

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: P510078

Luminaire Tested: **VERD-M-CA4-200-730-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510078
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-CA4-200-730-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 910mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26380 lumens
Efficiency: N/A
Efficacy: 130.7 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

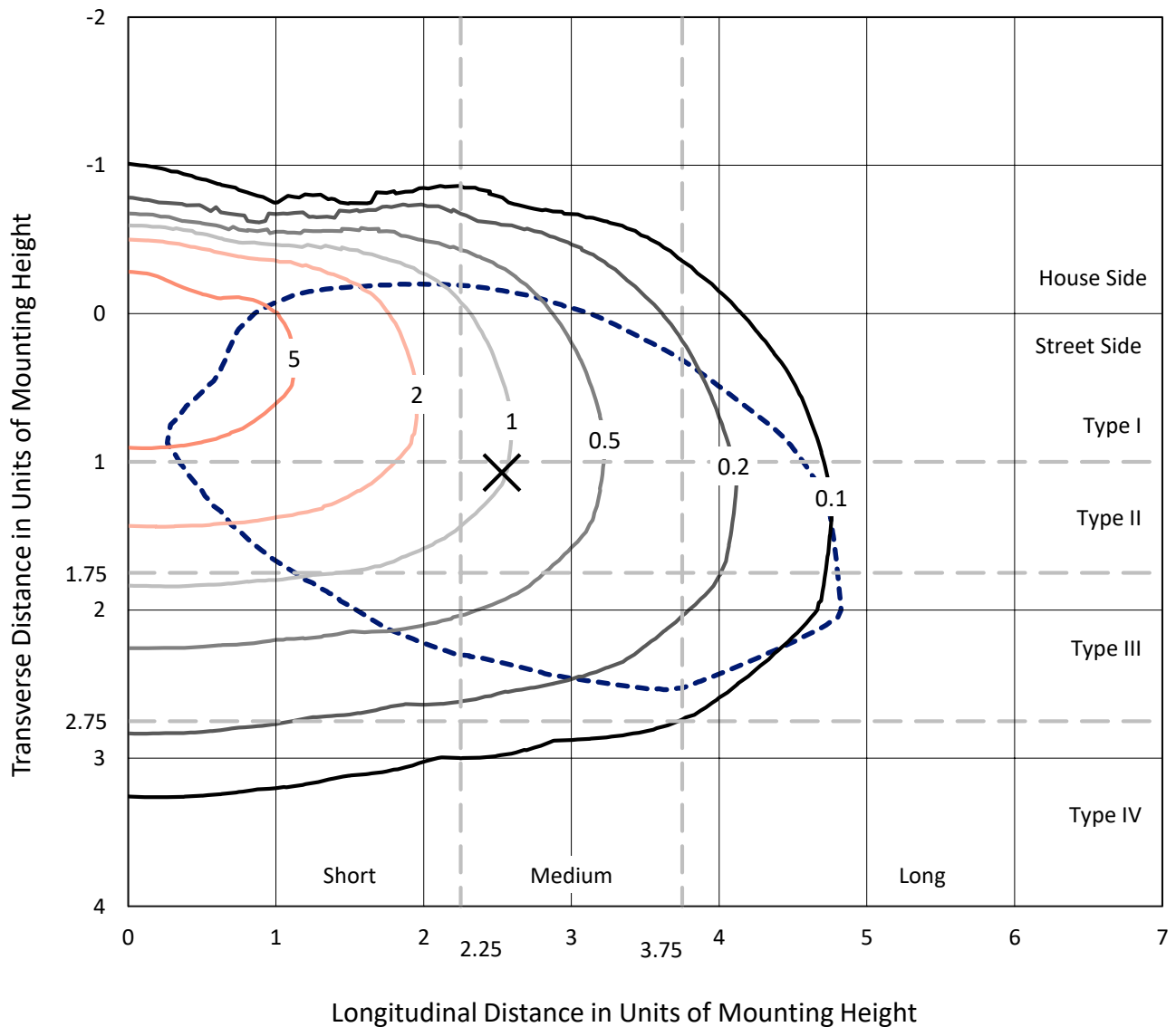
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

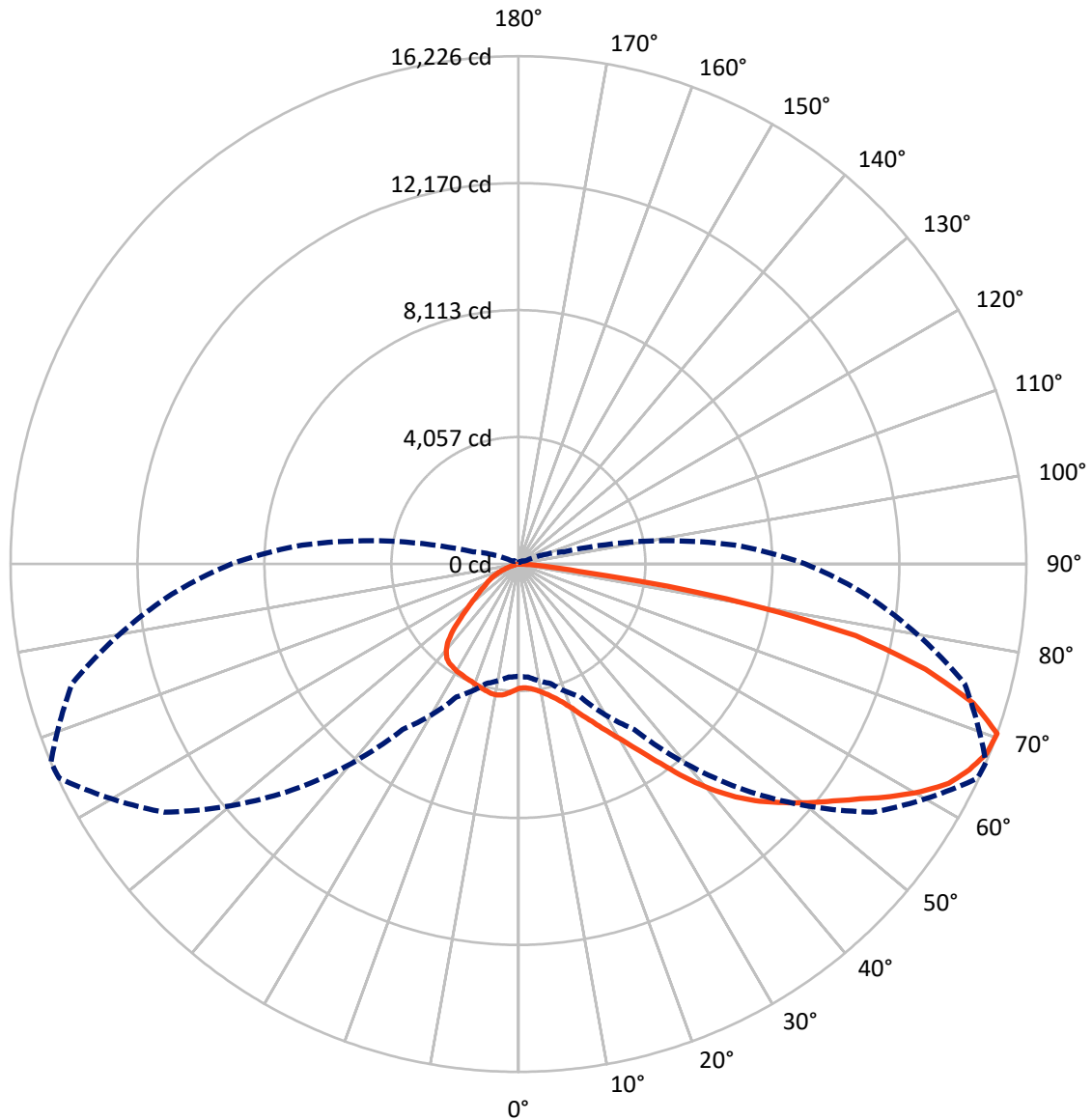
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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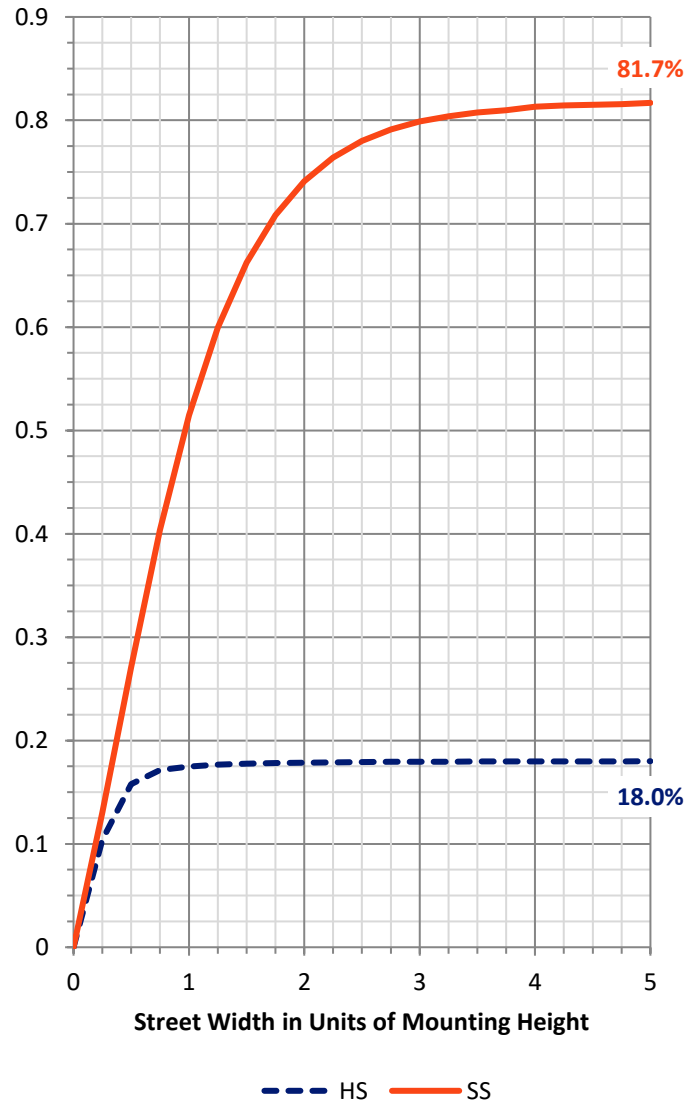
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4806.6	0.0	4806.6
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	21573.4	0.0	21573.4
	% Fixture	81.8	0.0	81.8
Total	Lumens	26380.0	0.0	26380.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.3	1.5
10°-20°	1233.4	4.7
20°-30°	2140.0	8.1
30°-40°	3178.4	12.0
40°-50°	4360.5	16.5
50°-60°	5355.0	20.3
60°-70°	5741.1	21.8
70°-80°	3644.5	13.8
80°-90°	331.7	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°	26380.0	100.0
0°-180°	26380.0	100.0



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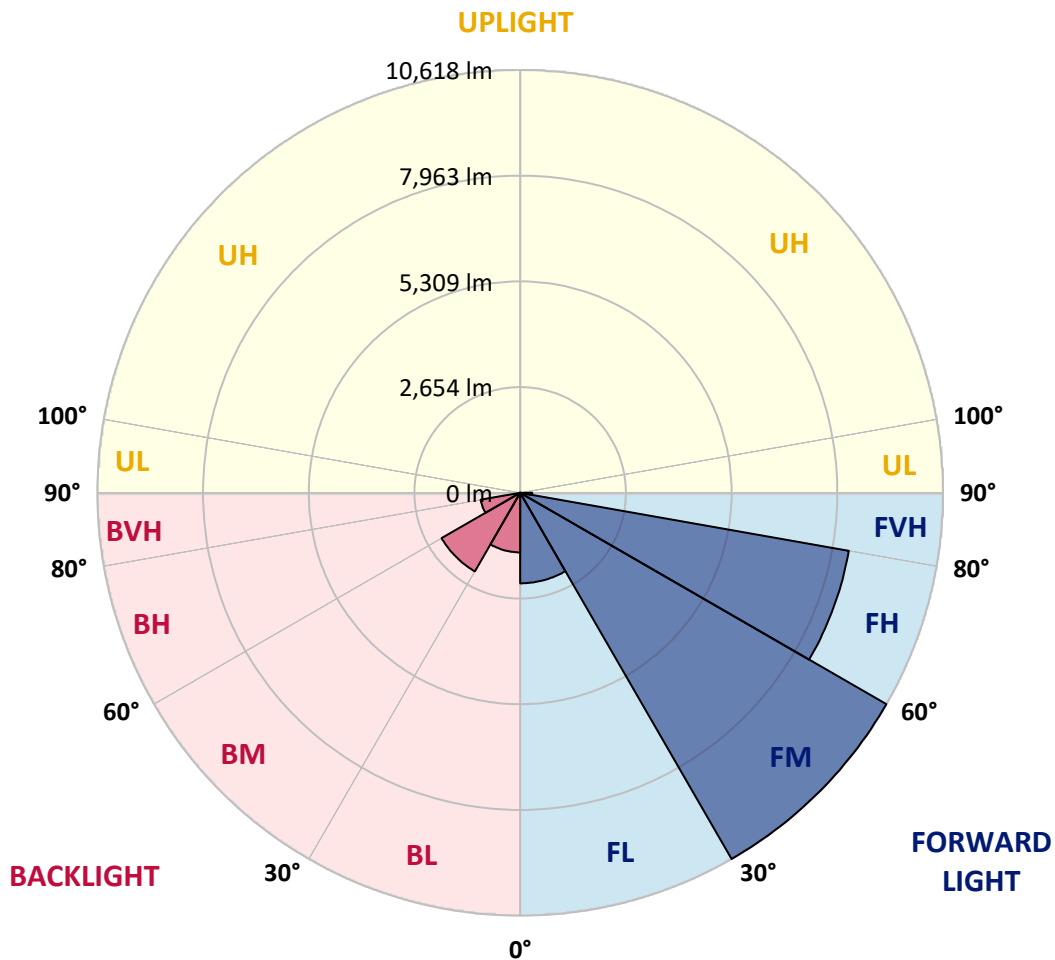
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2272.9	8.6			
FM	(30°-60°)	10617.7	40.2			
FH	(60°-80°)	8380.3	31.8			G4/12000
FVH	(80°-90°)	302.5	1.1			G3/500
BL	(0°-30°)	1495.9	5.7	B3/2500		
BM	(30°-60°)	2276.2	8.6	B2/2500		
BH	(60°-80°)	1005.4	3.8	B3/2500		G3/2500
BVH	(80°-90°)	29.1	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°	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1
2.5°	3932.4	3969.4	3947.7	3945.2	3970.7	3946.4	3963.0	3959.2	3956.7	3960.5	3987.3
5°	4035.8	4079.2	4049.8	4040.9	4054.9	4011.5	4007.7	3998.8	3996.2	3997.5	4035.8
7.5°	4180.0	4231.1	4219.6	4196.6	4189.0	4117.5	4104.7	4072.8	4062.6	4065.1	4103.4
10°	4407.2	4458.3	4435.3	4384.2	4352.3	4270.6	4224.7	4183.8	4163.4	4166.0	4206.8
12.5°	4698.2	4746.7	4708.4	4615.3	4597.4	4465.9	4394.4	4307.7	4293.6	4273.2	4316.6
15°	4972.6	5014.7	4996.9	4910.1	4861.6	4705.9	4574.4	4467.2	4454.4	4435.3	4434.0
17.5°	5276.4	5318.5	5285.3	5221.5	5157.7	4972.6	4831.0	4693.1	4659.9	4643.3	4583.3
20°	5600.6	5667.0	5660.6	5608.2	5531.7	5314.7	5114.3	4958.6	4922.8	4892.2	4765.9
22.5°	5935.0	6021.8	6002.6	5974.6	5942.6	5698.9	5465.3	5285.3	5258.5	5193.4	4994.3
25°	6305.1	6365.1	6351.1	6365.1	6343.4	6127.7	5872.4	5652.9	5617.2	5555.9	5250.9
27.5°	6663.8	6726.3	6750.6	6721.2	6735.3	6580.8	6278.3	6081.8	6047.3	5935.0	5559.7
30°	6988.0	7065.8	7100.3	7113.1	7160.3	7000.7	6777.4	6538.7	6527.2	6412.3	5966.9
32.5°	7247.1	7333.9	7418.1	7473.0	7548.3	7478.1	7256.0	7111.8	7113.1	7009.7	6578.3
35°	7434.7	7534.2	7656.8	7802.3	7960.5	7931.2	7799.7	7802.3	7822.7	7857.2	7358.1
37.5°	7642.7	7723.1	7867.4	8070.3	8311.5	8372.8	8354.9	8557.9	8657.4	8718.7	8043.5
40°	7766.5	7848.2	8028.2	8301.3	8652.3	8799.1	8963.7	9319.8	9450.0	9386.2	8629.3
42.5°	7630.0	7702.7	8015.4	8487.7	8931.8	9265.0	9559.8	10080.5	10175.0	9966.9	9123.3
45°	7452.6	7547.0	7876.3	8538.7	9179.4	9721.9	10180.1	10743.0	10813.2	10518.3	9559.8
47.5°	7307.1	7390.0	7774.2	8483.8	9407.9	10190.3	10725.1	11368.4	11386.2	11022.5	10011.6
50°	7120.7	7221.5	7622.3	8416.2	9545.8	10605.1	11224.1	11951.7	11991.2	11544.5	10394.5
52.5°	6925.4	7023.7	7438.5	8305.2	9645.3	10949.7	11742.3	12572.0	12575.8	12097.2	10803.0
55°	6637.0	6741.6	7201.1	8144.3	9675.9	11178.2	12263.1	13205.0	13244.6	12657.5	11173.1
57.5°	6331.9	6421.3	6915.2	7894.2	9562.3	11393.9	12797.9	13908.3	14016.8	13289.3	11490.9
60°	5927.3	6016.7	6538.7	7566.2	9321.1	11636.4	13410.5	14755.8	14767.3	13801.1	11721.9
62.5°	5492.1	5570.0	6049.9	7051.8	8947.2	11729.6	13936.4	15433.5	15432.2	14256.7	11836.8
65°	4975.2	5007.1	5495.9	6420.0	8366.4	11593.0	14168.7	15880.2	15836.8	14584.8	11798.5
67.5°	4362.5	4397.0	4767.1	5635.0	7524.0	11059.5	14065.3	16095.9	16139.3	14877.0	11632.6
70°	3586.5	3627.4	3950.3	4682.9	6450.6	10208.2	13822.8	16189.1	16226.1	14759.6	11120.8
72.5°	2647.1	2702.0	2899.8	3485.7	4896.0	8577.0	12699.6	15169.3	15189.7	13779.4	10055.0
75°	1643.9	1744.8	1931.1	2316.6	3176.8	6015.4	10855.3	13561.1	13433.5	12291.2	8320.5
77.5°	657.3	673.9	767.1	1084.9	1549.5	3132.1	7868.6	10780.0	11023.8	9834.2	5951.6
80°	382.9	380.3	402.0	505.4	665.0	1070.9	3060.7	6047.3	6740.4	5401.5	2677.8
82.5°	308.9	297.4	297.4	324.2	319.1	450.5	1003.2	1766.5	1937.5	1719.2	762.0
85°	162.1	158.3	128.9	159.5	159.5	224.6	385.5	500.3	528.4	460.8	285.9
87.5°	40.8	40.8	40.8	49.8	39.6	47.2	65.1	79.1	81.7	66.4	42.1
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°	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1
2.5°	3997.5	4009.0	4053.7	4047.3	4054.9	4054.9	4067.7	4081.7	4123.9	4099.6	4089.4
5°	4043.4	4066.4	4122.6	4143.0	4173.6	4177.5	4203.0	4211.9	4257.9	4232.3	4232.3
7.5°	4131.5	4158.3	4210.7	4218.3	4232.3	4208.1	4214.5	4186.4	4217.0	4186.4	4187.7
10°	4231.1	4248.9	4284.7	4233.6	4211.9	4154.5	4141.7	4072.8	4097.1	4057.5	4047.3
12.5°	4326.8	4320.4	4293.6	4203.0	4143.0	4048.6	4009.0	3915.8	3910.7	3858.4	3848.2
15°	4417.4	4372.7	4286.0	4145.6	4043.4	3912.0	3817.5	3715.4	3679.7	3619.7	3614.6
17.5°	4528.5	4451.9	4297.4	4090.7	3923.5	3732.0	3598.0	3483.1	3409.1	3354.2	3352.9
20°	4663.8	4546.3	4302.5	4028.1	3799.7	3554.6	3367.0	3221.5	3115.5	3046.6	3045.4
22.5°	4833.5	4674.0	4349.8	3956.7	3641.4	3340.2	3106.6	2855.2	2709.7	2569.3	2543.7
25°	5032.6	4802.9	4390.6	3919.6	3485.7	3116.8	2769.7	2402.1	2176.2	2063.8	2021.7
27.5°	5312.1	5017.3	4450.6	3849.4	3338.9	2841.1	2335.7	1934.9	1663.1	1567.3	1567.3
30°	5635.0	5287.9	4562.9	3807.3	3134.7	2454.4	1859.6	1429.5	1176.8	1032.6	1028.7
32.5°	6127.7	5610.8	4665.0	3716.7	2887.1	2033.2	1345.3	921.5	718.6	629.2	624.1
35°	6836.1	6226.0	4829.7	3626.1	2528.4	1513.7	853.9	528.4	409.7	358.7	356.1
37.5°	7517.7	6811.8	5184.5	3446.1	2019.2	950.9	473.5	305.0	250.2	243.8	241.2
40°	7997.6	7317.3	5434.7	3171.7	1434.6	504.2	274.4	220.8	217.0	214.4	213.1
42.5°	8520.9	7692.5	5612.1	2822.0	851.3	292.3	223.4	199.1	192.7	190.2	190.2
45°	8945.9	8053.7	5645.3	2321.7	428.9	241.2	204.2	181.2	173.6	178.7	180.0
47.5°	9337.7	8394.5	5532.9	1746.0	289.7	224.6	191.5	168.5	163.4	176.1	176.1
50°	9672.1	8683.0	5275.1	1303.1	271.9	211.9	178.7	155.7	154.4	165.9	167.2
52.5°	10005.2	8915.2	4869.2	984.1	257.8	197.8	165.9	144.2	140.4	148.1	149.3
55°	10269.4	8998.2	4568.0	732.6	247.6	185.1	154.4	132.7	123.8	122.5	125.1
57.5°	10414.9	8925.5	4273.2	538.6	236.1	173.6	143.0	117.4	103.4	103.4	103.4
60°	10417.5	8837.4	3957.9	426.3	223.4	160.8	130.2	100.8	86.8	84.2	84.2
62.5°	10389.4	8680.4	3499.7	370.1	209.3	150.6	113.6	85.5	75.3	71.5	71.5
65°	10265.6	8384.3	2944.5	316.5	192.7	143.0	97.0	76.6	67.6	62.5	62.5
67.5°	9880.2	7829.1	2266.8	275.7	177.4	126.4	88.1	68.9	60.0	54.9	53.6
70°	9173.1	6931.8	1495.9	234.8	162.1	112.3	80.4	62.5	53.6	48.5	47.2
72.5°	7987.3	5641.4	751.8	199.1	139.1	103.4	72.8	54.9	45.9	40.8	40.8
75°	6259.2	3915.8	409.7	158.3	109.8	90.6	63.8	45.9	39.6	35.7	35.7
77.5°	3838.0	1941.3	279.5	122.5	83.0	74.0	51.1	38.3	34.5	33.2	33.2
80°	1400.1	635.6	187.6	86.8	62.5	57.4	40.8	33.2	31.9	31.9	31.9
82.5°	505.4	322.9	126.4	58.7	39.6	43.4	33.2	28.1	26.8	28.1	29.4
85°	208.0	141.7	45.9	33.2	21.7	23.0	20.4	19.1	20.4	21.7	21.7
87.5°	31.9	28.1	16.6	16.6	12.8	11.5	8.9	10.2	12.8	15.3	15.3
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)