

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: P510069

Luminaire Tested: **VERD-M-CA4-200-727-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-200-727-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 910mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24359 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

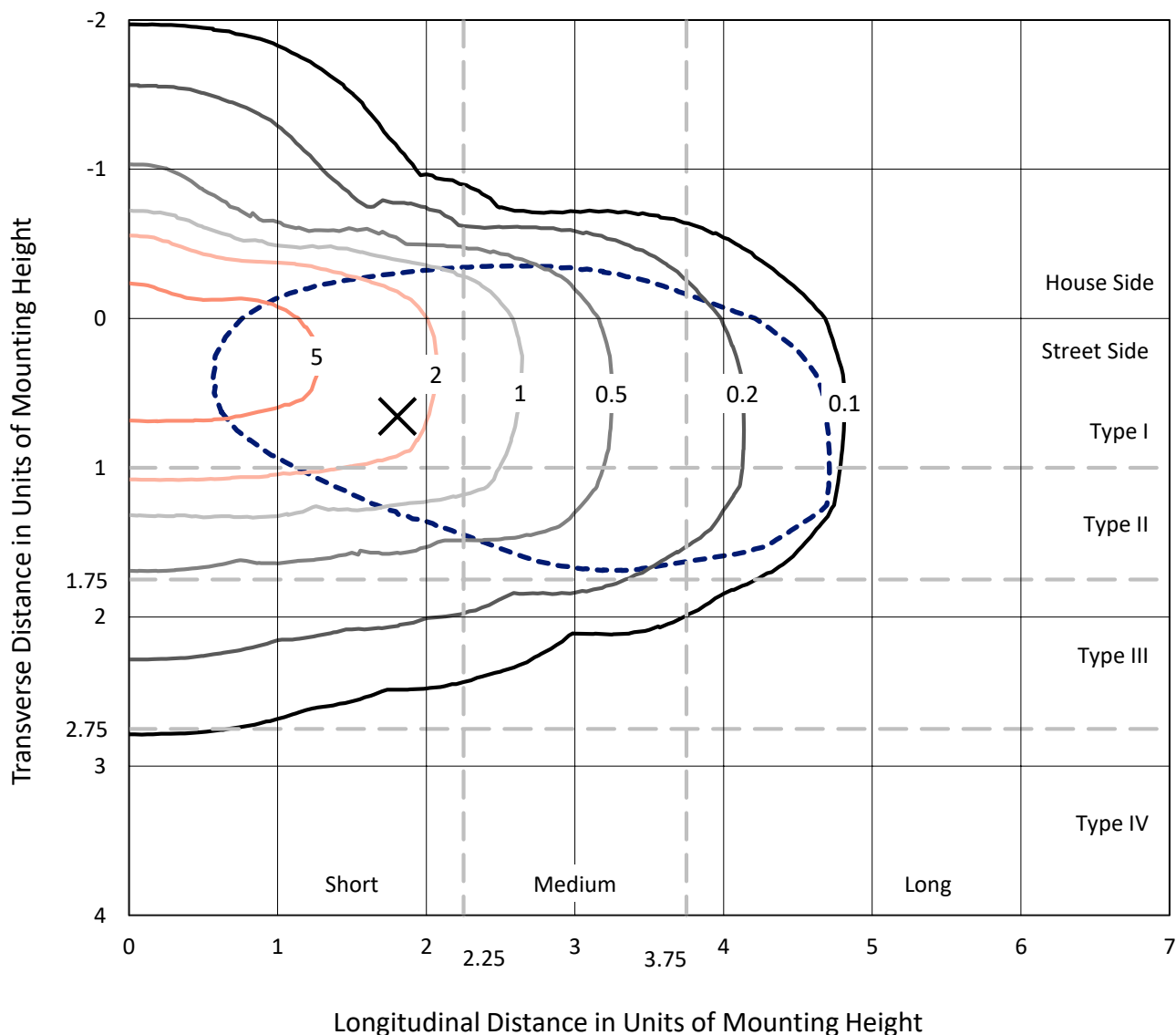
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

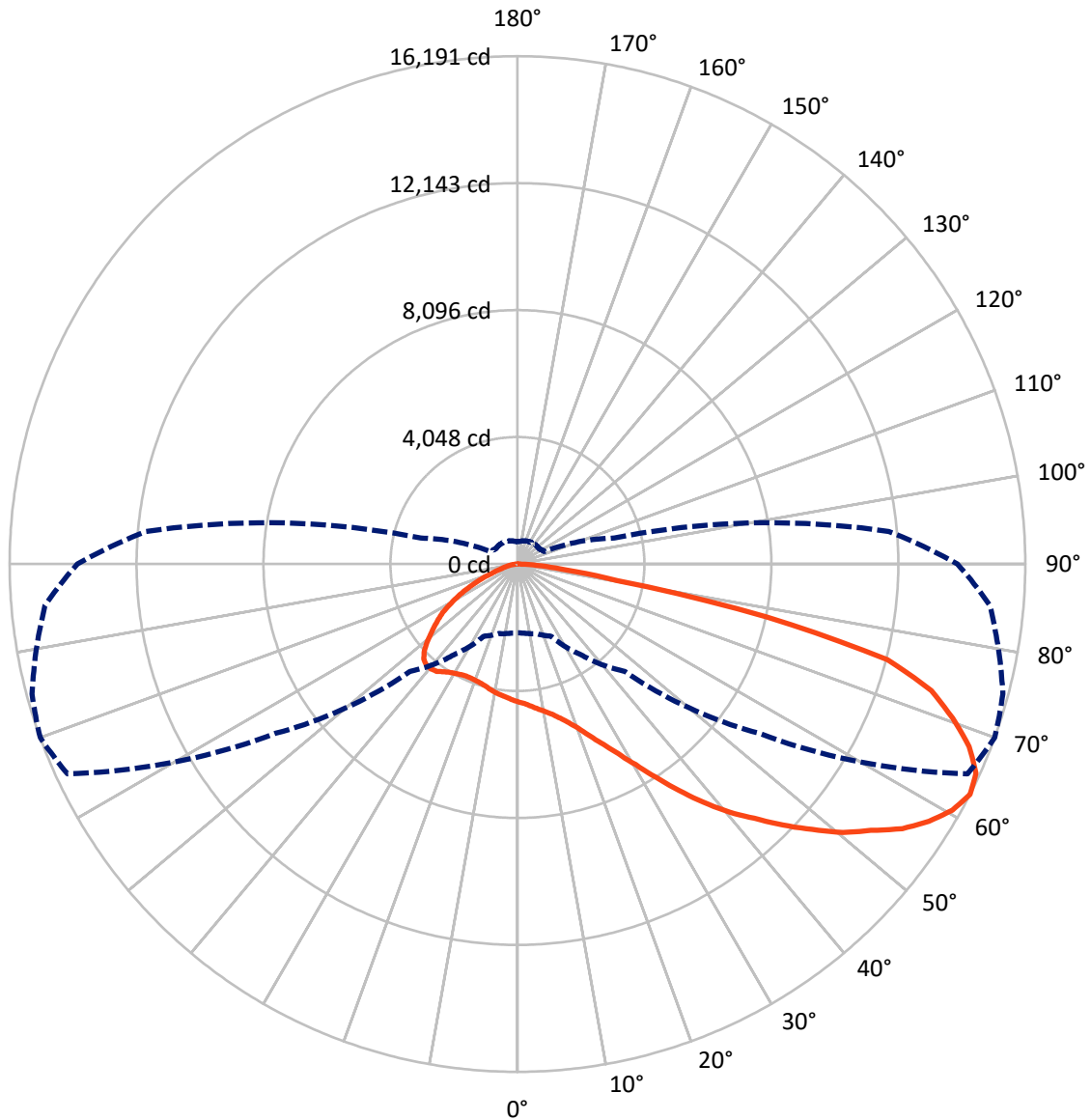
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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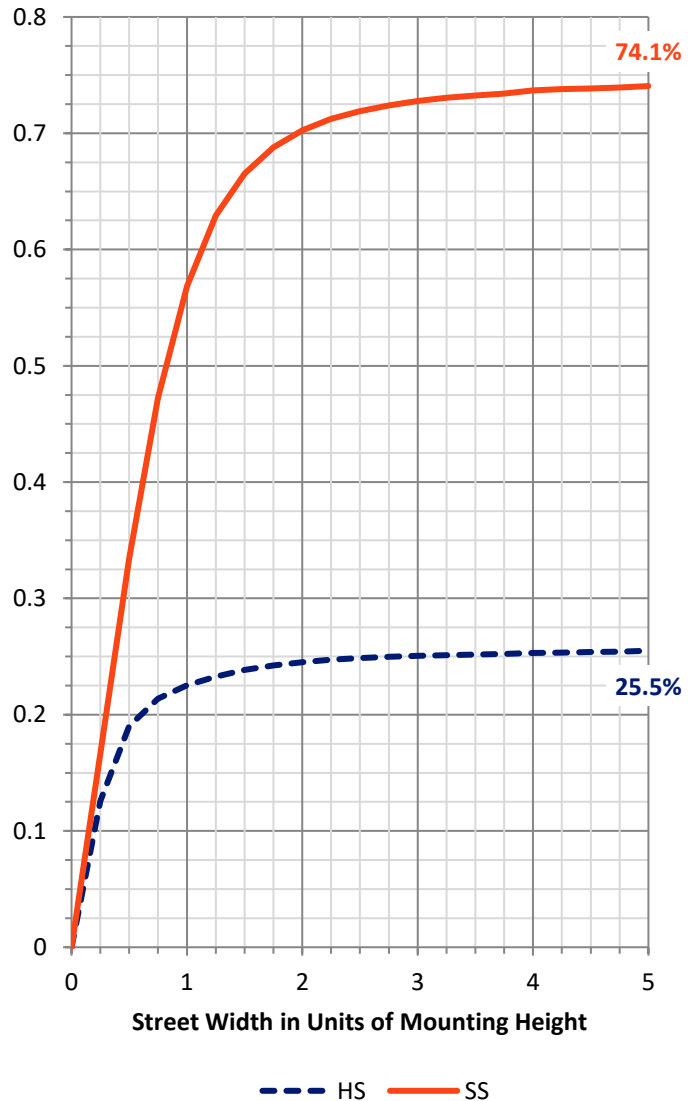
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6306.7	0.0	6306.7
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	18052.3	0.0	18052.3
	% Fixture	74.1	0.0	74.1
Total	Lumens	24359.0	0.0	24359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.3	1.7
10°-20°	1282.4	5.3
20°-30°	2176.4	8.9
30°-40°	3149.2	12.9
40°-50°	4132.5	17.0
50°-60°	4828.7	19.8
60°-70°	4845.8	19.9
70°-80°	3087.8	12.7
80°-90°	433.9	1.8
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°	24359.0	100.0
0°-180°	24359.0	100.0

Coefficient of Utilization



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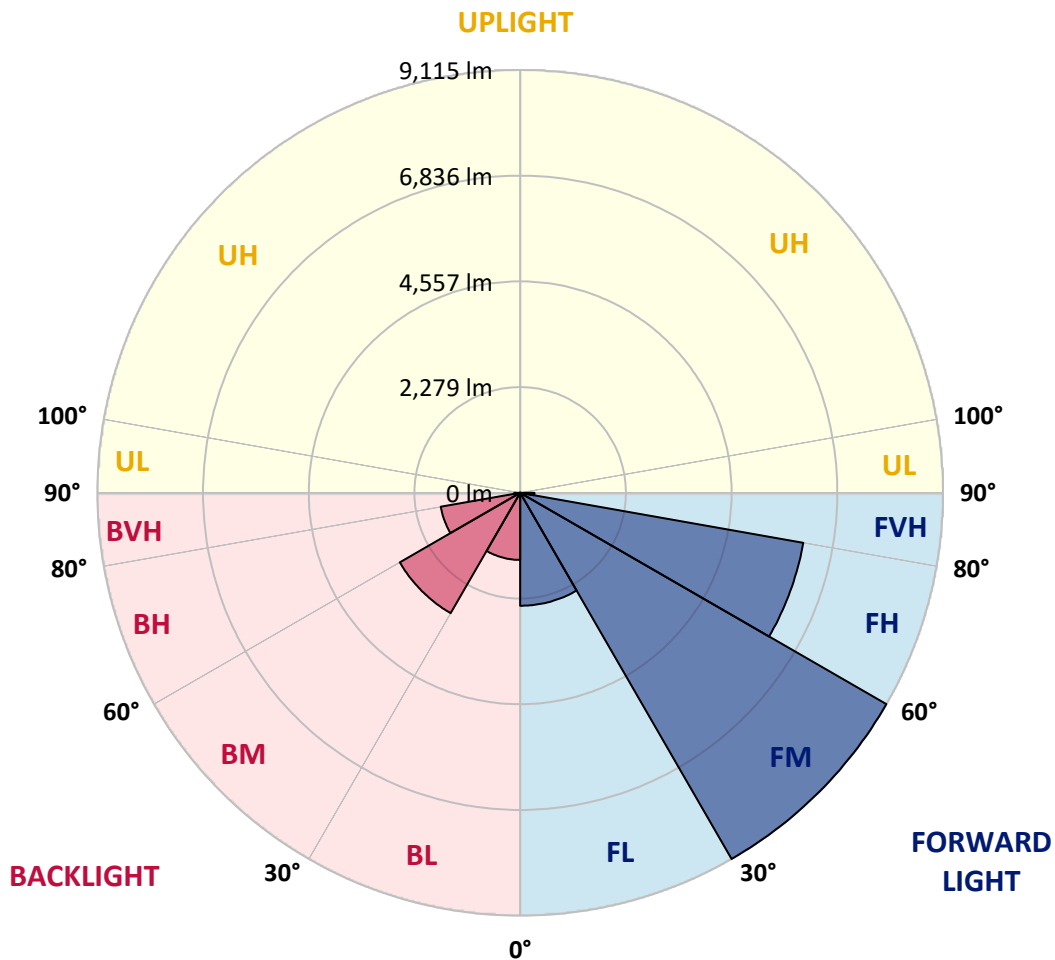
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2434.7	10.0			
FM (30°-60°)	9114.9	37.4			
FH (60°-80°)	6196.7	25.4			G3/7500
FVH (80°-90°)	306.1	1.3			G3/500
BL (0°-30°)	1446.4	5.9	B3/2500		
BM (30°-60°)	2995.5	12.3	B3/5000		
BH (60°-80°)	1736.9	7.1	B3/2500		G3/2500
BVH (80°-90°)	127.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4396.5	4396.5	4396.5	4396.5	4396.5	4396.5	4396.5	4396.5	4396.5	4396.5	4396.5
2.5°	4564.9	4613.3	4606.7	4577.0	4597.9	4540.7	4519.7	4487.8	4454.8	4443.8	4425.1
5°	4780.6	4844.5	4832.4	4792.7	4791.6	4710.2	4663.9	4603.4	4552.8	4513.1	4454.8
7.5°	4982.1	5055.8	5044.8	5006.3	5004.1	4910.5	4814.8	4720.1	4661.7	4611.1	4504.3
10°	5195.6	5251.8	5241.9	5192.3	5182.4	5091.0	4978.8	4859.9	4774.0	4703.6	4551.7
12.5°	5392.7	5452.1	5456.5	5394.9	5379.4	5281.5	5183.5	5026.1	4914.9	4834.6	4611.1
15°	5576.5	5646.9	5633.7	5572.1	5555.6	5456.5	5360.7	5215.4	5099.9	4987.6	4708.0
17.5°	5724.0	5791.1	5774.6	5747.1	5738.3	5661.2	5582.0	5424.6	5322.2	5178.0	4857.7
20°	5825.3	5888.0	5894.6	5886.9	5937.5	5864.9	5820.9	5709.7	5597.4	5467.5	5062.4
22.5°	5864.9	5939.7	6003.6	6053.1	6157.7	6146.7	6139.0	6075.1	5965.1	5775.7	5333.2
25°	5877.0	5951.8	6050.9	6173.1	6360.2	6427.4	6475.8	6491.2	6371.2	6221.5	5670.1
27.5°	5879.2	5959.6	6060.8	6257.9	6543.0	6745.5	6861.1	6915.0	6847.9	6729.0	6128.0
30°	5833.0	5915.5	6045.4	6308.5	6686.1	7018.5	7210.0	7448.9	7420.3	7320.1	6701.5
32.5°	5699.8	5774.6	5954.0	6299.7	6828.1	7298.1	7596.4	8010.3	8107.1	8042.2	7363.0
35°	5460.9	5552.3	5784.5	6227.0	6905.1	7570.0	8051.0	8695.0	8870.0	8874.4	8174.3
37.5°	5219.8	5289.2	5562.2	6090.5	6948.0	7811.0	8482.5	9380.7	9635.0	9640.5	8849.1
40°	4963.4	5027.2	5327.7	5907.8	6904.0	8000.4	8884.3	10040.1	10404.4	10370.3	9511.7
42.5°	4630.9	4701.4	4999.7	5659.0	6793.9	8146.8	9292.7	10732.5	11082.5	11121.0	10203.0
45°	4346.9	4403.1	4663.9	5270.5	6592.5	8226.0	9675.7	11471.1	11871.8	11831.0	10940.5
47.5°	3996.9	4080.5	4359.0	4954.6	6230.3	8206.2	10042.3	12202.0	12647.8	12610.4	11580.1
50°	3083.2	3180.1	3827.4	4623.2	5768.0	8051.0	10374.7	12901.0	13454.7	13356.7	12257.0
52.5°	2800.4	2827.9	3085.4	4242.4	5312.3	7698.8	10619.1	13783.8	14111.8	14073.3	12942.8
55°	2627.5	2680.4	2798.1	3494.9	4902.8	7126.4	10788.6	14521.3	14891.2	14710.6	13563.7
57.5°	2475.6	2513.1	2652.8	2991.9	4431.7	6338.2	10739.1	15143.3	15473.5	15221.4	14170.2
60°	2313.8	2338.0	2477.8	2731.0	3923.1	5467.5	10236.0	15785.0	15931.4	15700.2	14683.1
62.5°	2188.3	2211.4	2295.1	2538.4	3526.9	4844.5	9412.7	15830.1	16191.2	16022.8	15119.0
65°	2027.6	2043.0	2147.6	2339.1	3159.2	4473.5	8687.3	15406.3	16065.7	16023.9	15286.4
67.5°	1850.4	1869.1	1968.2	2103.6	2689.2	4036.5	7474.2	15177.4	15535.1	15575.9	14972.6
70°	1642.3	1655.6	1757.9	1855.9	2300.6	3543.4	5941.9	14300.1	14717.3	14716.2	14004.0
72.5°	1417.8	1416.7	1518.0	1621.4	1927.4	2976.5	4651.8	12696.2	13800.3	13717.8	12625.8
75°	1169.0	1185.5	1283.5	1365.0	1603.8	2412.9	3239.6	9196.9	12183.3	12296.7	10896.5
77.5°	747.4	758.4	813.5	897.1	1121.7	1843.8	2113.5	5110.9	8134.7	9812.2	8577.2
80°	546.0	551.5	599.9	648.4	746.3	1122.8	1074.3	2221.3	3224.1	4817.0	5261.7
82.5°	372.1	373.2	411.7	422.7	428.2	506.4	509.7	1081.0	1535.6	1808.6	2323.7
85°	246.6	204.7	159.6	211.3	216.9	186.0	181.6	487.6	761.7	913.6	860.8
87.5°	55.0	53.9	62.7	63.8	61.6	52.8	44.0	74.9	114.5	113.4	145.3
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°	4396.5	4396.5	4396.5	4396.5	4396.5	4396.5	4396.5	4396.5	4396.5	4396.5	4396.5
2.5°	4407.5	4402.0	4371.1	4306.2	4262.2	4217.0	4191.7	4176.3	4181.8	4156.5	4145.5
5°	4418.5	4391.0	4304.0	4226.9	4157.6	4079.4	4014.5	4005.7	4018.9	3995.8	3982.6
7.5°	4447.1	4388.8	4277.6	4145.5	4029.9	3956.2	3862.6	3815.3	3812.0	3788.8	3793.2
10°	4463.6	4387.7	4239.1	4079.4	3944.0	3813.1	3712.9	3660.1	3656.7	3623.7	3616.0
12.5°	4508.7	4399.8	4193.9	3999.1	3848.3	3673.3	3567.6	3519.2	3513.6	3467.4	3449.8
15°	4578.1	4427.3	4146.6	3905.5	3710.7	3546.7	3420.1	3355.1	3345.2	3291.3	3272.6
17.5°	4688.2	4505.4	4132.3	3820.8	3590.7	3411.3	3262.7	3192.2	3135.0	3105.3	3079.9
20°	4836.8	4602.3	4148.8	3741.5	3439.9	3233.0	3048.0	2955.6	2915.9	2867.5	2870.8
22.5°	5048.1	4754.2	4177.4	3679.9	3303.4	3042.5	2834.5	2731.0	2659.5	2618.7	2620.9
25°	5345.3	4983.2	4233.5	3621.5	3154.8	2834.5	2589.0	2444.8	2372.2	2345.7	2318.2
27.5°	5720.7	5257.3	4366.7	3550.0	2978.7	2598.9	2327.0	2158.6	2084.9	2045.2	2039.7
30°	6202.8	5617.2	4523.1	3497.1	2793.7	2305.0	2002.3	1869.1	1804.2	1748.0	1721.6
32.5°	6790.6	6125.8	4697.0	3444.3	2564.8	1975.9	1701.8	1599.4	1495.9	1424.4	1427.7
35°	7473.1	6679.5	4955.7	3377.2	2296.2	1668.8	1479.4	1347.3	1250.5	1203.1	1181.1
37.5°	8117.1	7247.4	5259.5	3308.9	1995.7	1469.5	1260.4	1138.2	1063.3	1027.0	1034.7
40°	8768.7	7833.1	5521.4	3141.6	1658.9	1289.0	1043.5	974.2	944.5	915.8	919.1
42.5°	9352.1	8299.8	5713.0	2955.6	1423.3	1082.1	889.4	904.8	922.4	905.9	901.5
45°	9959.7	8845.8	5881.4	2638.5	1226.3	919.1	850.9	893.8	932.3	930.1	924.6
47.5°	10569.6	9352.1	5897.9	2218.0	1046.8	864.1	849.8	881.7	932.3	941.2	934.6
50°	11198.1	9882.7	5801.0	1722.7	970.9	870.7	850.9	856.4	912.5	922.4	919.1
52.5°	11894.9	10456.2	5562.2	1309.9	941.2	881.7	854.2	846.5	878.4	896.0	899.3
55°	12535.5	10911.9	5114.2	1156.9	919.1	882.8	878.4	853.1	854.2	845.4	867.4
57.5°	13073.8	11346.7	4605.6	1073.2	899.3	872.9	889.4	842.1	828.9	792.6	783.7
60°	13630.8	11700.1	3890.1	1016.0	876.2	860.8	861.9	823.4	790.4	737.5	722.1
62.5°	14026.0	11887.2	3195.5	948.9	844.3	842.1	825.6	797.0	767.2	721.0	714.4
65°	14140.5	11788.1	2454.7	878.4	802.5	811.3	781.5	741.9	618.6	561.4	561.4
67.5°	13761.8	11178.3	1817.4	797.0	751.8	769.4	711.1	584.5	520.7	486.5	492.0
70°	12723.8	10193.1	1183.3	678.1	679.2	693.5	586.7	526.2	465.6	444.7	455.7
72.5°	11336.8	8732.4	780.4	540.5	572.4	548.2	536.1	484.3	430.4	406.2	413.9
75°	9342.2	6895.2	541.6	424.9	371.0	467.8	476.6	407.3	365.5	443.6	461.2
77.5°	7380.6	4792.7	446.9	297.2	274.1	345.6	382.0	377.6	604.3	710.0	702.3
80°	4388.8	2759.6	364.4	205.8	193.7	222.4	300.5	433.7	677.0	508.6	484.3
82.5°	1990.2	1254.9	193.7	107.9	126.6	147.5	224.6	539.4	443.6	325.8	307.1
85°	777.1	409.5	77.1	47.3	44.0	55.0	102.4	259.8	178.3	144.2	144.2
87.5°	100.2	73.8	22.0	16.5	14.3	17.6	33.0	144.2	83.7	70.4	68.2
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)