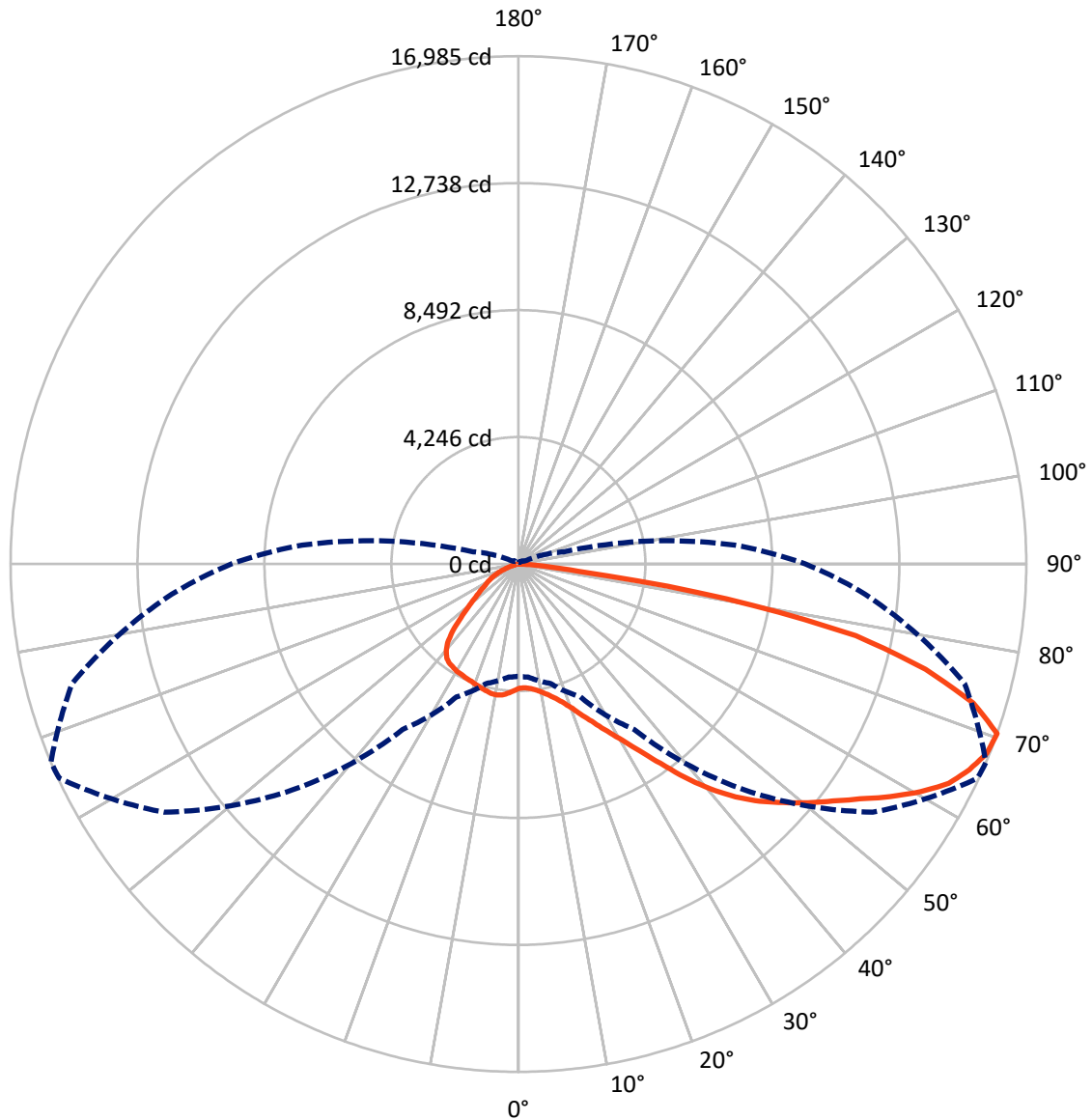
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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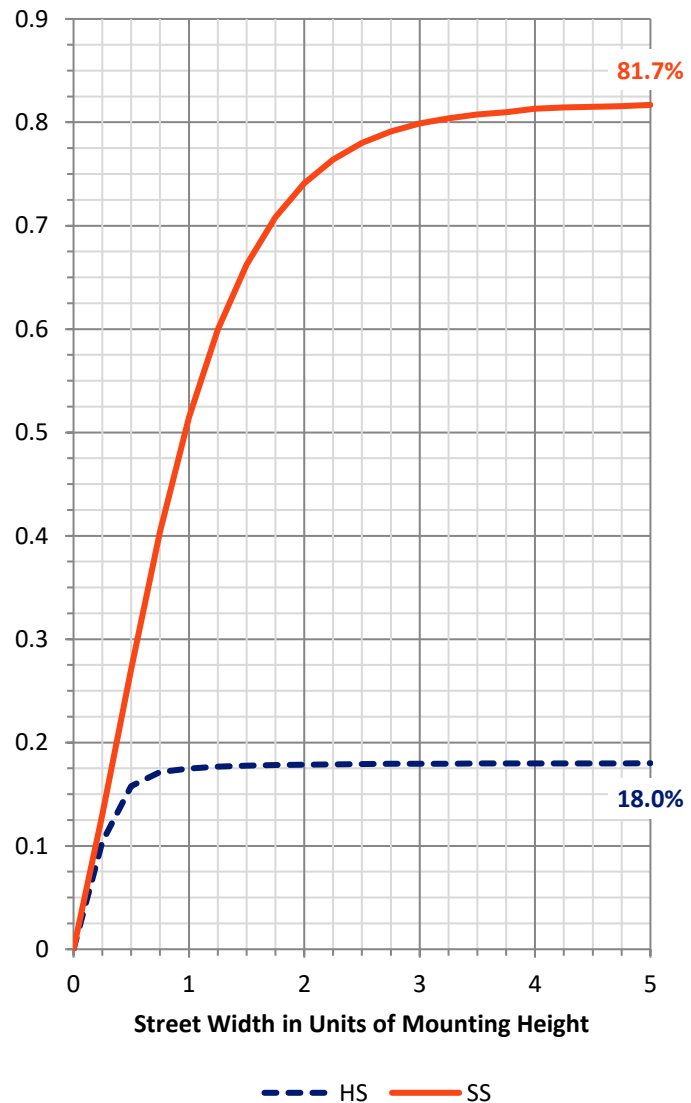
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5031.3	0.0	5031.3
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	22581.7	0.0	22581.7
	% Fixture	81.8	0.0	81.8
Total	Lumens	27613.0	0.0	27613.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.8	1.5
10°-20°	1291.1	4.7
20°-30°	2240.0	8.1
30°-40°	3326.9	12.0
40°-50°	4564.4	16.5
50°-60°	5605.3	20.3
60°-70°	6009.4	21.8
70°-80°	3814.9	13.8
80°-90°	347.2	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°	27613.0	100.0
0°-180°	27613.0	100.0



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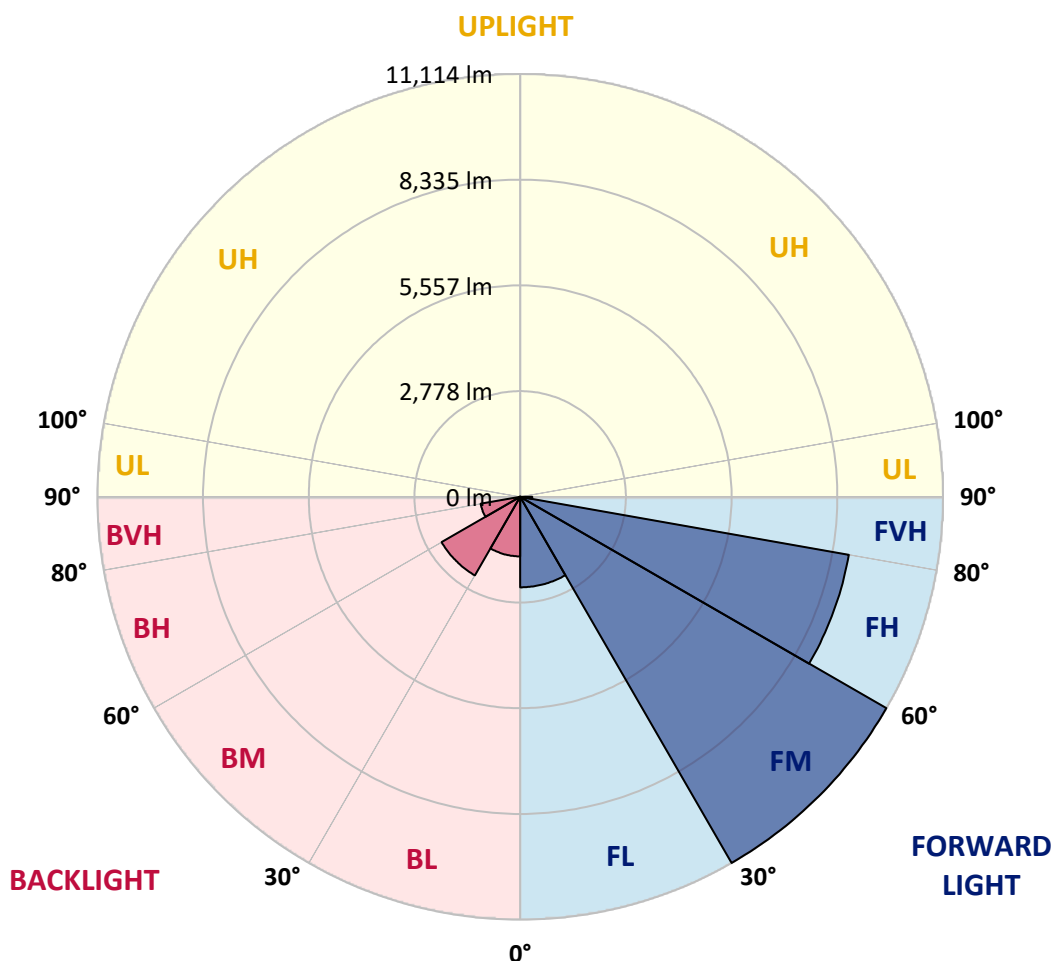
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2379.1	8.6			
FM (30°-60°)	11114.0	40.2			
FH (60°-80°)	8772.0	31.8			G4/12000
FVH (80°-90°)	316.7	1.1			G3/500
BL (0°-30°)	1565.8	5.7	B3/2500		
BM (30°-60°)	2382.6	8.6	B2/2500		
BH (60°-80°)	1052.4	3.8	B3/2500		G3/2500
BVH (80°-90°)	30.5	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6
2.5°	4116.2	4155.0	4132.2	4129.6	4156.3	4130.9	4148.3	4144.3	4141.6	4145.6	4173.7
5°	4224.4	4269.8	4239.1	4229.8	4244.5	4199.0	4195.0	4185.7	4183.0	4184.3	4224.4
7.5°	4375.4	4428.8	4416.8	4392.8	4384.7	4309.9	4296.6	4263.2	4252.5	4255.2	4295.2
10°	4613.2	4666.6	4642.6	4589.2	4555.8	4470.2	4422.2	4379.4	4358.0	4360.7	4403.4
12.5°	4917.8	4968.6	4928.5	4831.0	4812.3	4674.7	4599.8	4509.0	4494.3	4472.9	4518.3
15°	5205.0	5249.1	5230.4	5139.6	5088.8	4925.8	4788.2	4676.0	4662.6	4642.6	4641.3
17.5°	5523.0	5567.1	5532.4	5465.6	5398.8	5205.0	5056.8	4912.5	4877.7	4860.4	4797.6
20°	5862.4	5931.8	5925.1	5870.4	5790.2	5563.1	5353.3	5190.4	5152.9	5120.9	4988.6
22.5°	6212.4	6303.2	6283.2	6253.8	6220.4	5965.2	5720.7	5532.4	5504.3	5436.2	5227.8
25°	6599.8	6662.6	6647.9	6662.6	6639.9	6414.1	6146.9	5917.1	5879.7	5815.6	5496.3
27.5°	6975.2	7040.7	7066.1	7035.4	7050.1	6888.4	6571.8	6366.0	6330.0	6212.4	5819.6
30°	7314.6	7396.1	7432.2	7445.5	7494.9	7327.9	7094.1	6844.3	6832.3	6712.1	6245.8
32.5°	7585.8	7676.6	7764.8	7822.3	7901.1	7827.6	7595.1	7444.2	7445.5	7337.3	6885.7
35°	7782.2	7886.4	8014.6	8167.0	8332.6	8301.9	8164.3	8167.0	8188.3	8224.4	7702.0
37.5°	8000.0	8084.1	8235.1	8447.5	8700.0	8764.1	8745.4	8957.9	9062.1	9126.2	8419.5
40°	8129.5	8215.0	8403.4	8689.3	9056.7	9210.4	9382.7	9755.5	9891.7	9824.9	9032.7
42.5°	7986.6	8062.7	8390.1	8884.4	9349.3	9698.0	10006.6	10551.7	10650.6	10432.8	9549.7
45°	7800.9	7899.8	8244.4	8937.8	9608.5	10176.3	10655.9	11245.1	11318.6	11010.0	10006.6
47.5°	7648.6	7735.4	8137.6	8880.4	9847.6	10666.6	11226.4	11899.7	11918.4	11537.7	10479.6
50°	7453.5	7559.1	7978.6	8809.6	9991.9	11100.8	11748.8	12510.3	12551.7	12084.1	10880.4
52.5°	7249.1	7352.0	7786.2	8693.3	10096.1	11461.5	12291.2	13159.6	13163.6	12662.6	11307.9
55°	6947.2	7056.7	7537.7	8525.0	10128.2	11700.7	12836.3	13822.2	13863.6	13249.1	11695.3
57.5°	6627.9	6721.4	7238.4	8263.1	10009.3	11926.4	13396.0	14558.4	14671.9	13910.4	12028.0
60°	6204.4	6297.9	6844.3	7919.8	9756.8	12180.3	14037.3	15445.5	15457.5	14446.1	12269.8
62.5°	5748.8	5830.3	6332.6	7381.4	9365.3	12277.8	14587.8	16154.9	16153.5	14923.1	12390.0
65°	5207.7	5241.1	5752.8	6720.1	8757.5	12134.9	14830.9	16622.5	16577.1	15266.4	12350.0
67.5°	4566.4	4602.5	4990.0	5898.4	7875.7	11576.4	14722.7	16848.3	16893.7	15572.4	12176.3
70°	3754.2	3796.9	4134.9	4901.8	6752.1	10685.3	14468.9	16945.8	16984.5	15449.5	11640.5
72.5°	2770.9	2828.3	3035.4	3648.6	5124.9	8977.9	13293.2	15878.3	15899.7	14423.4	10525.0
75°	1720.8	1826.3	2021.4	2424.8	3325.3	6296.6	11362.7	14195.0	14061.4	12865.7	8709.4
77.5°	688.0	705.4	802.9	1135.6	1621.9	3278.5	8236.4	11283.8	11539.0	10293.9	6229.8
80°	400.8	398.1	420.8	529.1	696.1	1120.9	3203.7	6330.0	7055.4	5653.9	2802.9
82.5°	323.3	311.3	311.3	339.3	334.0	471.6	1050.1	1849.0	2028.0	1799.6	797.6
85°	169.7	165.7	134.9	167.0	167.0	235.1	403.5	523.7	553.1	482.3	299.3
87.5°	42.8	42.8	42.8	52.1	41.4	49.4	68.1	82.8	85.5	69.5	44.1
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°	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6
2.5°	4184.3	4196.4	4243.1	4236.4	4244.5	4244.5	4257.8	4272.5	4316.6	4291.2	4280.5
5°	4232.4	4256.5	4315.3	4336.6	4368.7	4372.7	4399.4	4408.8	4456.9	4430.2	4430.2
7.5°	4324.6	4352.7	4407.5	4415.5	4430.2	4404.8	4411.5	4382.1	4414.1	4382.1	4383.4
10°	4428.8	4447.5	4484.9	4431.5	4408.8	4348.7	4335.3	4263.2	4288.6	4247.1	4236.4
12.5°	4529.0	4522.4	4494.3	4399.4	4336.6	4237.8	4196.4	4098.8	4093.5	4038.7	4028.0
15°	4623.9	4577.1	4486.3	4339.3	4232.4	4094.8	3996.0	3889.1	3851.7	3788.9	3783.5
17.5°	4740.1	4660.0	4498.3	4281.9	4106.9	3906.5	3766.2	3645.9	3568.4	3511.0	3509.7
20°	4881.7	4758.8	4503.6	4216.4	3977.3	3720.8	3524.4	3372.1	3261.2	3189.0	3187.7
22.5°	5059.4	4892.4	4553.1	4141.6	3811.6	3496.3	3251.8	2988.6	2836.3	2689.4	2662.6
25°	5267.8	5027.4	4595.8	4102.8	3648.6	3262.5	2899.1	2514.3	2277.9	2160.3	2116.2
27.5°	5560.4	5251.8	4658.6	4029.4	3495.0	2973.9	2444.9	2025.4	1740.8	1640.6	1640.6
30°	5898.4	5535.0	4776.2	3985.3	3281.2	2569.1	1946.5	1496.3	1231.8	1080.8	1076.8
32.5°	6414.1	5873.0	4883.1	3890.4	3022.0	2128.2	1408.1	964.6	752.2	658.6	653.3
35°	7155.6	6517.0	5055.4	3795.6	2646.6	1584.5	893.8	553.1	428.9	375.4	372.7
37.5°	7869.0	7130.2	5426.8	3607.2	2113.5	995.3	495.7	319.3	261.9	255.2	252.5
40°	8371.4	7659.3	5688.7	3320.0	1501.7	527.7	287.2	231.1	227.1	224.4	223.1
42.5°	8919.1	8052.1	5874.4	2953.9	891.1	305.9	233.8	208.4	201.7	199.1	199.1
45°	9364.0	8430.1	5909.1	2430.2	448.9	252.5	213.8	189.7	181.7	187.0	188.4
47.5°	9774.2	8786.9	5791.5	1827.6	303.3	235.1	200.4	176.4	171.0	184.4	184.4
50°	10124.2	9088.8	5521.7	1364.1	284.6	221.8	187.0	163.0	161.7	173.7	175.0
52.5°	10472.9	9331.9	5096.8	1030.1	269.9	207.1	173.7	151.0	147.0	155.0	156.3
55°	10749.4	9418.8	4781.5	766.9	259.2	193.7	161.7	138.9	129.6	128.3	130.9
57.5°	10901.7	9342.6	4472.9	563.8	247.2	181.7	149.6	122.9	108.2	108.2	108.2
60°	10904.4	9250.4	4142.9	446.2	233.8	168.3	136.3	105.5	90.8	88.2	88.2
62.5°	10875.0	9086.1	3663.3	387.4	219.1	157.6	118.9	89.5	78.8	74.8	74.8
65°	10745.4	8776.2	3082.1	331.3	201.7	149.6	101.5	80.2	70.8	65.5	65.5
67.5°	10342.0	8195.0	2372.7	288.6	185.7	132.3	92.2	72.1	62.8	57.4	56.1
70°	9601.8	7255.8	1565.8	245.8	169.7	117.6	84.2	65.5	56.1	50.8	49.4
72.5°	8360.7	5905.1	786.9	208.4	145.6	108.2	76.2	57.4	48.1	42.8	42.8
75°	6551.7	4098.8	428.9	165.7	114.9	94.9	66.8	48.1	41.4	37.4	37.4
77.5°	4017.3	2032.1	292.6	128.3	86.8	77.5	53.4	40.1	36.1	34.7	34.7
80°	1465.6	665.3	196.4	90.8	65.5	60.1	42.8	34.7	33.4	33.4	33.4
82.5°	529.1	338.0	132.3	61.5	41.4	45.4	34.7	29.4	28.1	29.4	30.7
85°	217.8	148.3	48.1	34.7	22.7	24.0	21.4	20.0	21.4	22.7	22.7
87.5°	33.4	29.4	17.4	17.4	13.4	12.0	9.4	10.7	13.4	16.0	16.0
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)