

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: P510030

Luminaire Tested: **VERD-M-CA4-190-730-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510030
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-CA4-190-730-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 870mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25354 lumens
Efficiency: N/A
Efficacy: 131.3 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

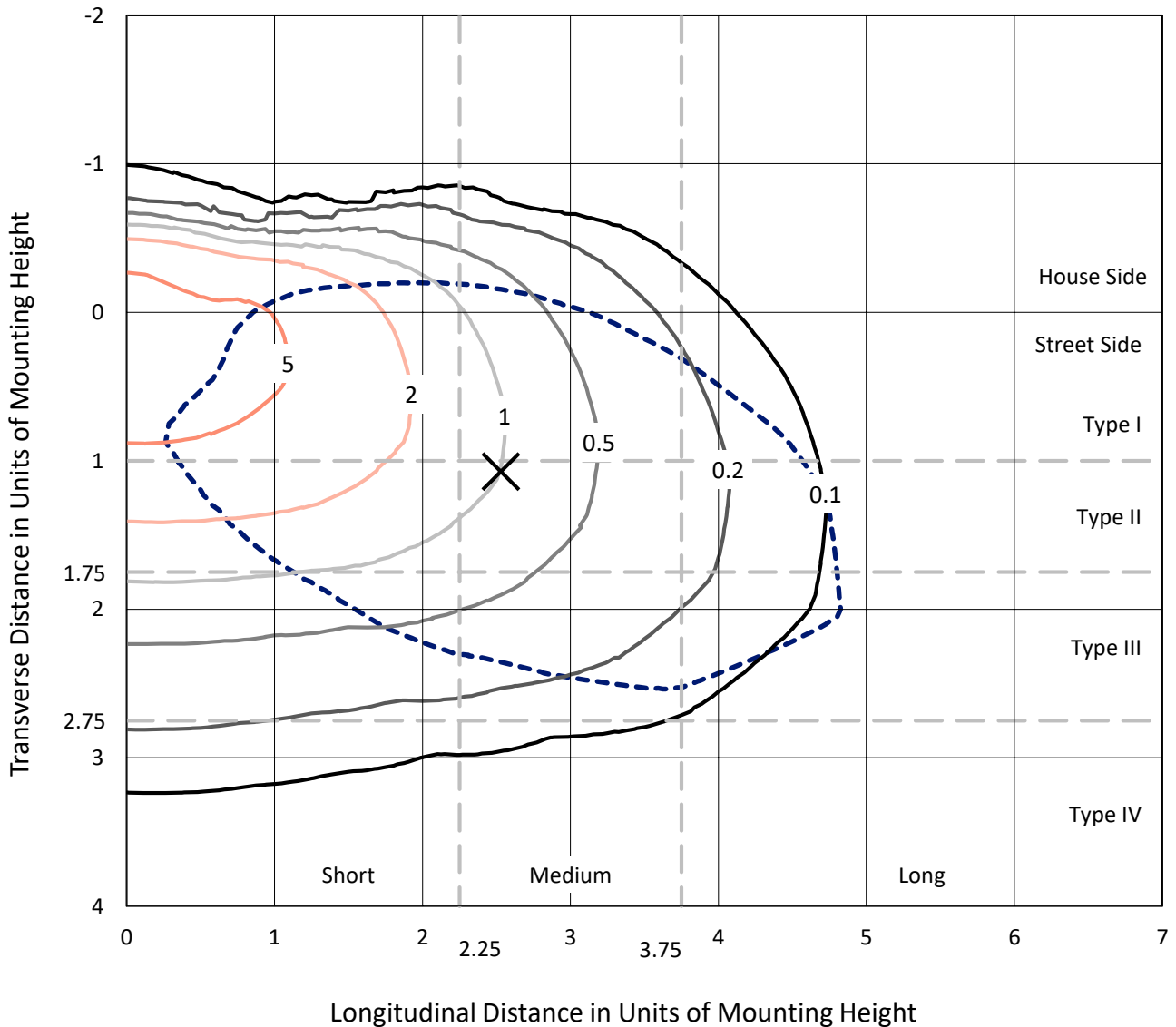
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

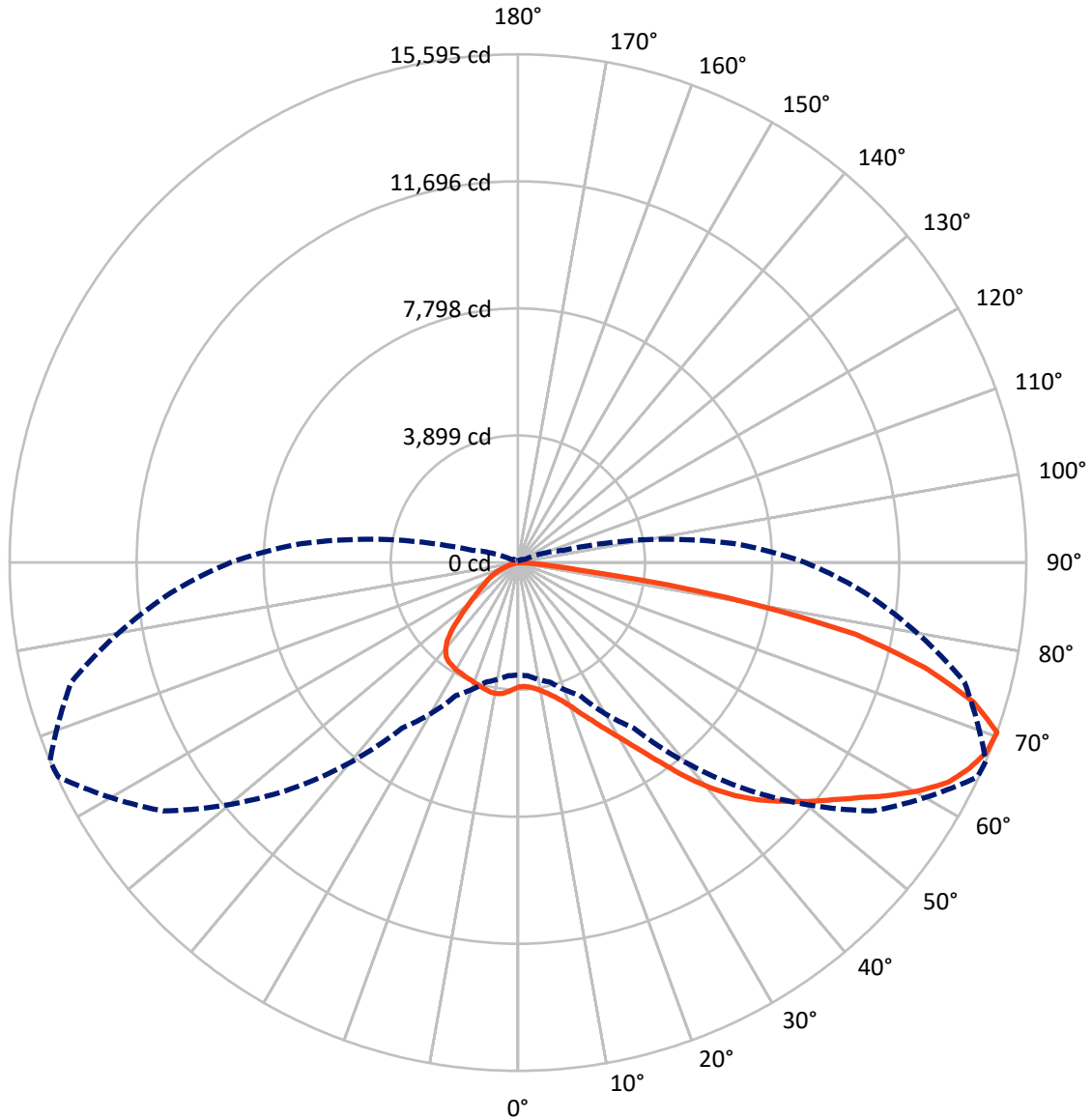
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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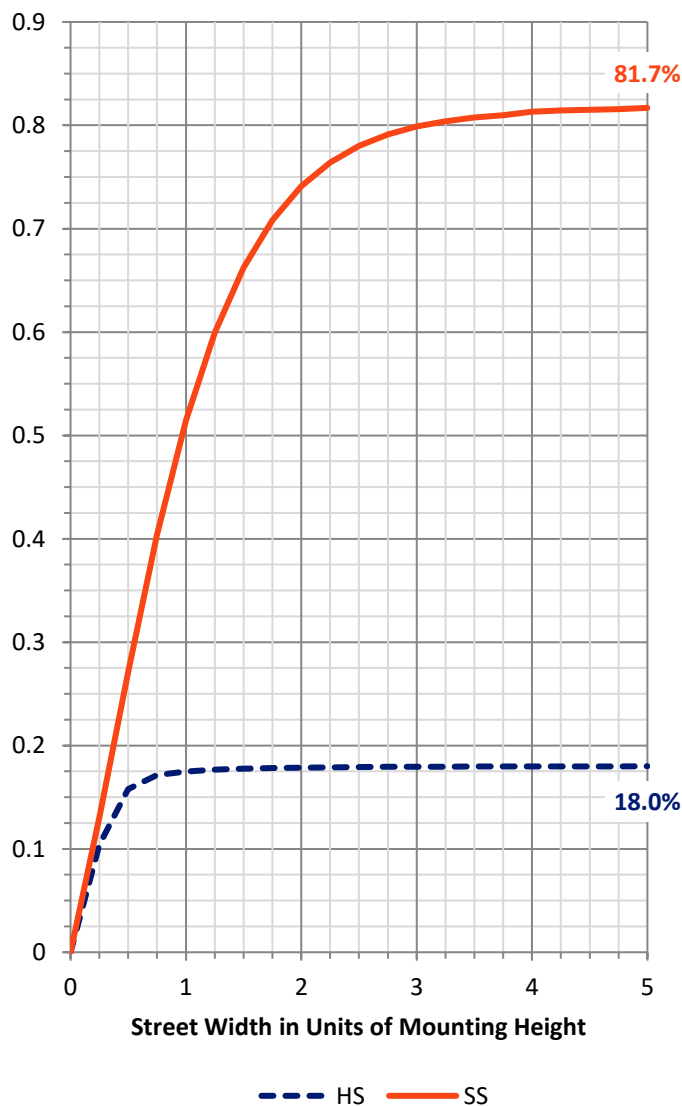
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4619.7	0.0	4619.7
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	20734.3	0.0	20734.3
	% Fixture	81.8	0.0	81.8
Total	Lumens	25354.0	0.0	25354.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.0	1.5
10°-20°	1185.4	4.7
20°-30°	2056.8	8.1
30°-40°	3054.8	12.0
40°-50°	4190.9	16.5
50°-60°	5146.7	20.3
60°-70°	5517.8	21.8
70°-80°	3502.8	13.8
80°-90°	318.8	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°	25354.0	100.0
0°-180°	25354.0	100.0



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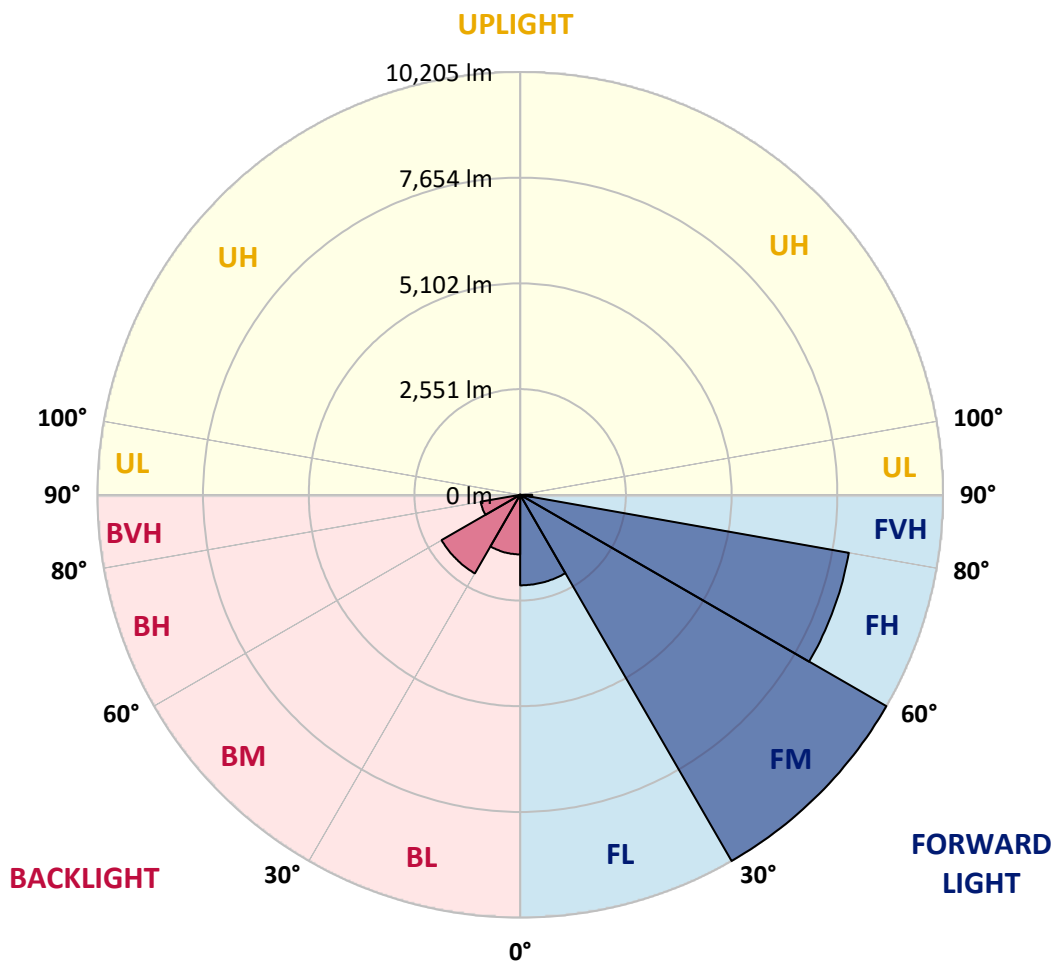
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2184.5	8.6			
FM	(30°-60°)	10204.7	40.2			
FH	(60°-80°)	8054.4	31.8			G4/12000
FVH	(80°-90°)	290.8	1.1			G3/500
BL	(0°-30°)	1437.7	5.7	B3/2500		
BM	(30°-60°)	2187.7	8.6	B2/2500		
BH	(60°-80°)	966.3	3.8	B2/1000		G2/1000
BVH	(80°-90°)	28.0	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°	3813.8	3813.8	3813.8	3813.8	3813.8	3813.8	3813.8	3813.8	3813.8	3813.8	3813.8
2.5°	3779.5	3815.0	3794.2	3791.7	3816.3	3793.0	3808.9	3805.2	3802.8	3806.5	3832.2
5°	3878.8	3920.5	3892.3	3883.7	3897.2	3855.5	3851.8	3843.3	3840.8	3842.0	3878.8
7.5°	4017.4	4066.5	4055.5	4033.4	4026.0	3957.3	3945.1	3914.4	3904.6	3907.0	3943.8
10°	4235.8	4284.9	4262.8	4213.7	4183.0	4104.5	4060.4	4021.1	4001.5	4004.0	4043.2
12.5°	4515.5	4562.1	4525.3	4435.7	4418.6	4292.2	4223.5	4140.1	4126.6	4107.0	4148.7
15°	4779.2	4819.7	4802.5	4719.1	4672.5	4522.8	4396.5	4293.5	4281.2	4262.8	4261.6
17.5°	5071.2	5111.7	5079.8	5018.4	4957.1	4779.2	4643.1	4510.6	4478.7	4462.7	4405.1
20°	5382.8	5446.6	5440.4	5390.1	5316.5	5108.0	4915.4	4765.7	4731.4	4701.9	4580.5
22.5°	5704.2	5787.6	5769.2	5742.2	5711.5	5477.2	5252.7	5079.8	5054.0	4991.4	4800.1
25°	6059.9	6117.6	6104.1	6117.6	6096.7	5889.4	5644.0	5433.1	5398.7	5339.8	5046.6
27.5°	6404.6	6464.7	6488.0	6459.8	6473.3	6324.9	6034.1	5845.2	5812.1	5704.2	5343.5
30°	6716.2	6791.0	6824.1	6836.4	6881.8	6728.5	6513.8	6284.4	6273.3	6162.9	5734.8
32.5°	6965.2	7048.6	7129.6	7182.3	7254.7	7187.2	6973.8	6835.2	6836.4	6737.0	6322.4
35°	7145.5	7241.2	7359.0	7498.8	7650.9	7622.7	7496.4	7498.8	7518.4	7551.6	7071.9
37.5°	7345.5	7422.8	7561.4	7756.4	7988.3	8047.2	8030.0	8225.0	8320.7	8379.6	7730.7
40°	7464.5	7543.0	7715.9	7978.5	8315.8	8456.9	8615.1	8957.4	9082.5	9021.2	8293.7
42.5°	7333.2	7403.1	7703.7	8157.6	8584.4	8904.6	9188.0	9688.5	9779.3	9579.3	8768.5
45°	7162.7	7253.5	7570.0	8206.6	8822.4	9343.8	9784.2	10325.1	10392.6	10109.2	9188.0
47.5°	7022.9	7102.6	7471.8	8153.9	9042.0	9794.0	10308.0	10926.2	10943.4	10593.8	9622.2
50°	6843.8	6940.7	7325.9	8088.9	9174.5	10192.7	10787.6	11486.8	11524.9	11095.5	9990.2
52.5°	6656.1	6750.5	7149.2	7982.1	9270.2	10523.9	11285.6	12083.0	12086.7	11626.7	10382.8
55°	6378.8	6479.4	6921.0	7827.6	9299.6	10743.4	11786.1	12691.4	12729.5	12165.2	10738.5
57.5°	6085.7	6171.5	6646.3	7587.1	9190.4	10950.8	12300.1	13367.4	13471.6	12772.4	11044.0
60°	5696.8	5782.7	6284.4	7271.9	8958.6	11183.8	12888.9	14181.9	14192.9	13264.3	11266.0
62.5°	5278.5	5353.3	5814.6	6777.5	8599.2	11273.4	13394.3	14833.3	14832.0	13702.2	11376.4
65°	4781.7	4812.3	5282.2	6170.3	8041.0	11142.1	13617.6	15262.6	15220.9	14017.5	11339.6
67.5°	4192.9	4226.0	4581.7	5415.9	7231.4	10629.4	13518.2	15469.9	15511.6	14298.4	11180.1
70°	3447.0	3486.3	3796.6	4500.8	6199.7	9811.2	13285.2	15559.5	15595.0	14185.6	10688.2
72.5°	2544.2	2596.9	2787.1	3350.1	4705.6	8243.4	12205.7	14579.3	14599.0	13243.5	9663.9
75°	1580.0	1676.9	1856.0	2226.5	3053.3	5781.4	10433.1	13033.7	12911.0	11813.1	7996.9
77.5°	631.8	647.7	737.2	1042.7	1489.2	3010.3	7562.6	10360.7	10595.0	9451.7	5720.1
80°	368.0	365.6	386.4	485.8	639.1	1029.2	2941.6	5812.1	6478.2	5191.4	2573.6
82.5°	296.9	285.8	285.8	311.6	306.7	433.0	964.2	1697.8	1862.1	1652.4	732.3
85°	155.8	152.1	123.9	153.3	153.3	215.9	370.5	480.9	507.9	442.8	274.8
87.5°	39.3	39.3	39.3	47.8	38.0	45.4	62.6	76.1	78.5	63.8	40.5
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°	3813.8	3813.8	3813.8	3813.8	3813.8	3813.8	3813.8	3813.8	3813.8	3813.8	3813.8
2.5°	3842.0	3853.1	3896.0	3889.9	3897.2	3897.2	3909.5	3923.0	3963.5	3940.2	3930.3
5°	3886.2	3908.3	3962.2	3981.9	4011.3	4015.0	4039.5	4048.1	4092.3	4067.7	4067.7
7.5°	3970.8	3996.6	4046.9	4054.2	4067.7	4044.4	4050.6	4023.6	4053.0	4023.6	4024.8
10°	4066.5	4083.7	4118.0	4069.0	4048.1	3992.9	3980.6	3914.4	3937.7	3899.7	3889.9
12.5°	4158.5	4152.4	4126.6	4039.5	3981.9	3891.1	3853.1	3763.5	3758.6	3708.3	3698.5
15°	4245.6	4202.7	4119.3	3984.3	3886.2	3759.8	3669.1	3570.9	3536.6	3478.9	3474.0
17.5°	4352.3	4278.7	4130.3	3931.6	3770.9	3586.9	3458.1	3347.7	3276.5	3223.8	3222.5
20°	4482.4	4369.5	4135.2	3871.5	3651.9	3416.4	3236.0	3096.2	2994.4	2928.1	2926.9
22.5°	4645.5	4492.2	4180.6	3802.8	3499.8	3210.3	2985.8	2744.1	2604.3	2469.3	2444.8
25°	4836.9	4616.1	4219.8	3767.2	3350.1	2995.6	2661.9	2308.7	2091.5	1983.6	1943.1
27.5°	5105.5	4822.2	4277.5	3699.7	3209.0	2730.6	2244.9	1859.7	1598.4	1506.4	1506.4
30°	5415.9	5082.2	4385.5	3659.2	3012.8	2358.9	1787.3	1373.9	1131.0	992.4	988.7
32.5°	5889.4	5392.6	4483.6	3572.2	2774.8	1954.1	1292.9	885.7	690.6	604.8	599.9
35°	6570.2	5983.8	4641.8	3485.1	2430.1	1454.9	820.7	507.9	393.8	344.7	342.2
37.5°	7225.3	6546.9	4982.9	3312.1	1940.6	913.9	455.1	293.2	240.4	234.3	231.8
40°	7686.5	7032.7	5223.3	3048.4	1378.8	484.5	263.7	212.2	208.5	206.1	204.9
42.5°	8189.5	7393.3	5393.8	2712.2	818.2	280.9	214.7	191.4	185.2	182.8	182.8
45°	8597.9	7740.5	5425.7	2231.4	412.2	231.8	196.3	174.2	166.8	171.7	173.0
47.5°	8974.5	8068.0	5317.7	1678.1	278.5	215.9	184.0	161.9	157.0	169.3	169.3
50°	9295.9	8345.2	5070.0	1252.5	261.3	203.6	171.7	149.7	148.4	159.5	160.7
52.5°	9616.1	8568.5	4679.9	945.8	247.8	190.1	159.5	138.6	134.9	142.3	143.5
55°	9870.0	8648.2	4390.4	704.1	238.0	177.9	148.4	127.6	119.0	117.8	120.2
57.5°	10009.9	8578.3	4107.0	517.7	226.9	166.8	137.4	112.9	99.4	99.4	99.4
60°	10012.3	8493.7	3804.0	409.7	214.7	154.6	125.1	96.9	83.4	81.0	81.0
62.5°	9985.3	8342.8	3363.6	355.7	201.2	144.8	109.2	82.2	72.4	68.7	68.7
65°	9866.4	8058.2	2830.0	304.2	185.2	137.4	93.2	73.6	65.0	60.1	60.1
67.5°	9495.9	7524.6	2178.6	265.0	170.5	121.4	84.6	66.2	57.7	52.7	51.5
70°	8816.3	6662.2	1437.7	225.7	155.8	107.9	77.3	60.1	51.5	46.6	45.4
72.5°	7676.7	5422.0	722.5	191.4	133.7	99.4	69.9	52.7	44.2	39.3	39.3
75°	6015.7	3763.5	393.8	152.1	105.5	87.1	61.3	44.2	38.0	34.3	34.3
77.5°	3688.7	1865.8	268.6	117.8	79.7	71.1	49.1	36.8	33.1	31.9	31.9
80°	1345.7	610.9	180.3	83.4	60.1	55.2	39.3	31.9	30.7	30.7	30.7
82.5°	485.8	310.4	121.4	56.4	38.0	41.7	31.9	27.0	25.8	27.0	28.2
85°	200.0	136.2	44.2	31.9	20.9	22.1	19.6	18.4	19.6	20.9	20.9
87.5°	30.7	27.0	15.9	15.9	12.3	11.0	8.6	9.8	12.3	14.7	14.7
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)