

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: P510092

Luminaire Tested: **VERD-M-CA4-200-750-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-200-750-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 910mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26804 lumens
Efficiency: N/A
Efficacy: 132.8 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

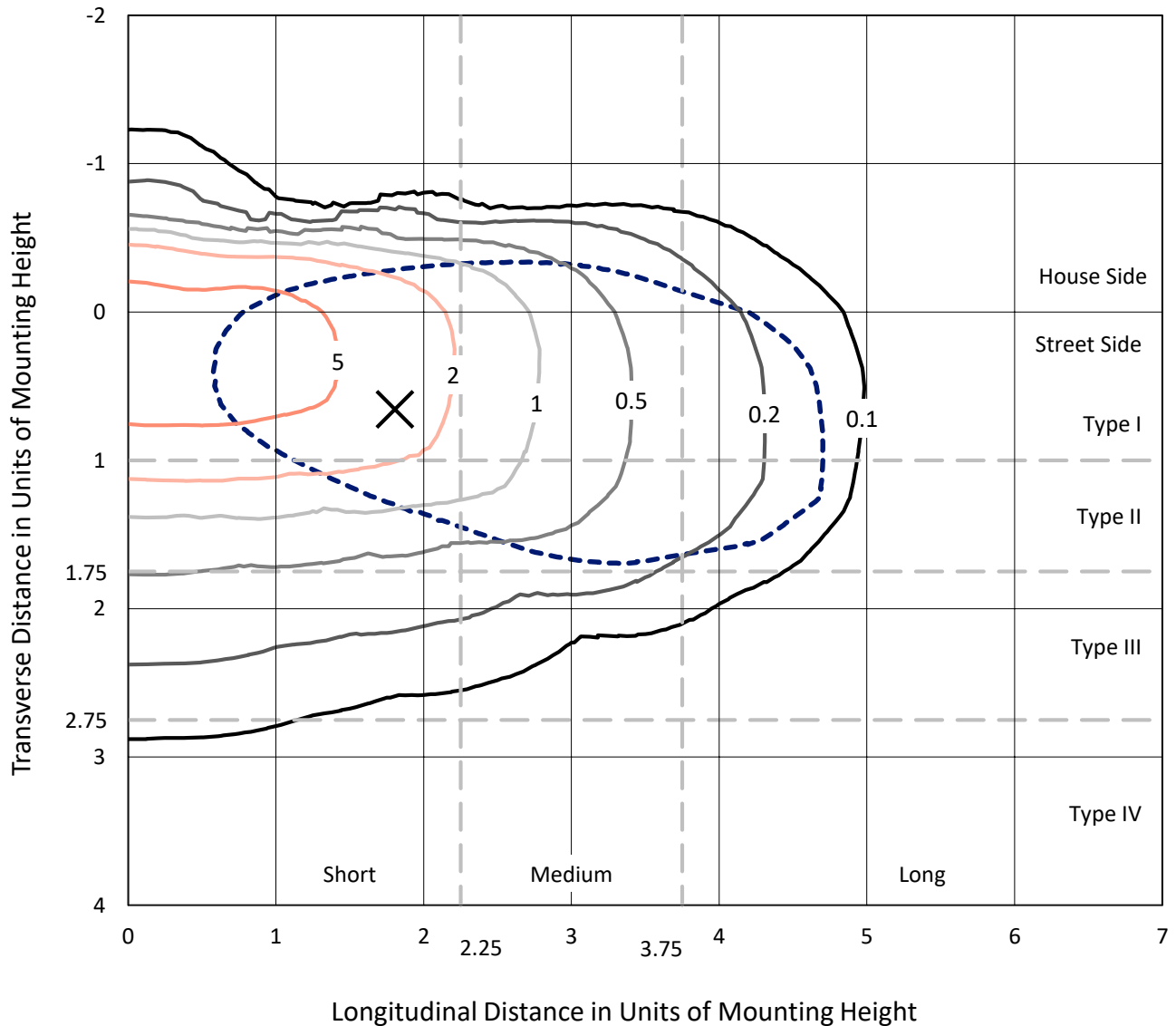
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

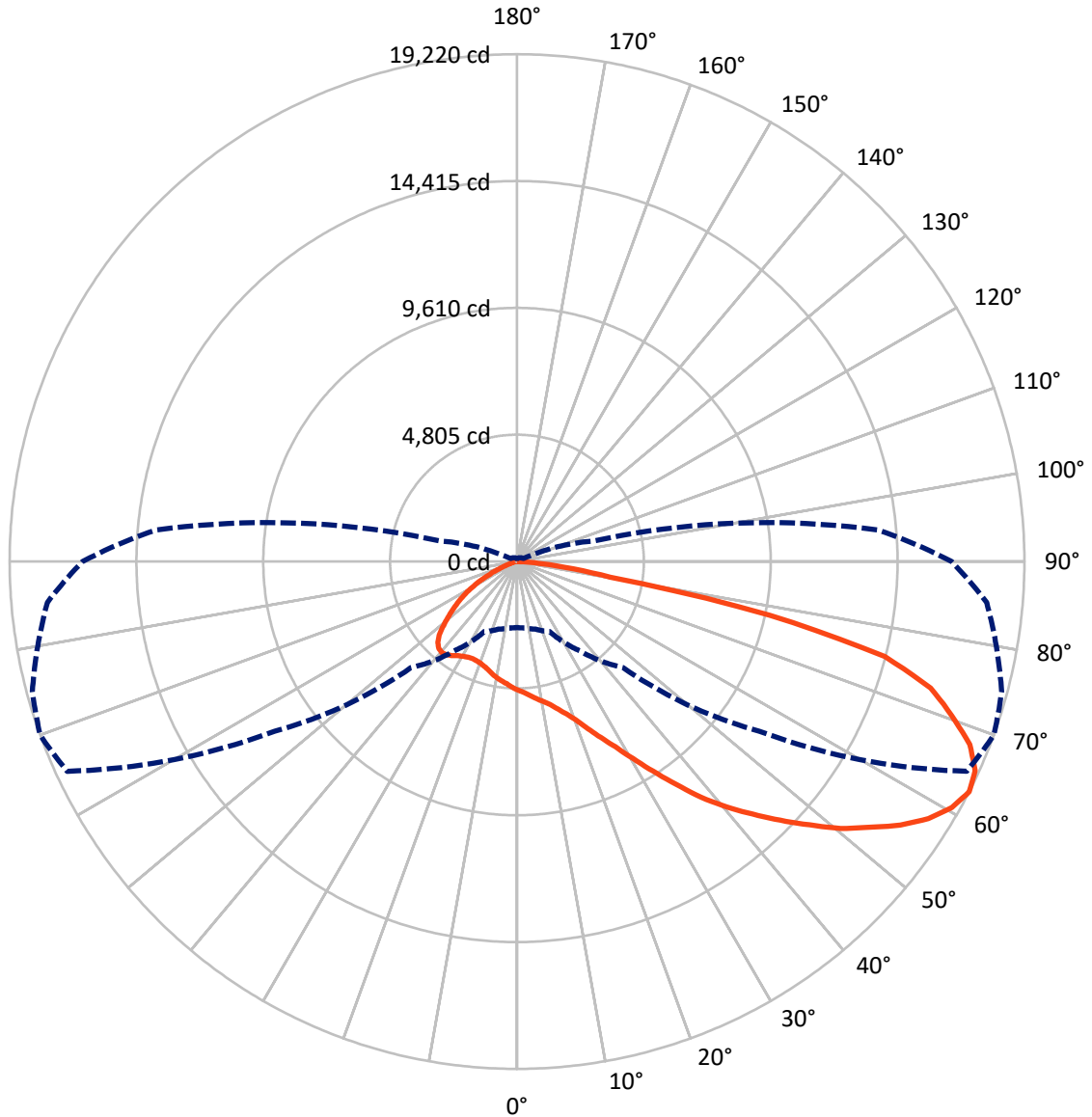
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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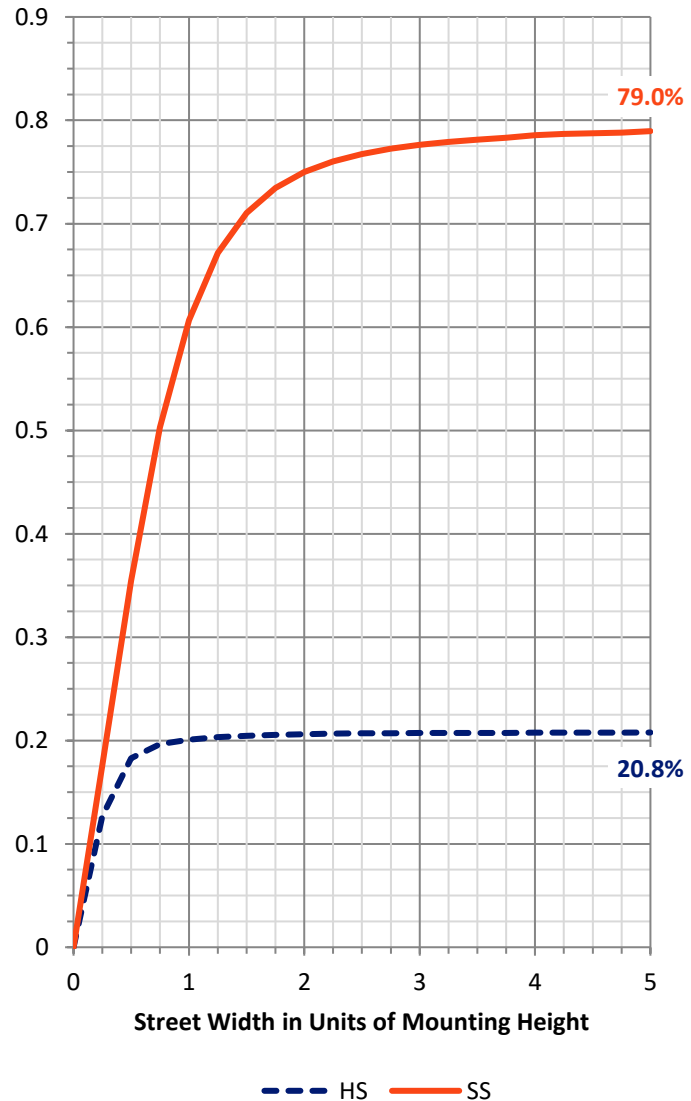
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5636.6	0.0	5636.6
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	21167.4	0.0	21167.4
	% Fixture	79.0	0.0	79.0
Total	Lumens	26804.0	0.0	26804.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.7	1.7
10°-20°	1380.7	5.2
20°-30°	2340.6	8.7
30°-40°	3442.1	12.8
40°-50°	4583.8	17.1
50°-60°	5362.1	20.0
60°-70°	5392.9	20.1
70°-80°	3413.8	12.7
80°-90°	425.4	1.6
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°	26804.0	100.0
0°-180°	26804.0	100.0



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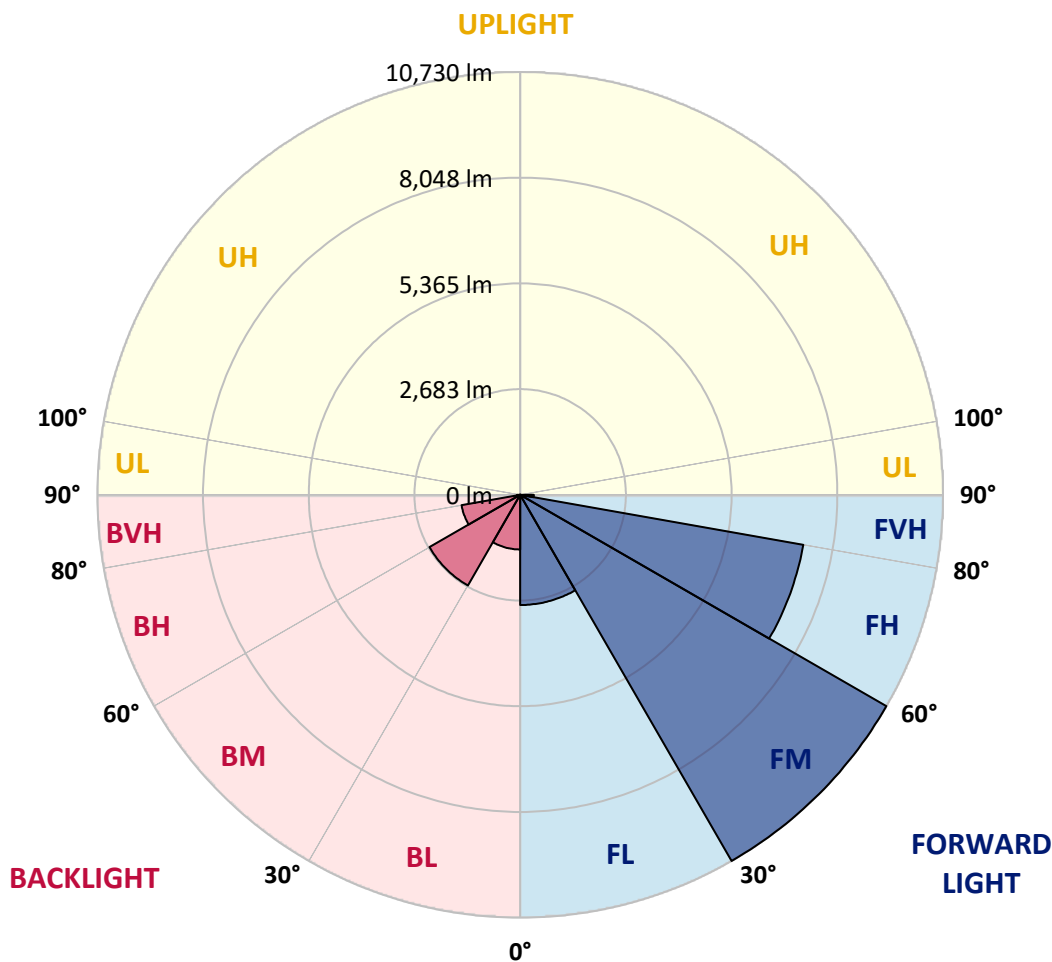
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2796.3	10.4			
FM (30°-60°)	10730.1	40.0			
FH (60°-80°)	7296.1	27.2			G3/7500
FVH (80°-90°)	345.0	1.3			G3/500
BL (0°-30°)	1387.7	5.2	B3/2500		
BM (30°-60°)	2657.7	9.9	B3/5000		
BH (60°-80°)	1510.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	80.4	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9
2.5°	5140.3	5185.3	5150.9	5137.7	5148.3	5095.3	5052.9	4992.0	4962.9	4941.7	4907.3
5°	5401.1	5475.2	5430.2	5402.4	5398.5	5301.8	5244.9	5161.5	5096.6	5039.7	4952.3
7.5°	5676.5	5720.1	5702.9	5671.2	5650.0	5532.2	5431.5	5313.7	5242.2	5166.8	5019.8
10°	5917.4	5970.3	5953.1	5896.2	5876.3	5755.9	5640.7	5480.5	5382.6	5288.6	5086.0
12.5°	6166.3	6225.8	6190.1	6133.2	6116.0	5994.2	5875.0	5680.4	5558.6	5452.7	5172.1
15°	6395.3	6449.6	6424.4	6359.5	6342.3	6239.1	6108.0	5926.7	5794.3	5653.9	5293.9
17.5°	6578.0	6632.2	6600.5	6570.0	6564.7	6462.8	6384.7	6199.4	6073.6	5883.0	5480.5
20°	6711.7	6767.3	6751.4	6765.9	6821.5	6746.1	6698.4	6542.2	6413.8	6207.3	5749.3
22.5°	6817.6	6889.1	6952.6	6981.7	7085.0	7079.7	7069.1	6976.4	6875.8	6661.4	6069.6
25°	6828.2	6910.2	7036.0	7172.3	7360.3	7450.3	7516.5	7502.0	7384.2	7172.3	6513.1
27.5°	6844.0	6928.8	7058.5	7292.8	7629.1	7839.5	7949.4	8016.9	7948.1	7806.4	7017.5
30°	6809.6	6897.0	7059.8	7359.0	7813.1	8203.6	8399.5	8649.7	8657.6	8538.5	7778.6
32.5°	6653.4	6768.6	6965.8	7366.9	7991.8	8583.5	8885.3	9365.9	9470.5	9381.8	8563.7
35°	6392.6	6497.2	6779.2	7296.8	8100.3	8899.9	9451.9	10201.2	10356.1	10350.8	9487.7
37.5°	6104.0	6209.9	6527.7	7131.3	8170.5	9181.9	9951.0	11029.9	11338.3	11273.5	10360.1
40°	5785.0	5896.2	6262.9	6923.5	8136.1	9433.4	10479.2	11833.4	12216.0	12224.0	11194.0
42.5°	5414.3	5505.7	5873.7	6636.2	8022.2	9618.7	10970.3	12679.4	13081.8	13059.3	11980.4
45°	5059.6	5154.9	5476.6	6191.4	7758.8	9722.0	11452.2	13535.8	13976.7	13905.2	12854.1
47.5°	4630.7	4767.0	5133.7	5818.1	7352.4	9714.0	11873.2	14412.2	14907.3	14849.1	13608.7
50°	3563.7	3644.4	4474.4	5432.9	6801.7	9528.7	12284.9	15272.7	15898.8	15785.0	14413.5
52.5°	3210.2	3283.0	3550.4	4970.9	6301.3	9127.6	12627.7	16257.6	16726.2	16637.5	15235.6
55°	3034.1	3073.9	3236.7	4099.8	5812.8	8476.3	12856.7	17132.6	17619.8	17423.8	16004.7
57.5°	2813.1	2862.1	3051.4	3501.4	5211.8	7476.8	12803.8	17921.6	18371.7	18071.2	16682.5
60°	2643.6	2680.7	2858.1	3152.0	4590.9	6441.6	12262.4	18696.0	18922.4	18625.9	17357.7
62.5°	2500.7	2521.8	2646.3	2925.6	4118.3	5685.7	11206.0	18799.3	19220.2	19005.8	17860.7
65°	2323.3	2328.6	2475.5	2693.9	3681.5	5231.7	10299.2	18269.8	19072.0	19000.5	18042.1
67.5°	2115.4	2126.0	2274.3	2441.1	3155.9	4748.5	8886.7	17985.1	18496.1	18451.1	17683.3
70°	1854.6	1875.8	2012.2	2139.3	2672.8	4168.6	7073.1	16859.9	17466.2	17400.0	16501.2
72.5°	1603.1	1591.2	1718.3	1844.1	2226.6	3480.3	5361.4	14923.2	16383.3	16319.8	14965.6
75°	1317.2	1309.2	1440.3	1559.4	1825.5	2811.8	3771.5	11036.5	14395.0	14590.9	12904.4
77.5°	811.5	818.1	893.6	973.0	1236.4	2100.9	2406.7	6139.8	9778.9	11596.5	10127.1
80°	587.8	587.8	643.4	691.0	818.1	1280.1	1198.0	2560.2	3574.3	5597.0	6315.8
82.5°	381.3	365.4	399.8	440.8	455.4	554.7	548.1	1284.1	1821.5	2192.2	2630.4
85°	198.6	219.8	132.4	186.7	197.2	184.0	189.3	602.3	808.8	1036.5	1141.1
87.5°	30.4	23.8	31.8	43.7	50.3	42.4	37.1	70.2	108.6	144.3	170.8
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°	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9
2.5°	4884.8	4878.2	4817.3	4728.6	4655.8	4594.9	4555.2	4528.7	4557.8	4504.9	4498.3
5°	4898.1	4853.0	4720.7	4593.6	4495.6	4364.6	4275.9	4216.3	4240.1	4193.8	4175.3
7.5°	4933.8	4851.7	4669.0	4466.5	4281.2	4140.8	4004.5	3873.4	3853.6	3824.5	3825.8
10°	4965.6	4847.8	4609.5	4344.7	4128.9	3881.4	3717.2	3582.2	3551.8	3517.3	3500.1
12.5°	5015.9	4857.0	4535.3	4215.0	3926.4	3640.4	3463.1	3304.2	3273.8	3206.2	3191.7
15°	5116.5	4890.1	4462.5	4054.8	3698.7	3410.1	3181.1	3042.1	2986.5	2911.0	2909.7
17.5°	5247.5	4986.8	4425.5	3903.9	3505.4	3182.4	2940.2	2799.8	2705.8	2660.8	2648.9
20°	5434.2	5112.5	4424.1	3767.5	3304.2	2938.8	2660.8	2502.0	2422.6	2385.5	2363.0
22.5°	5721.5	5297.8	4448.0	3672.2	3101.7	2703.2	2426.5	2208.1	2077.0	1975.1	1989.7
25°	6078.9	5575.8	4502.2	3584.8	2925.6	2478.2	2131.3	1828.2	1593.9	1491.9	1499.9
27.5°	6533.0	5908.1	4642.6	3496.2	2725.7	2235.9	1746.1	1360.9	1183.5	1064.3	1073.6
30°	7114.1	6321.1	4826.6	3427.3	2540.4	1897.0	1314.5	1003.4	847.2	749.3	740.0
32.5°	7809.1	6919.5	5027.8	3381.0	2337.8	1473.4	947.8	736.0	583.8	528.2	536.1
35°	8669.6	7592.0	5334.9	3313.5	1991.0	1048.4	676.5	497.7	419.6	409.1	410.4
37.5°	9454.6	8280.4	5639.4	3199.6	1571.4	745.3	459.4	378.6	361.4	357.4	362.7
40°	10223.7	8907.8	5914.7	3034.1	1080.2	511.0	337.6	341.5	327.0	316.4	311.1
42.5°	10943.9	9512.8	6130.5	2729.7	738.7	337.6	299.2	311.1	308.4	287.3	278.0
45°	11720.9	10152.2	6249.7	2303.4	464.7	287.3	268.7	289.9	303.2	279.3	268.7
47.5°	12384.1	10775.7	6244.4	1764.6	315.1	271.4	252.8	271.4	287.3	270.1	260.8
50°	13149.3	11292.0	6074.9	1119.9	279.3	251.5	242.3	248.9	270.1	258.1	248.9
52.5°	13999.2	11998.9	5818.1	624.8	264.8	238.3	225.0	233.0	251.5	237.0	242.3
55°	14703.4	12585.4	5214.4	426.3	258.1	222.4	214.5	219.8	227.7	213.1	221.1
57.5°	15332.2	13069.9	4604.2	349.5	248.9	211.8	210.5	199.9	198.6	189.3	181.4
60°	15969.0	13452.5	3780.8	316.4	239.6	213.1	190.6	176.1	164.2	154.9	150.9
62.5°	16457.5	13717.2	2990.5	285.9	226.4	199.9	174.7	150.9	131.1	119.1	119.1
65°	16600.4	13599.4	2104.8	259.5	211.8	188.0	156.2	123.1	99.3	91.3	87.4
67.5°	16142.4	12922.9	1465.4	239.6	197.2	174.7	137.7	100.6	79.4	68.8	66.2
70°	14976.1	11791.1	864.4	211.8	178.7	152.2	125.8	82.1	64.9	54.3	51.6
72.5°	13252.6	10094.0	538.8	180.0	153.6	124.4	94.0	67.5	51.6	42.4	41.0
75°	10946.5	7868.7	352.1	139.0	121.8	98.0	71.5	54.3	45.0	35.7	33.1
77.5°	8778.1	5566.6	315.1	105.9	90.0	70.2	54.3	45.0	37.1	31.8	31.8
80°	5051.6	3177.1	258.1	72.8	55.6	53.0	42.4	37.1	34.4	30.4	29.1
82.5°	2482.1	1526.3	166.8	45.0	31.8	34.4	35.7	33.1	29.1	26.5	26.5
85°	855.2	508.3	67.5	29.1	21.2	21.2	22.5	23.8	22.5	21.2	21.2
87.5°	132.4	96.6	18.5	17.2	13.2	11.9	13.2	14.6	14.6	13.2	13.2
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)