

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: P509982

Luminaire Tested: **VERD-M-CA3-180-730-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509982
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-CA3-180-730-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23399 lumens
Efficiency: N/A
Efficacy: 127.8 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

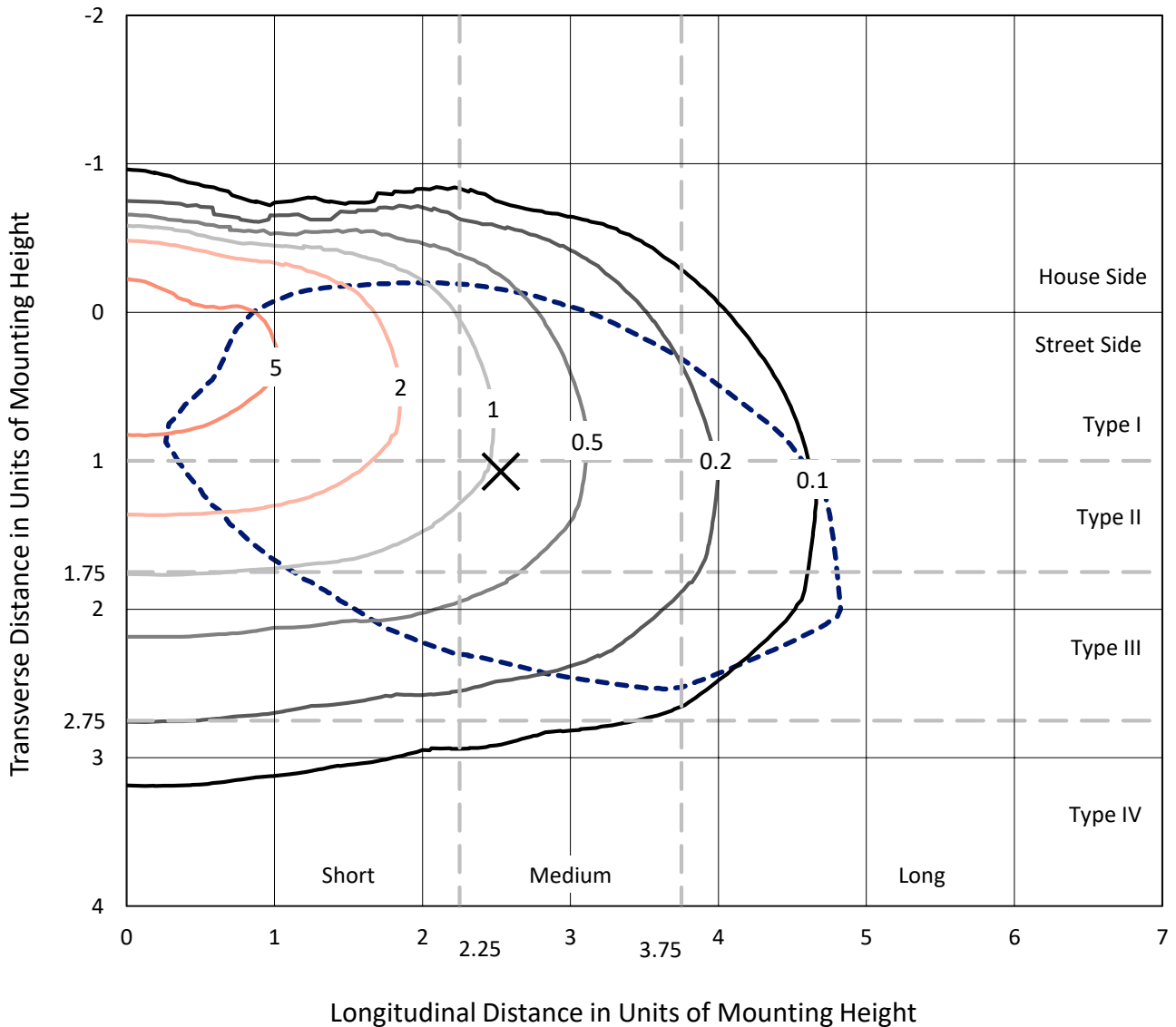
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

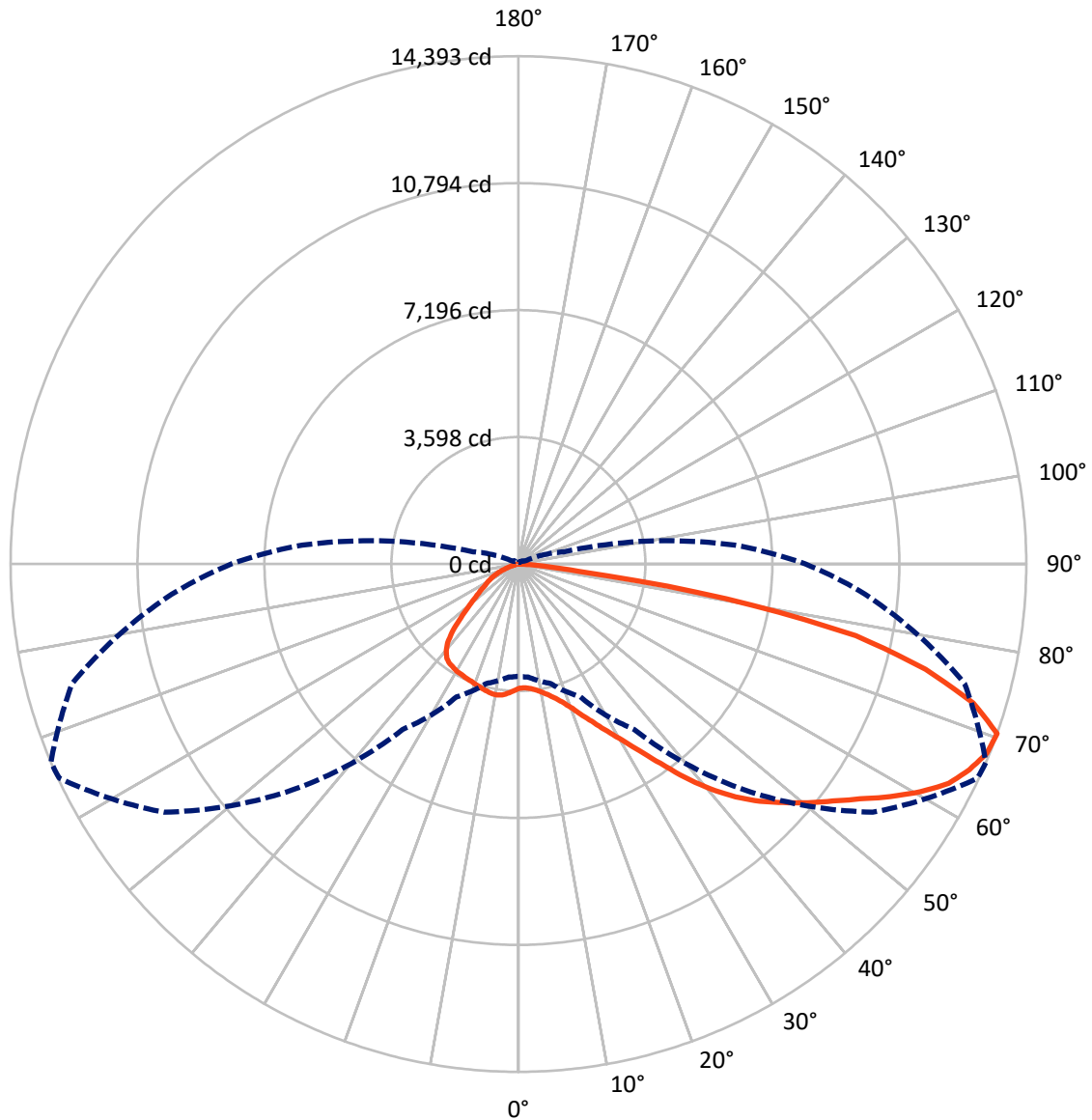
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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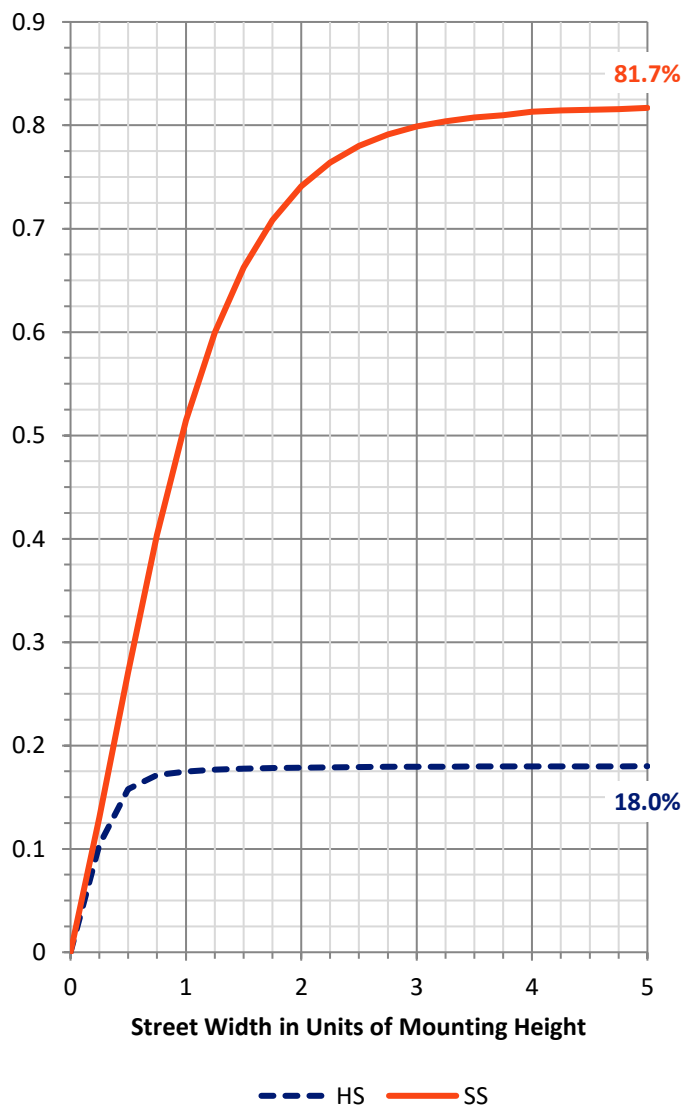
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4263.5	0.0	4263.5
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	19135.5	0.0	19135.5
	% Fixture	81.8	0.0	81.8
Total	Lumens	23399.0	0.0	23399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.7	1.5
10°-20°	1094.0	4.7
20°-30°	1898.2	8.1
30°-40°	2819.2	12.0
40°-50°	3867.8	16.5
50°-60°	4749.9	20.3
60°-70°	5092.4	21.8
70°-80°	3232.7	13.8
80°-90°	294.2	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°	23399.0	100.0
0°-180°	23399.0	100.0

Coefficient of Utilization



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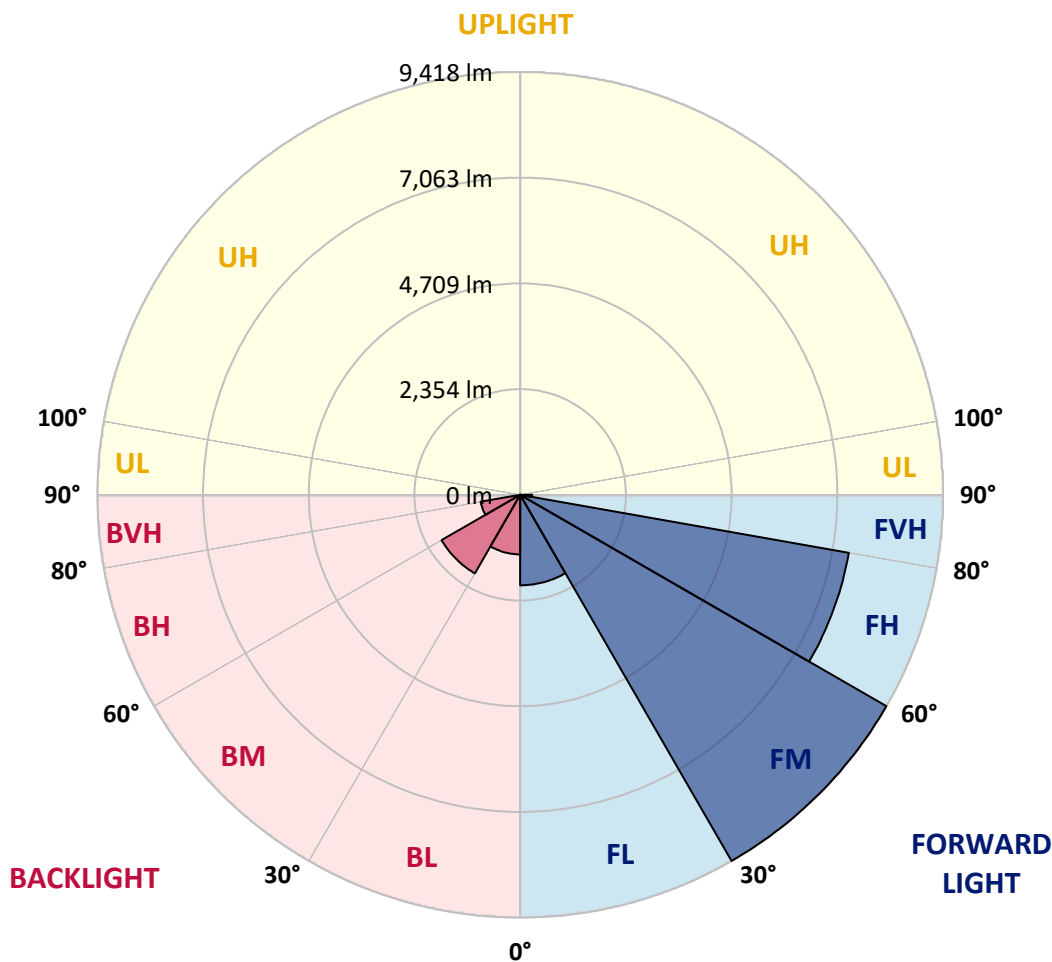
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2016.0	8.6			
FM (30°-60°)	9417.9	40.2			
FH (60°-80°)	7433.3	31.8			G3/7500
FVH (80°-90°)	268.3	1.1			G3/500
BL (0°-30°)	1326.9	5.7	B3/2500		
BM (30°-60°)	2019.0	8.6	B2/2500		
BH (60°-80°)	891.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	25.9	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°	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7
2.5°	3488.0	3520.9	3501.6	3499.4	3522.0	3500.5	3515.2	3511.8	3509.5	3512.9	3536.7
5°	3579.7	3618.2	3592.2	3584.3	3596.7	3558.2	3554.8	3546.9	3544.6	3545.8	3579.7
7.5°	3707.7	3753.0	3742.8	3722.4	3715.6	3652.2	3640.9	3612.6	3603.5	3605.8	3639.7
10°	3909.2	3954.5	3934.1	3888.8	3860.5	3788.0	3747.3	3711.1	3692.9	3695.2	3731.4
12.5°	4167.3	4210.3	4176.4	4093.7	4077.9	3961.3	3897.9	3820.9	3808.4	3790.3	3828.8
15°	4410.7	4448.1	4432.2	4355.2	4312.2	4174.1	4057.5	3962.4	3951.1	3934.1	3933.0
17.5°	4680.2	4717.5	4688.1	4631.5	4574.9	4410.7	4285.0	4162.8	4133.3	4118.6	4065.4
20°	4967.7	5026.6	5020.9	4974.5	4906.6	4714.1	4536.4	4398.3	4366.6	4339.4	4227.3
22.5°	5264.3	5341.3	5324.3	5299.4	5271.1	5054.9	4847.7	4688.1	4664.3	4606.6	4430.0
25°	5592.6	5645.8	5633.4	5645.8	5626.6	5435.3	5208.8	5014.1	4982.4	4928.1	4657.5
27.5°	5910.8	5966.2	5987.7	5961.7	5974.2	5837.2	5568.9	5394.5	5363.9	5264.3	4931.5
30°	6198.3	6267.4	6297.9	6309.3	6351.1	6209.6	6011.5	5799.8	5789.6	5687.7	5292.6
32.5°	6428.1	6505.1	6579.8	6628.5	6695.3	6633.0	6436.1	6308.1	6309.3	6217.6	5834.9
35°	6594.6	6682.9	6791.5	6920.6	7061.0	7034.9	6918.3	6920.6	6938.7	6969.3	6526.6
37.5°	6779.1	6850.4	6978.3	7158.3	7372.3	7426.7	7410.8	7590.8	7679.1	7733.5	7134.6
40°	6888.9	6961.4	7121.0	7363.3	7674.6	7804.8	7950.8	8266.7	8382.2	8325.6	7654.2
42.5°	6767.8	6832.3	7109.7	7528.5	7922.5	8218.0	8479.5	8941.4	9025.2	8840.7	8092.3
45°	6610.4	6694.2	6986.3	7573.8	8142.1	8623.3	9029.7	9529.0	9591.3	9329.7	8479.5
47.5°	6481.3	6554.9	6895.7	7525.1	8344.8	9038.8	9513.1	10083.7	10099.6	9776.9	8880.3
50°	6316.1	6405.5	6761.0	7465.1	8467.1	9406.7	9955.8	10601.1	10636.2	10240.0	9219.9
52.5°	6142.8	6230.0	6597.9	7366.7	8555.4	9712.4	10415.4	11151.3	11154.7	10730.2	9582.2
55°	5887.0	5979.8	6387.4	7224.0	8582.5	9915.0	10877.3	11712.8	11747.9	11227.2	9910.5
57.5°	5616.4	5695.7	6133.8	7002.1	8481.8	10106.4	11351.7	12336.6	12432.9	11787.5	10192.4
60°	5257.5	5336.8	5799.8	6711.2	8267.8	10321.5	11895.1	13088.3	13098.5	12241.5	10397.3
62.5°	4871.5	4940.5	5366.2	6254.9	7936.1	10404.1	12361.5	13689.5	13688.4	12645.7	10499.2
65°	4413.0	4441.3	4874.9	5694.5	7421.0	10283.0	12567.6	14085.7	14047.2	12936.6	10465.2
67.5°	3869.6	3900.1	4228.4	4998.3	6673.8	9809.7	12475.9	14277.1	14315.6	13195.9	10318.1
70°	3181.2	3217.5	3503.9	4153.7	5721.7	9054.6	12260.8	14359.7	14392.5	13091.7	9864.1
72.5°	2348.0	2396.7	2572.2	3091.8	4342.8	7607.8	11264.5	13455.1	13473.3	12222.3	8918.8
75°	1458.2	1547.6	1712.9	2054.8	2817.8	5335.6	9628.6	12028.7	11915.5	10902.2	7380.2
77.5°	583.0	597.8	680.4	962.3	1374.4	2778.2	6979.5	9561.8	9778.1	8722.9	5279.0
80°	339.6	337.4	356.6	448.3	589.8	949.8	2714.8	5363.9	5978.7	4791.1	2375.2
82.5°	274.0	263.8	263.8	287.6	283.0	399.6	889.8	1566.8	1718.5	1525.0	675.9
85°	143.8	140.4	114.3	141.5	141.5	199.3	341.9	443.8	468.7	408.7	253.6
87.5°	36.2	36.2	36.2	44.2	35.1	41.9	57.7	70.2	72.5	58.9	37.4
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°	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7
2.5°	3545.8	3556.0	3595.6	3589.9	3596.7	3596.7	3608.0	3620.5	3657.9	3636.3	3627.3
5°	3586.5	3606.9	3656.7	3674.8	3702.0	3705.4	3728.0	3736.0	3776.7	3754.1	3754.1
7.5°	3664.6	3688.4	3734.8	3741.6	3754.1	3732.6	3738.2	3713.3	3740.5	3713.3	3714.5
10°	3753.0	3768.8	3800.5	3755.2	3736.0	3685.0	3673.7	3612.6	3634.1	3599.0	3589.9
12.5°	3837.9	3832.2	3808.4	3728.0	3674.8	3591.1	3556.0	3473.3	3468.8	3422.4	3413.3
15°	3918.2	3878.6	3801.6	3677.1	3586.5	3469.9	3386.1	3295.6	3263.9	3210.7	3206.1
17.5°	4016.7	3948.8	3811.8	3628.4	3480.1	3310.3	3191.4	3089.5	3023.9	2975.2	2974.1
20°	4136.7	4032.6	3816.3	3572.9	3370.3	3152.9	2986.5	2857.5	2763.5	2702.4	2701.2
22.5°	4287.3	4145.8	3858.2	3509.5	3229.9	2962.7	2755.6	2532.5	2403.5	2278.9	2256.3
25°	4463.9	4260.1	3894.5	3476.7	3091.8	2764.6	2456.7	2130.6	1930.3	1830.6	1793.3
27.5°	4711.8	4450.3	3947.7	3414.4	2961.6	2520.1	2071.8	1716.3	1475.1	1390.2	1390.2
30°	4998.3	4690.3	4047.3	3377.1	2780.5	2177.1	1649.5	1268.0	1043.8	915.9	912.5
32.5°	5435.3	4976.8	4137.9	3296.7	2560.8	1803.5	1193.2	817.4	637.4	558.1	553.6
35°	6063.6	5522.4	4283.9	3216.3	2242.7	1342.7	757.4	468.7	363.4	318.1	315.9
37.5°	6668.1	6042.1	4598.6	3056.7	1791.0	843.4	420.0	270.6	221.9	216.2	214.0
40°	7093.8	6490.4	4820.5	2813.3	1272.5	447.2	243.4	195.9	192.5	190.2	189.1
42.5°	7558.0	6823.2	4977.9	2503.1	755.1	259.3	198.1	176.6	170.9	168.7	168.7
45°	7935.0	7143.6	5007.3	2059.3	380.4	214.0	181.1	160.8	154.0	158.5	159.6
47.5°	8282.5	7445.9	4907.7	1548.7	257.0	199.3	169.8	149.4	144.9	156.2	156.2
50°	8579.1	7701.8	4679.0	1155.9	241.1	187.9	158.5	138.1	137.0	147.2	148.3
52.5°	8874.6	7907.8	4319.0	872.9	228.7	175.5	147.2	127.9	124.5	131.3	132.5
55°	9109.0	7981.4	4051.8	649.8	219.6	164.2	137.0	117.7	109.8	108.7	110.9
57.5°	9238.0	7916.9	3790.3	477.8	209.4	154.0	126.8	104.2	91.7	91.7	91.7
60°	9240.3	7838.7	3510.7	378.1	198.1	142.6	115.5	89.4	77.0	74.7	74.7
62.5°	9215.4	7699.5	3104.3	328.3	185.7	133.6	100.8	75.9	66.8	63.4	63.4
65°	9105.6	7436.8	2611.8	280.8	170.9	126.8	86.0	67.9	60.0	55.5	55.5
67.5°	8763.7	6944.4	2010.6	244.5	157.4	112.1	78.1	61.1	53.2	48.7	47.5
70°	8136.5	6148.5	1326.8	208.3	143.8	99.6	71.3	55.5	47.5	43.0	41.9
72.5°	7084.8	5003.9	666.8	176.6	123.4	91.7	64.5	48.7	40.8	36.2	36.2
75°	5551.9	3473.3	363.4	140.4	97.4	80.4	56.6	40.8	35.1	31.7	31.7
77.5°	3404.3	1721.9	247.9	108.7	73.6	65.7	45.3	34.0	30.6	29.4	29.4
80°	1241.9	563.8	166.4	77.0	55.5	50.9	36.2	29.4	28.3	28.3	28.3
82.5°	448.3	286.4	112.1	52.1	35.1	38.5	29.4	24.9	23.8	24.9	26.0
85°	184.5	125.7	40.8	29.4	19.2	20.4	18.1	17.0	18.1	19.2	19.2
87.5°	28.3	24.9	14.7	14.7	11.3	10.2	7.9	9.1	11.3	13.6	13.6
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)