

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: P510310

Luminaire Tested: **VERD-M-CA4-250-727-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510310
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-CA4-250-727-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1130mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27336 lumens
Efficiency: N/A
Efficacy: 108.6 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

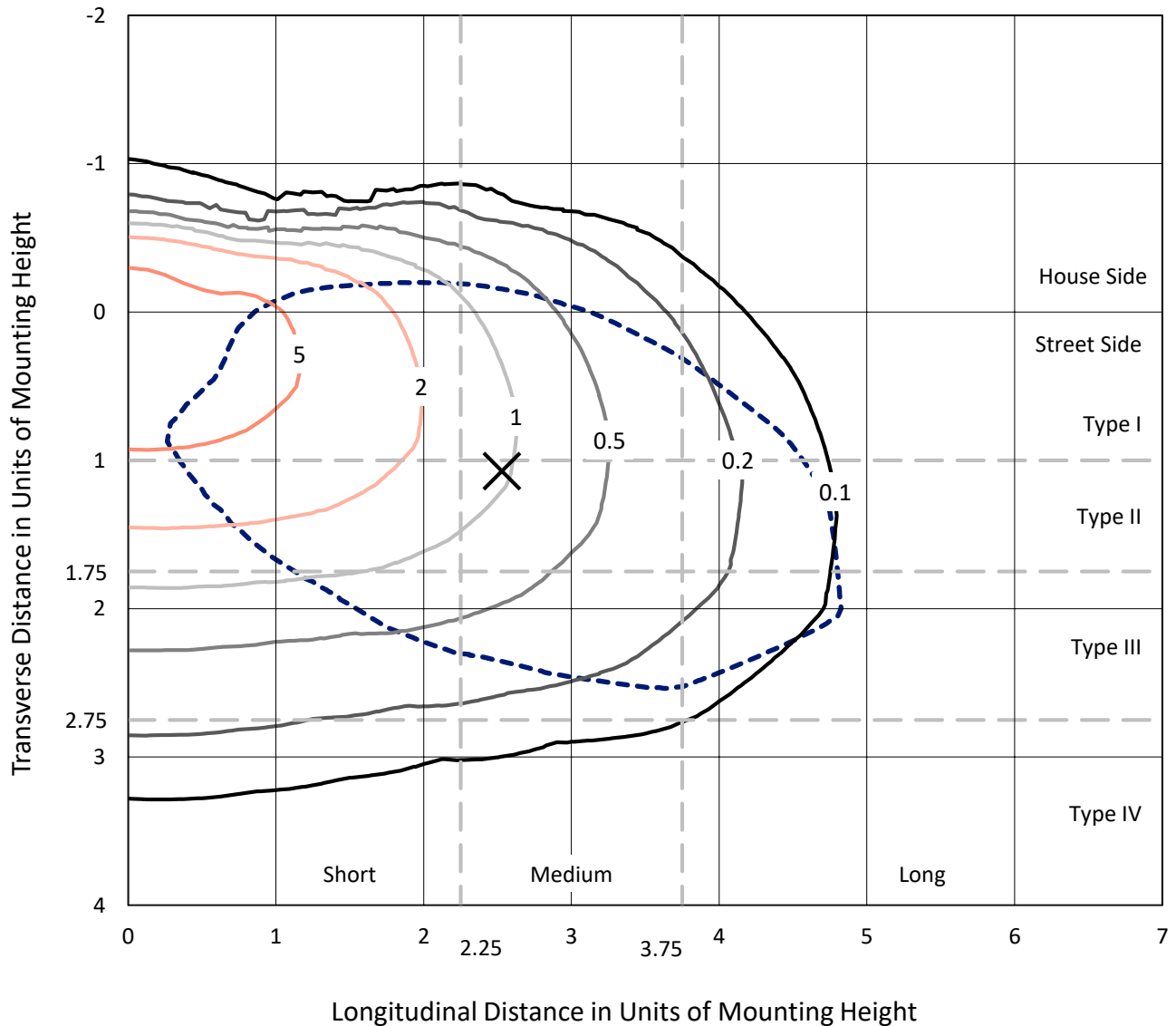
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

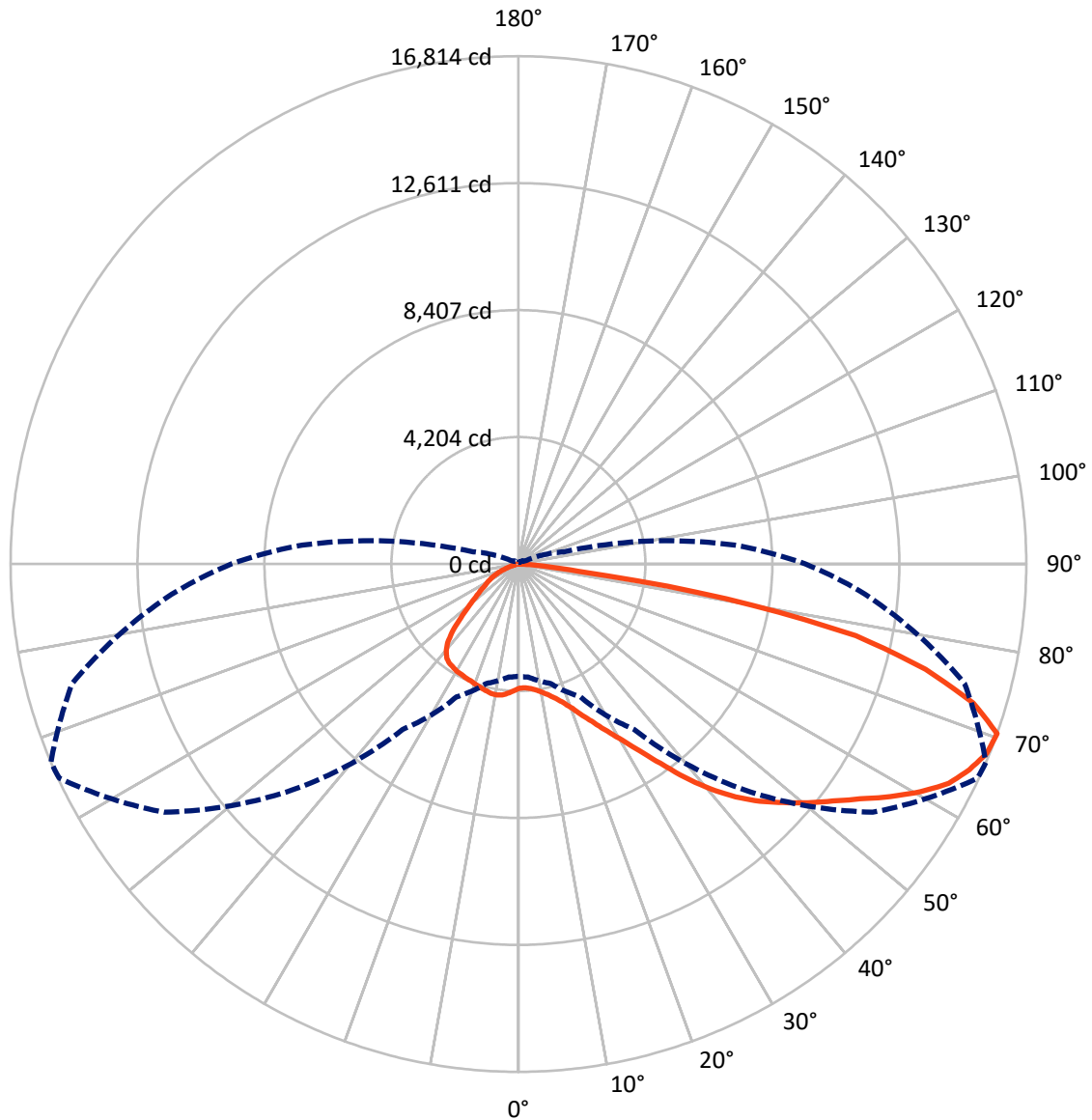
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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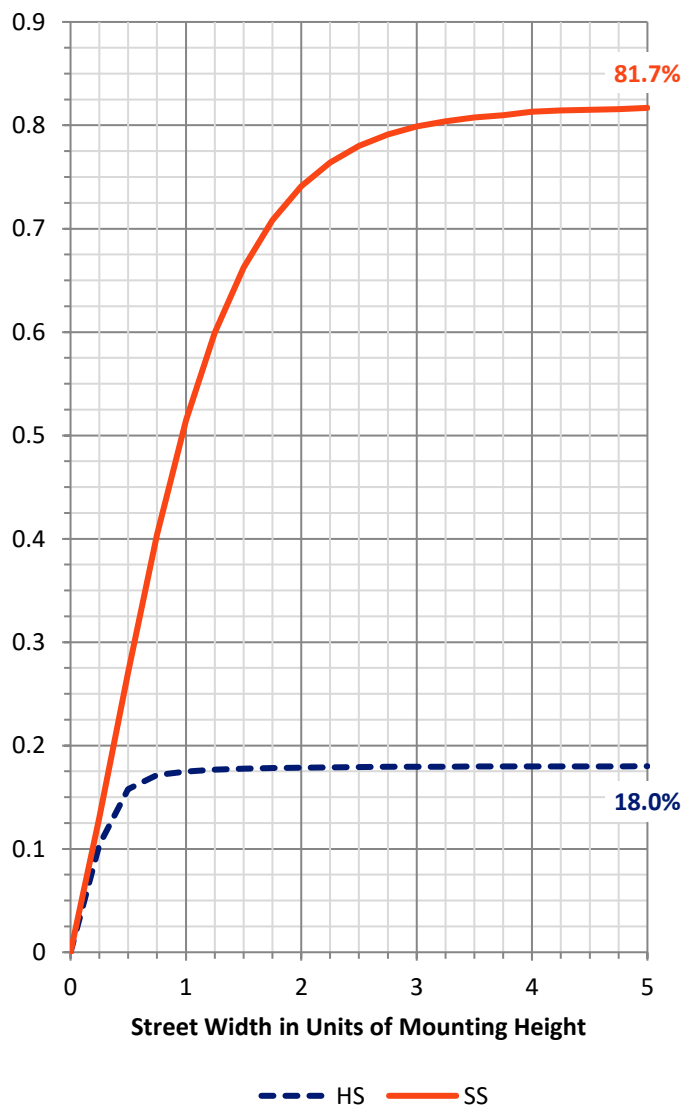
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4980.8	0.0	4980.8
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	22355.2	0.0	22355.2
	% Fixture	81.8	0.0	81.8
Total	Lumens	27336.0	0.0	27336.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.7	1.5
10°-20°	1278.1	4.7
20°-30°	2217.6	8.1
30°-40°	3293.6	12.0
40°-50°	4518.6	16.5
50°-60°	5549.1	20.3
60°-70°	5949.2	21.8
70°-80°	3776.6	13.8
80°-90°	343.7	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°	27336.0	100.0
0°-180°	27336.0	100.0



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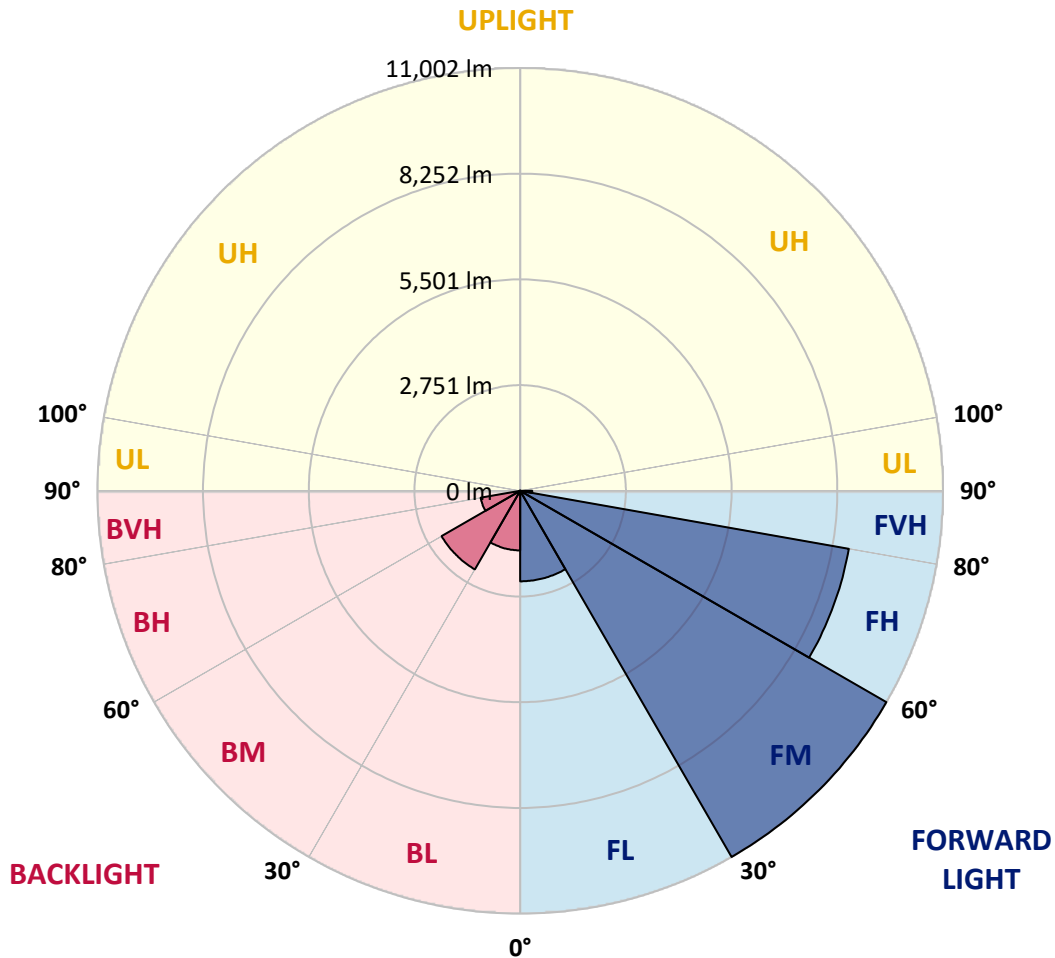
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2355.2	8.6			
FM	(30°-60°)	11002.5	40.2			
FH	(60°-80°)	8684.0	31.8			G4/12000
FVH	(80°-90°)	313.5	1.1			G3/500
BL	(0°-30°)	1550.1	5.7	B3/2500		
BM	(30°-60°)	2358.7	8.6	B2/2500		
BH	(60°-80°)	1041.8	3.8	B3/2500		G3/2500
BVH	(80°-90°)	30.2	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°	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9
2.5°	4074.9	4113.3	4090.8	4088.1	4114.6	4089.5	4106.7	4102.7	4100.0	4104.0	4131.8
5°	4182.0	4227.0	4196.6	4187.3	4201.9	4156.9	4152.9	4143.7	4141.0	4142.4	4182.0
7.5°	4331.5	4384.4	4372.5	4348.7	4340.8	4266.7	4253.5	4220.4	4209.8	4212.5	4252.1
10°	4566.9	4619.8	4596.0	4543.1	4510.1	4425.4	4377.8	4335.5	4314.3	4317.0	4359.3
12.5°	4868.5	4918.7	4879.1	4782.5	4764.0	4627.8	4553.7	4463.8	4449.2	4428.0	4473.0
15°	5152.8	5196.5	5178.0	5088.0	5037.8	4876.4	4740.2	4629.1	4615.9	4596.0	4594.7
17.5°	5467.6	5511.3	5476.9	5410.7	5344.6	5152.8	5006.0	4863.2	4828.8	4811.6	4749.4
20°	5803.5	5872.3	5865.7	5811.5	5732.1	5507.3	5299.6	5138.3	5101.3	5069.5	4938.6
22.5°	6150.1	6240.0	6220.2	6191.1	6158.0	5905.4	5663.4	5476.9	5449.1	5381.6	5175.3
25°	6533.6	6595.8	6581.2	6595.8	6573.3	6349.8	6085.3	5857.8	5820.7	5757.3	5441.2
27.5°	6905.3	6970.1	6995.2	6964.8	6979.3	6819.3	6505.8	6302.2	6266.5	6150.1	5761.2
30°	7241.2	7321.9	7357.6	7370.8	7419.8	7254.4	7023.0	6775.7	6763.8	6644.7	6183.1
32.5°	7509.7	7599.6	7686.9	7743.8	7821.8	7749.1	7519.0	7369.5	7370.8	7263.7	6816.7
35°	7704.1	7807.3	7934.2	8085.0	8249.0	8218.6	8082.4	8085.0	8106.2	8141.9	7624.8
37.5°	7919.7	8003.0	8152.5	8362.8	8612.7	8676.2	8657.7	8868.0	8971.2	9034.6	8335.0
40°	8048.0	8132.6	8319.1	8602.2	8965.9	9118.0	9288.6	9657.6	9792.5	9726.4	8942.1
42.5°	7906.5	7981.9	8305.9	8795.3	9255.5	9600.7	9906.2	10445.9	10543.7	10328.1	9453.9
45°	7722.6	7820.5	8161.7	8848.2	9512.1	10074.2	10549.0	11132.3	11205.0	10899.5	9906.2
47.5°	7571.9	7657.8	8055.9	8791.3	9748.9	10559.6	11113.8	11780.4	11798.9	11421.9	10374.4
50°	7378.8	7483.2	7898.5	8721.2	9891.7	10989.4	11630.9	12384.8	12425.8	11962.9	10771.2
52.5°	7176.4	7278.2	7708.1	8606.1	9994.9	11346.5	12167.9	13027.6	13031.5	12535.6	11194.4
55°	6877.5	6985.9	7462.1	8439.5	10026.6	11583.3	12707.5	13683.6	13724.6	13116.2	11578.0
57.5°	6561.4	6654.0	7165.8	8180.3	9908.9	11806.8	13261.7	14412.3	14524.7	13770.9	11907.3
60°	6142.1	6234.7	6775.7	7840.3	9658.9	12058.1	13896.5	15290.5	15302.4	14301.2	12146.7
62.5°	5691.1	5771.8	6269.1	7307.3	9271.4	12154.7	14441.4	15992.8	15991.5	14773.4	12265.7
65°	5155.5	5188.5	5695.1	6652.7	8669.6	12013.1	14682.1	16455.7	16410.8	15113.3	12226.1
67.5°	4520.6	4556.3	4939.9	5839.3	7796.7	11460.3	14575.0	16679.3	16724.2	15416.2	12054.1
70°	3716.5	3758.8	4093.4	4852.6	6684.4	10578.1	14323.7	16775.8	16814.2	15294.5	11523.8
72.5°	2743.1	2799.9	3004.9	3612.0	5073.5	8887.8	13159.8	15719.0	15740.2	14278.7	10419.4
75°	1703.5	1808.0	2001.1	2400.5	3291.9	6233.4	11248.7	14052.6	13920.3	12736.6	8622.0
77.5°	681.1	698.3	794.9	1124.2	1605.6	3245.6	8153.8	11170.6	11423.3	10190.6	6167.3
80°	396.8	394.1	416.6	523.7	689.1	1109.7	3171.6	6266.5	6984.6	5597.2	2774.8
82.5°	320.1	308.2	308.2	335.9	330.6	466.9	1039.6	1830.5	2007.7	1781.5	789.6
85°	168.0	164.0	133.6	165.3	165.3	232.8	399.4	518.5	547.6	477.5	296.3
87.5°	42.3	42.3	42.3	51.6	41.0	48.9	67.5	82.0	84.6	68.8	43.6
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°	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9
2.5°	4142.4	4154.3	4200.6	4194.0	4201.9	4201.9	4215.1	4229.7	4273.3	4248.2	4237.6
5°	4190.0	4213.8	4272.0	4293.1	4324.9	4328.9	4355.3	4364.6	4412.2	4385.7	4385.7
7.5°	4281.2	4309.0	4363.2	4371.2	4385.7	4360.6	4367.2	4338.1	4369.9	4338.1	4339.4
10°	4384.4	4402.9	4440.0	4387.0	4364.6	4305.0	4291.8	4220.4	4245.5	4204.5	4194.0
12.5°	4483.6	4477.0	4449.2	4355.3	4293.1	4195.3	4154.3	4057.7	4052.4	3998.2	3987.6
15°	4577.5	4531.2	4441.3	4295.8	4190.0	4053.8	3955.9	3850.1	3813.0	3750.9	3745.6
17.5°	4692.6	4613.2	4453.2	4238.9	4065.7	3867.3	3728.4	3609.4	3532.7	3475.8	3474.5
20°	4832.8	4711.1	4458.5	4174.1	3937.4	3683.4	3489.0	3338.2	3228.5	3157.0	3155.7
22.5°	5008.7	4843.3	4507.4	4100.0	3773.4	3461.2	3219.2	2958.6	2807.9	2662.4	2635.9
25°	5215.0	4976.9	4549.7	4061.7	3612.0	3229.8	2870.0	2489.1	2255.0	2138.6	2095.0
27.5°	5504.6	5199.1	4611.9	3988.9	3459.9	2944.1	2420.3	2005.1	1723.3	1624.1	1624.1
30°	5839.3	5479.5	4728.3	3945.3	3248.3	2543.4	1927.0	1481.3	1219.4	1070.0	1066.0
32.5°	6349.8	5814.1	4834.1	3851.4	2991.7	2106.9	1394.0	954.9	744.6	652.0	646.7
35°	7083.8	6451.6	5004.7	3757.5	2620.1	1568.6	884.8	547.6	424.6	371.6	369.0
37.5°	7790.1	7058.7	5372.4	3571.0	2092.3	985.3	490.7	316.1	259.2	252.6	250.0
40°	8287.4	7582.4	5631.6	3286.6	1486.6	522.4	284.4	228.8	224.8	222.2	220.9
42.5°	8829.6	7971.3	5815.5	2924.3	882.2	302.9	231.5	206.3	199.7	197.1	197.1
45°	9270.1	8345.6	5849.8	2405.8	444.4	250.0	211.6	187.8	179.9	185.2	186.5
47.5°	9676.1	8698.7	5733.5	1809.3	300.2	232.8	198.4	174.6	169.3	182.5	182.5
50°	10022.6	8997.6	5466.3	1350.4	281.7	219.6	185.2	161.4	160.0	171.9	173.3
52.5°	10367.8	9238.3	5045.7	1019.7	267.2	205.0	171.9	149.5	145.5	153.4	154.7
55°	10641.6	9324.3	4733.6	759.2	256.6	191.8	160.0	137.5	128.3	127.0	129.6
57.5°	10792.4	9248.9	4428.0	558.1	244.7	179.9	148.1	121.7	107.1	107.1	107.1
60°	10795.0	9157.7	4101.4	441.7	231.5	166.6	134.9	104.5	89.9	87.3	87.3
62.5°	10765.9	8995.0	3626.6	383.6	216.9	156.1	117.7	88.6	78.0	74.1	74.1
65°	10637.6	8688.1	3051.2	328.0	199.7	148.1	100.5	79.4	70.1	64.8	64.8
67.5°	10238.2	8112.8	2348.9	285.7	183.8	130.9	91.3	71.4	62.2	56.9	55.5
70°	9505.5	7183.0	1550.1	243.4	168.0	116.4	83.3	64.8	55.5	50.3	48.9
72.5°	8276.8	5845.9	779.0	206.3	144.2	107.1	75.4	56.9	47.6	42.3	42.3
75°	6486.0	4057.7	424.6	164.0	113.7	93.9	66.1	47.6	41.0	37.0	37.0
77.5°	3977.0	2011.7	289.6	127.0	86.0	76.7	52.9	39.7	35.7	34.4	34.4
80°	1450.9	658.7	194.4	89.9	64.8	59.5	42.3	34.4	33.1	33.1	33.1
82.5°	523.7	334.6	130.9	60.8	41.0	45.0	34.4	29.1	27.8	29.1	30.4
85°	215.6	146.8	47.6	34.4	22.5	23.8	21.2	19.8	21.2	22.5	22.5
87.5°	33.1	29.1	17.2	17.2	13.2	11.9	9.3	10.6	13.2	15.9	15.9
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)