

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: P510253

Luminaire Tested: **VERD-M-CA4-240-722-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510253
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-CA4-240-722-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 1090mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27254 lumens
Efficiency: N/A
Efficacy: 112.5 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

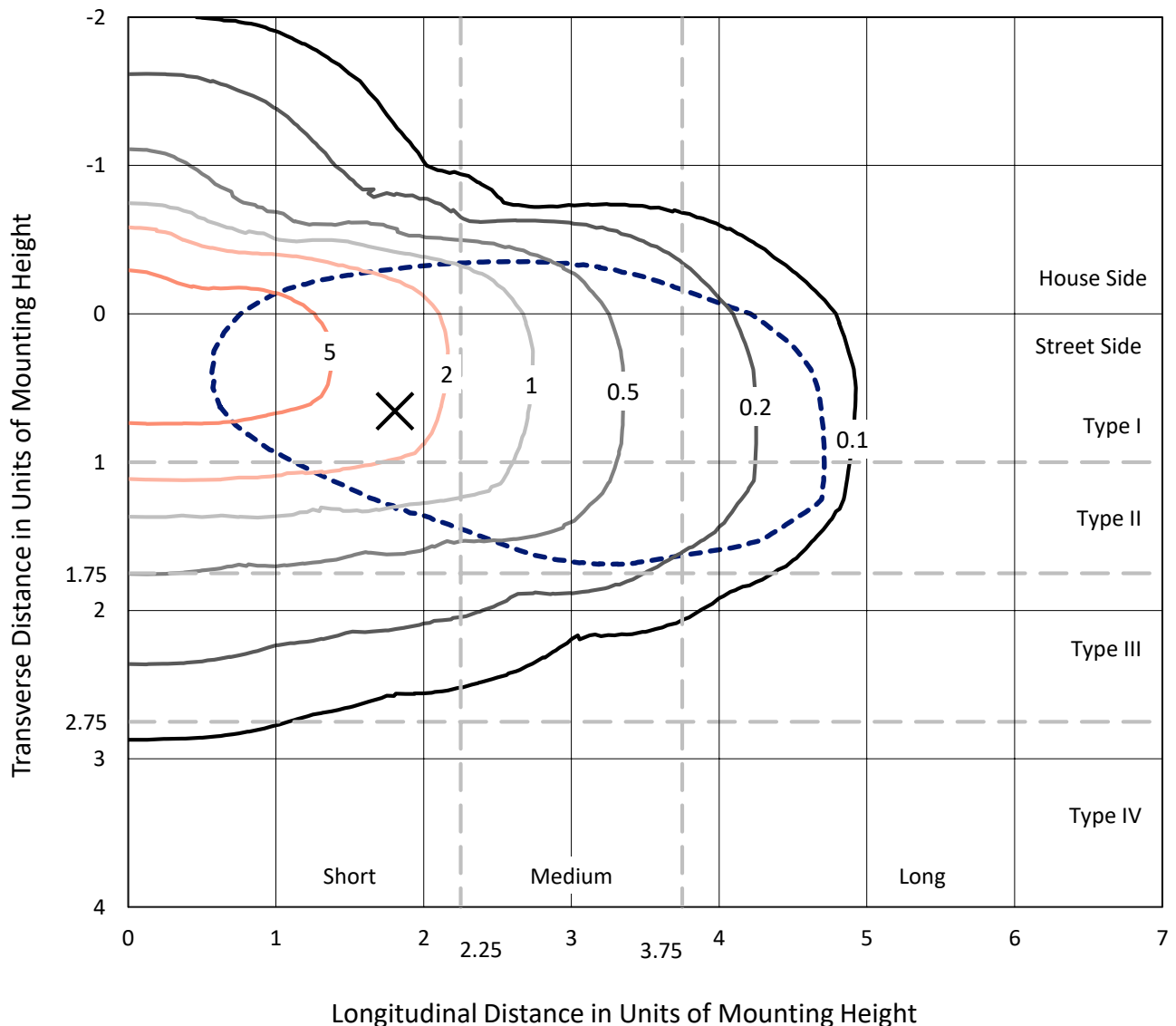
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

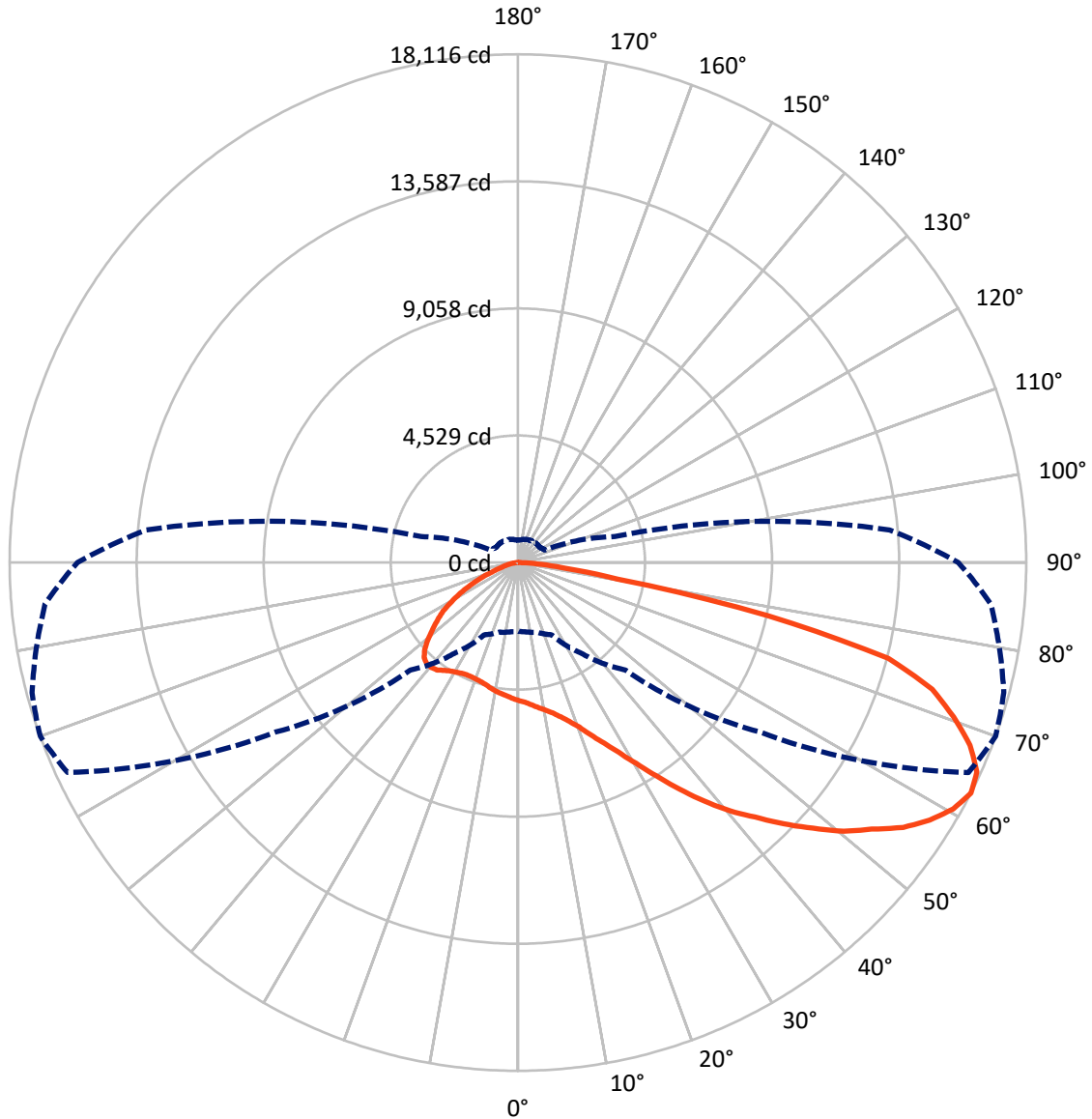
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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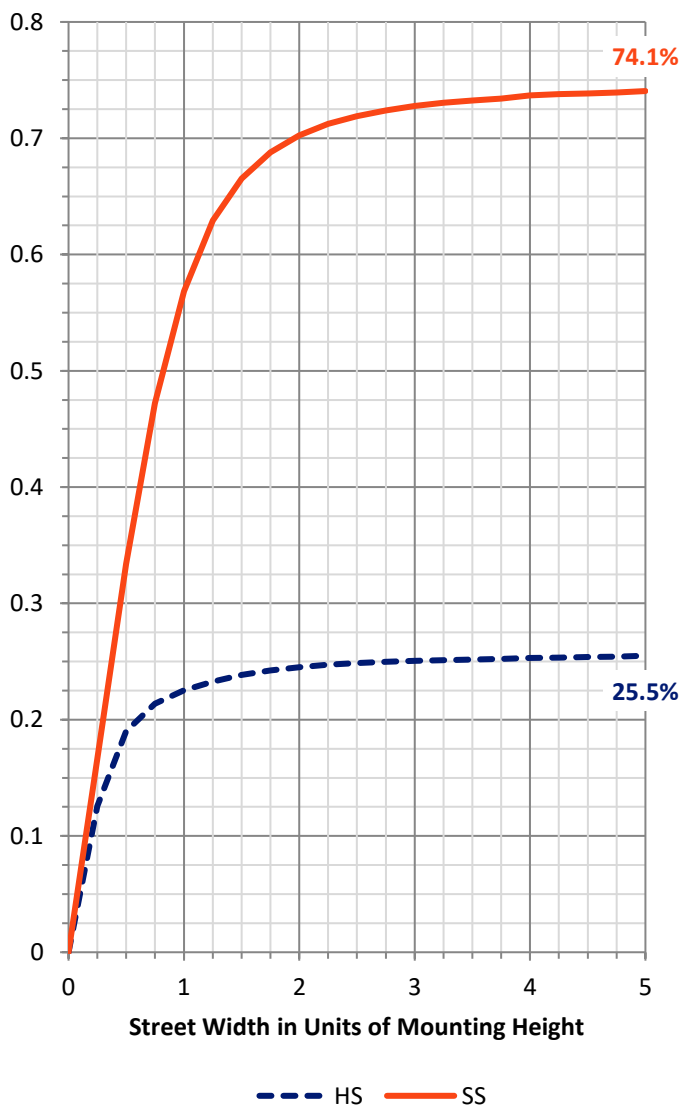
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7056.2	0.0	7056.2
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	20197.8	0.0	20197.8
	% Fixture	74.1	0.0	74.1
Total	Lumens	27254.0	0.0	27254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.5	1.7
10°-20°	1434.8	5.3
20°-30°	2435.1	8.9
30°-40°	3523.5	12.9
40°-50°	4623.6	17.0
50°-60°	5402.6	19.8
60°-70°	5421.7	19.9
70°-80°	3454.8	12.7
80°-90°	485.5	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°	27254.0	100.0
0°-180°	27254.0	100.0

Coefficient of Utilization



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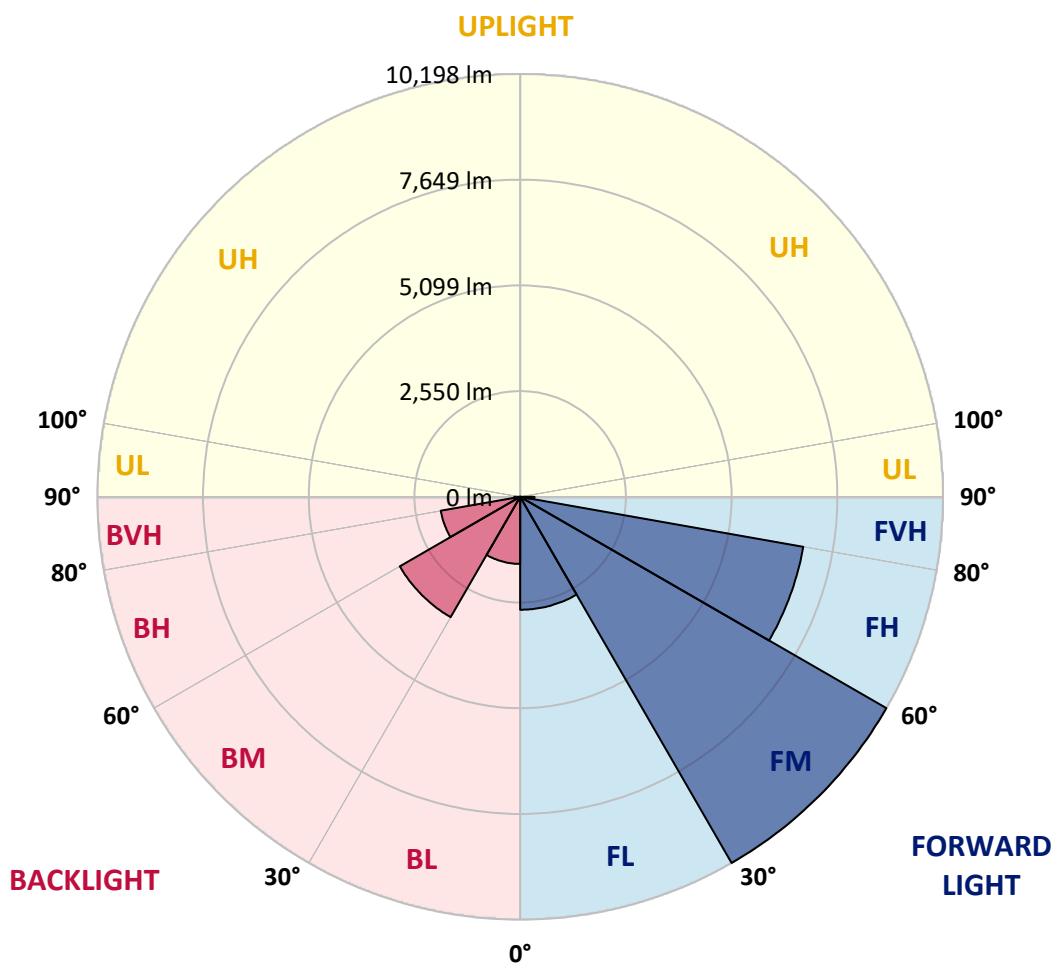
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2724.0	10.0			
FM (30°-60°)	10198.1	37.4			
FH (60°-80°)	6933.1	25.4			G3/7500
FVH (80°-90°)	342.5	1.3			G3/500
BL (0°-30°)	1618.3	5.9	B3/2500		
BM (30°-60°)	3351.5	12.3	B3/5000		
BH (60°-80°)	1943.3	7.1	B3/2500		G3/2500
BVH (80°-90°)	143.0	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°	4919.0	4919.0	4919.0	4919.0	4919.0	4919.0	4919.0	4919.0	4919.0	4919.0	4919.0
2.5°	5107.4	5161.6	5154.2	5121.0	5144.4	5080.3	5056.9	5021.2	4984.2	4971.9	4951.0
5°	5348.8	5420.2	5406.7	5362.3	5361.1	5270.0	5218.2	5150.5	5093.9	5049.5	4984.2
7.5°	5574.2	5656.7	5644.4	5601.3	5598.8	5494.1	5387.0	5281.1	5215.8	5159.1	5039.7
10°	5813.1	5875.9	5864.8	5809.4	5798.3	5696.1	5570.5	5437.5	5341.4	5262.6	5092.6
12.5°	6033.6	6100.1	6105.0	6036.0	6018.8	5909.2	5799.6	5623.4	5499.0	5409.1	5159.1
15°	6239.2	6318.1	6303.3	6234.3	6215.8	6105.0	5997.8	5835.3	5706.0	5580.3	5267.5
17.5°	6404.3	6479.4	6460.9	6430.1	6420.3	6334.1	6245.4	6069.3	5954.7	5793.4	5435.0
20°	6517.6	6587.8	6595.2	6586.5	6643.2	6561.9	6512.6	6388.3	6262.6	6117.3	5664.1
22.5°	6561.9	6645.7	6717.1	6772.5	6889.5	6877.2	6868.6	6797.1	6674.0	6462.2	5967.1
25°	6575.5	6659.2	6770.1	6906.8	7116.1	7191.3	7245.4	7262.7	7128.4	6960.9	6343.9
27.5°	6577.9	6667.8	6781.1	7001.6	7320.6	7547.2	7676.5	7736.8	7661.7	7528.7	6856.3
30°	6526.2	6618.6	6763.9	7058.2	7480.7	7852.6	8066.9	8334.2	8302.1	8190.1	7497.9
32.5°	6377.2	6460.9	6661.7	7048.4	7639.6	8165.4	8499.2	8962.3	9070.7	8998.0	8238.1
35°	6109.9	6212.1	6472.0	6967.1	7725.8	8469.6	9007.8	9728.3	9924.2	9929.1	9145.8
37.5°	5840.2	5917.8	6223.2	6814.4	7773.8	8739.4	9490.6	10495.6	10780.1	10786.3	9900.8
40°	5553.2	5624.7	5960.9	6609.9	7724.5	8951.2	9940.2	11233.3	11641.0	11602.8	10642.2
42.5°	5181.3	5260.1	5593.9	6331.6	7601.4	9115.0	10397.1	12008.0	12399.6	12442.8	11415.6
45°	4863.5	4926.4	5218.2	5896.9	7376.0	9203.7	10825.7	12834.4	13282.7	13237.1	12240.8
47.5°	4471.9	4565.5	4877.1	5543.4	6970.8	9181.5	11235.8	13652.2	14151.0	14109.1	12956.3
50°	3449.7	3558.1	4282.2	5172.7	6453.5	9007.8	11607.7	14434.2	15053.7	14944.1	13713.8
52.5°	3133.2	3164.0	3452.1	4746.5	5943.7	8613.7	11881.1	15422.0	15789.0	15745.9	14481.0
55°	2939.8	2998.9	3130.7	3910.3	5485.5	7973.3	12070.8	16247.1	16661.0	16459.0	15175.7
57.5°	2769.8	2811.7	2968.1	3347.5	4958.4	7091.5	12015.4	16943.0	17312.5	17030.4	15854.3
60°	2588.8	2615.9	2772.3	3055.6	4389.4	6117.3	11452.6	17661.0	17824.8	17566.2	16428.2
62.5°	2448.4	2474.3	2567.9	2840.0	3946.0	5420.2	10531.3	17711.5	18115.5	17927.0	16915.9
65°	2268.6	2285.8	2402.8	2617.1	3534.7	5005.2	9719.7	17237.3	17975.1	17928.3	17103.1
67.5°	2070.3	2091.2	2202.1	2353.6	3008.8	4516.2	8362.5	16981.2	17381.4	17427.0	16752.1
70°	1837.5	1852.3	1966.8	2076.5	2574.0	3964.5	6648.1	15999.6	16466.4	16465.1	15668.3
72.5°	1586.3	1585.1	1698.4	1814.1	2156.5	3330.2	5204.7	14205.2	15440.4	15348.1	14126.3
75°	1307.9	1326.4	1436.0	1527.2	1794.4	2699.6	3624.6	10289.9	13631.2	13758.1	12191.5
77.5°	836.2	848.6	910.1	1003.7	1255.0	2062.9	2364.7	5718.3	9101.5	10978.4	9596.5
80°	610.9	617.0	671.2	725.4	835.0	1256.2	1202.0	2485.3	3607.3	5389.4	5887.0
82.5°	416.3	417.5	460.6	472.9	479.1	566.5	570.2	1209.4	1718.1	2023.5	2599.9
85°	275.9	229.1	178.6	236.5	242.6	208.1	203.2	545.6	852.3	1022.2	963.1
87.5°	61.6	60.3	70.2	71.4	69.0	59.1	49.3	83.7	128.1	126.9	162.6
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°	4919.0	4919.0	4919.0	4919.0	4919.0	4919.0	4919.0	4919.0	4919.0	4919.0	4919.0
2.5°	4931.3	4925.1	4890.6	4818.0	4768.7	4718.2	4689.9	4672.7	4678.8	4650.5	4638.2
5°	4943.6	4912.8	4815.5	4729.3	4651.7	4564.3	4491.6	4481.8	4496.5	4470.7	4455.9
7.5°	4975.6	4910.3	4786.0	4638.2	4508.9	4426.3	4321.6	4268.7	4265.0	4239.1	4244.1
10°	4994.1	4909.1	4742.9	4564.3	4412.8	4266.2	4154.2	4095.0	4091.3	4054.4	4045.8
12.5°	5044.6	4922.7	4692.4	4474.4	4305.6	4109.8	3991.6	3937.4	3931.2	3879.5	3859.8
15°	5122.2	4953.5	4639.4	4369.7	4151.7	3968.2	3826.6	3753.9	3742.8	3682.5	3661.5
17.5°	5245.3	5040.9	4623.4	4274.8	4017.4	3816.7	3650.4	3571.6	3507.6	3474.3	3446.0
20°	5411.6	5149.3	4641.9	4186.2	3848.7	3617.2	3410.3	3306.8	3262.5	3208.3	3212.0
22.5°	5648.1	5319.2	4673.9	4117.2	3696.0	3404.1	3171.3	3055.6	2975.5	2930.0	2932.4
25°	5980.6	5575.4	4736.7	4051.9	3529.7	3171.3	2896.7	2735.4	2654.1	2624.5	2593.7
27.5°	6400.6	5882.1	4885.7	3971.9	3332.7	2907.8	2603.6	2415.1	2332.6	2288.3	2282.1
30°	6940.0	6284.8	5060.6	3912.8	3125.8	2578.9	2240.3	2091.2	2018.6	1955.8	1926.2
32.5°	7597.7	6853.8	5255.2	3853.6	2869.6	2210.7	1904.0	1789.5	1673.7	1593.7	1597.4
35°	8361.3	7473.3	5544.6	3778.5	2569.1	1867.1	1655.3	1507.5	1399.1	1346.1	1321.5
37.5°	9081.7	8108.8	5884.5	3702.2	2232.9	1644.2	1410.2	1273.5	1189.7	1149.1	1157.7
40°	9810.8	8764.0	6177.7	3515.0	1856.0	1442.2	1167.5	1090.0	1056.7	1024.7	1028.4
42.5°	10463.6	9286.2	6392.0	3306.8	1592.4	1210.7	995.1	1012.4	1032.1	1013.6	1008.7
45°	11143.4	9897.1	6580.4	2952.1	1372.0	1028.4	952.0	1000.1	1043.2	1040.7	1034.5
47.5°	11825.7	10463.6	6598.9	2481.7	1171.2	966.8	950.8	986.5	1043.2	1053.0	1045.6
50°	12529.0	11057.2	6490.5	1927.4	1086.3	974.2	952.0	958.2	1021.0	1032.1	1028.4
52.5°	13308.6	11698.9	6223.2	1465.6	1053.0	986.5	955.7	947.1	982.8	1002.5	1006.2
55°	14025.3	12208.8	5722.0	1294.4	1028.4	987.7	982.8	954.5	955.7	945.9	970.5
57.5°	14627.6	12695.2	5153.0	1200.8	1006.2	976.7	995.1	942.2	927.4	886.7	876.9
60°	15250.8	13090.6	4352.4	1136.8	980.3	963.1	964.3	921.2	884.3	825.2	807.9
62.5°	15692.9	13299.9	3575.3	1061.6	944.6	942.2	923.7	891.7	858.4	806.7	799.3
65°	15821.0	13189.1	2746.4	982.8	897.8	907.7	874.4	830.1	692.2	628.1	628.1
67.5°	15397.3	12506.8	2033.4	891.7	841.2	860.9	795.6	654.0	582.5	544.4	550.5
70°	14235.9	11404.5	1324.0	758.7	759.9	775.9	656.4	588.7	521.0	497.6	509.9
72.5°	12684.1	9770.2	873.2	604.7	640.4	613.3	599.8	541.9	481.6	454.5	463.1
75°	10452.5	7714.7	605.9	475.4	415.0	523.4	533.3	455.7	408.9	496.3	516.0
77.5°	8257.8	5362.3	500.0	332.5	306.7	386.7	427.4	422.4	676.1	794.4	785.8
80°	4910.3	3087.6	407.7	230.3	216.8	248.8	336.2	485.2	757.4	569.0	541.9
82.5°	2226.7	1404.0	216.8	120.7	141.6	165.0	251.2	603.5	496.3	364.6	343.6
85°	869.5	458.2	86.2	53.0	49.3	61.6	114.5	290.7	199.5	161.3	161.3
87.5°	112.1	82.5	24.6	18.5	16.0	19.7	36.9	161.3	93.6	78.8	76.4
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)