

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: P509868

Luminaire Tested: **VERD-M-CA3-160-722-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509868
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-CA3-160-722-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 1000mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17389 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

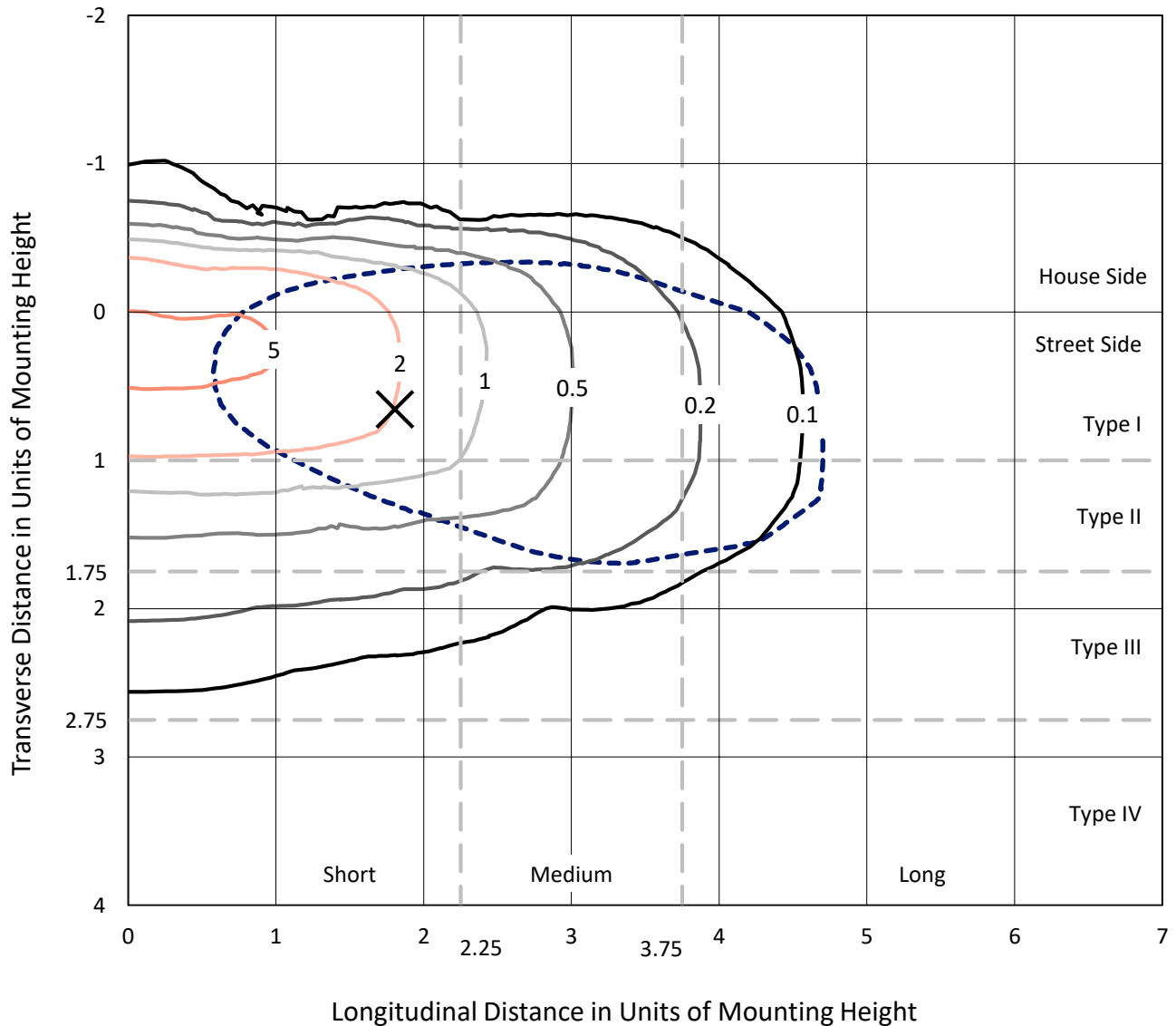
Input Watts (W): 162.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

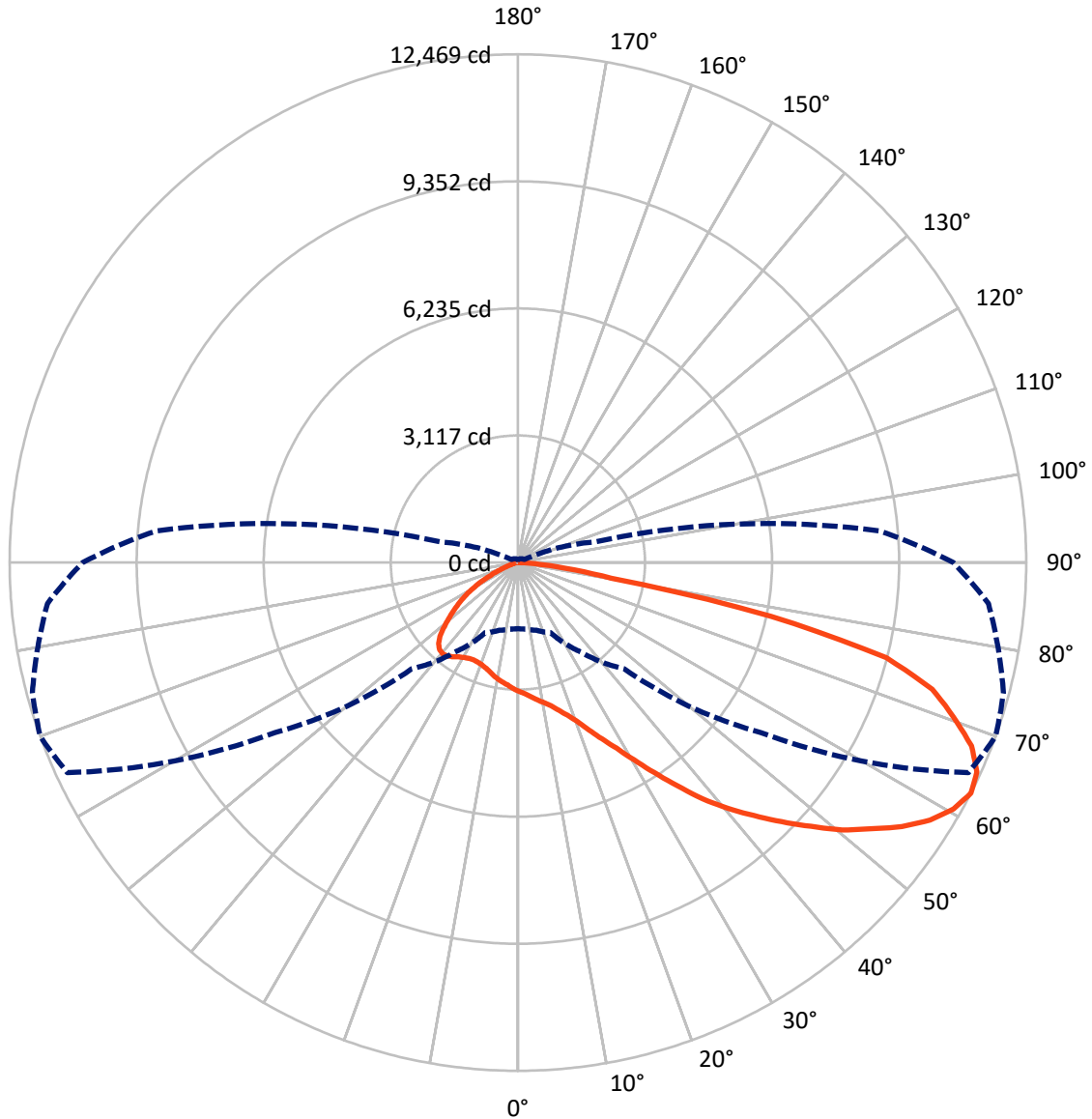
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	3656.7	0.0	3656.7
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	13732.3	0.0	13732.3
	% Fixture	79.0	0.0	79.0
Total	Lumens	17389.0	0.0	17389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.1	1.7
10°-20°	895.7	5.2
20°-30°	1518.5	8.7
30°-40°	2233.0	12.8
40°-50°	2973.7	17.1
50°-60°	3478.6	20.0
60°-70°	3498.6	20.1
70°-80°	2214.7	12.7
80°-90°	276.0	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°	17389.0	100.0
0°-180°	17389.0	100.0

Coefficient of Utilization



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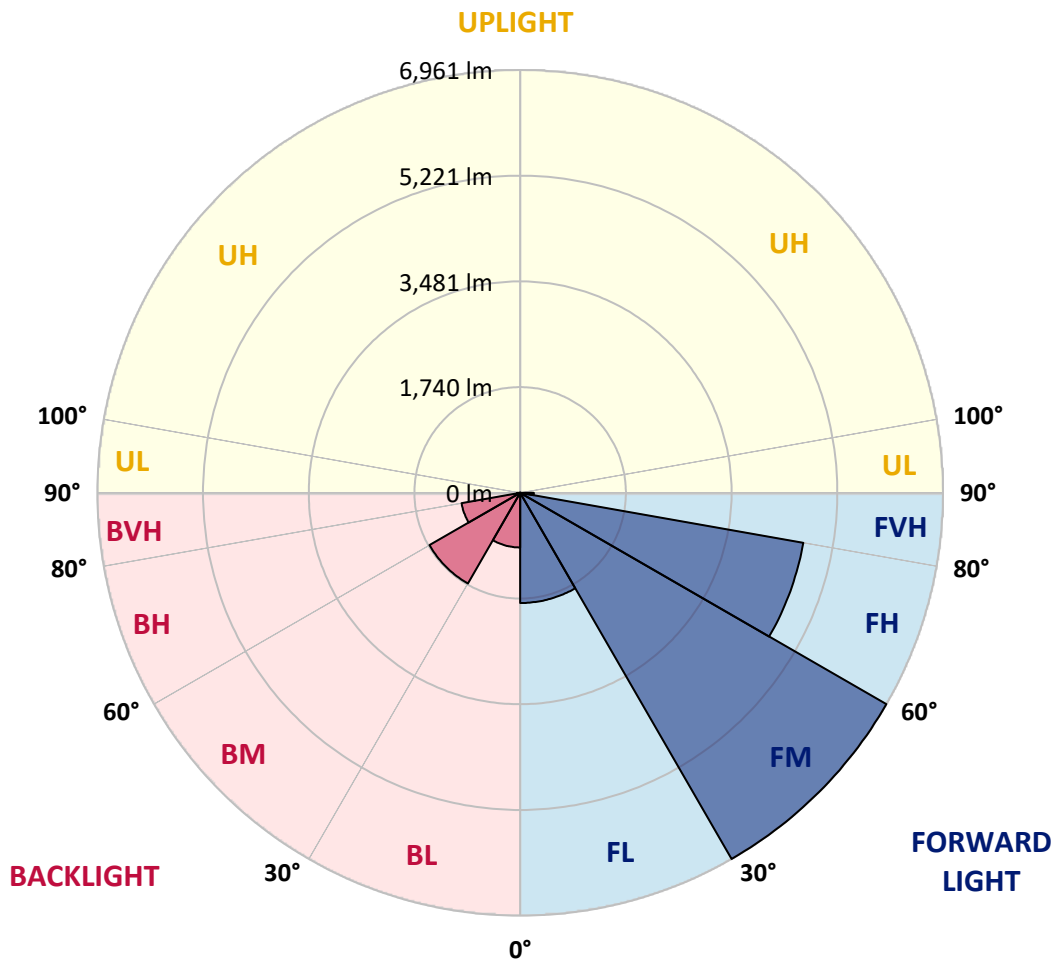
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1814.1	10.4			
FM (30°-60°)	6961.1	40.0			
FH (60°-80°)	4733.3	27.2			G2/5000
FVH (80°-90°)	223.8	1.3			G2/225
BL (0°-30°)	900.3	5.2	B2/1000		
BM (30°-60°)	1724.2	9.9	B2/2500		
BH (60°-80°)	980.1	5.6	B2/1000		G2/1000
BVH (80°-90°)	52.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3161.3	3161.3	3161.3	3161.3	3161.3	3161.3	3161.3	3161.3	3161.3	3161.3	3161.3
2.5°	3334.8	3364.0	3341.6	3333.0	3339.9	3305.6	3278.1	3238.6	3219.7	3205.9	3183.6
5°	3503.9	3552.0	3522.8	3504.8	3502.2	3439.5	3402.6	3348.5	3306.4	3269.5	3212.8
7.5°	3682.6	3710.9	3699.8	3679.1	3665.4	3589.0	3523.7	3447.3	3400.9	3351.9	3256.6
10°	3838.9	3873.2	3862.1	3825.1	3812.3	3734.1	3659.4	3555.5	3491.9	3430.9	3299.5
12.5°	4000.3	4039.0	4015.8	3978.9	3967.7	3888.7	3811.4	3685.2	3606.1	3537.4	3355.4
15°	4148.9	4184.1	4167.8	4125.7	4114.6	4047.6	3962.6	3844.9	3759.0	3668.0	3434.4
17.5°	4267.4	4302.6	4282.0	4262.3	4258.8	4192.7	4142.0	4021.8	3940.2	3816.6	3555.5
20°	4354.2	4390.2	4379.9	4389.4	4425.4	4376.5	4345.6	4244.2	4160.9	4027.0	3729.8
22.5°	4422.9	4469.2	4510.5	4529.4	4596.4	4592.9	4586.0	4525.9	4460.7	4321.5	3937.6
25°	4429.7	4483.0	4564.6	4653.0	4775.0	4833.4	4876.3	4866.9	4790.4	4653.0	4225.3
27.5°	4440.0	4495.0	4579.2	4731.2	4949.3	5085.9	5157.2	5201.0	5156.3	5064.4	4552.6
30°	4417.7	4474.4	4580.0	4774.1	5068.7	5322.0	5449.2	5611.5	5616.6	5539.3	5046.4
32.5°	4316.4	4391.1	4519.1	4779.3	5184.6	5568.5	5764.3	6076.1	6143.9	6086.4	5555.6
35°	4147.2	4215.0	4398.0	4733.8	5255.1	5773.8	6131.9	6618.0	6718.5	6715.0	6155.1
37.5°	3960.0	4028.7	4234.8	4626.4	5300.6	5956.7	6455.7	7155.6	7355.7	7313.6	6721.0
40°	3753.0	3825.1	4063.0	4491.6	5278.2	6119.9	6798.3	7676.9	7925.1	7930.3	7262.1
42.5°	3512.5	3571.8	3810.5	4305.2	5204.4	6240.1	7117.0	8225.7	8486.8	8472.2	7772.2
45°	3282.4	3344.2	3552.9	4016.7	5033.5	6307.1	7429.6	8781.3	9067.3	9020.9	8339.0
47.5°	3004.1	3092.6	3330.5	3774.5	4769.8	6301.9	7702.7	9349.9	9671.1	9633.3	8828.6
50°	2311.9	2364.3	2902.8	3524.6	4412.6	6181.7	7969.8	9908.1	10314.3	10240.5	9350.7
52.5°	2082.6	2129.8	2303.3	3224.8	4087.9	5921.5	8192.2	10547.0	10851.1	10793.5	9884.0
55°	1968.4	1994.2	2099.8	2659.7	3771.0	5499.0	8340.8	11114.7	11430.8	11303.7	10383.0
57.5°	1825.0	1856.7	1979.6	2271.6	3381.1	4850.6	8306.4	11626.6	11918.6	11723.6	10822.7
60°	1715.0	1739.1	1854.2	2044.8	2978.4	4179.0	7955.2	12129.0	12275.8	12083.5	11260.7
62.5°	1622.3	1636.0	1716.8	1898.0	2671.8	3688.6	7269.8	12196.0	12469.1	12329.9	11587.1
65°	1507.2	1510.6	1606.0	1747.7	2388.4	3394.0	6681.5	11852.4	12372.9	12326.5	11704.7
67.5°	1372.4	1379.2	1475.4	1583.6	2047.4	3080.6	5765.2	11667.8	11999.3	11970.1	11472.0
70°	1203.2	1216.9	1305.4	1387.8	1733.9	2704.4	4588.6	10937.8	11331.1	11288.2	10705.1
72.5°	1040.0	1032.3	1114.7	1196.3	1444.5	2257.8	3478.2	9681.4	10628.6	10587.4	9708.8
75°	854.5	849.4	934.4	1011.7	1184.3	1824.1	2446.8	7159.9	9338.7	9465.8	8371.7
77.5°	526.5	530.7	579.7	631.2	802.1	1362.9	1561.3	3983.2	6344.0	7523.2	6569.9
80°	381.3	381.3	417.4	448.3	530.7	830.5	777.2	1660.9	2318.8	3631.0	4097.4
82.5°	247.3	237.0	259.4	286.0	295.4	359.8	355.5	833.0	1181.7	1422.2	1706.5
85°	128.8	142.6	85.9	121.1	128.0	119.4	122.8	390.8	524.7	672.4	740.3
87.5°	19.8	15.5	20.6	28.3	32.6	27.5	24.0	45.5	70.4	93.6	110.8
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°	3161.3	3161.3	3161.3	3161.3	3161.3	3161.3	3161.3	3161.3	3161.3	3161.3	3161.3
2.5°	3169.0	3164.7	3125.2	3067.7	3020.4	2980.9	2955.2	2938.0	2956.9	2922.5	2918.2
5°	3177.6	3148.4	3062.5	2980.1	2916.5	2831.5	2774.0	2735.3	2750.8	2720.7	2708.7
7.5°	3200.8	3147.5	3029.0	2897.6	2777.4	2686.4	2597.9	2512.9	2500.0	2481.1	2482.0
10°	3221.4	3145.0	2990.4	2818.6	2678.6	2518.0	2411.5	2323.9	2304.2	2281.9	2270.7
12.5°	3254.0	3151.0	2942.3	2734.5	2547.2	2361.7	2246.6	2143.6	2123.8	2080.0	2070.6
15°	3319.3	3172.4	2895.0	2630.5	2399.5	2212.3	2063.7	1973.5	1937.5	1888.5	1887.7
17.5°	3404.3	3235.1	2871.0	2532.6	2274.1	2064.6	1907.4	1816.4	1755.4	1726.2	1718.5
20°	3525.4	3316.7	2870.1	2444.2	2143.6	1906.6	1726.2	1623.2	1571.6	1547.6	1533.0
22.5°	3711.8	3437.0	2885.6	2382.3	2012.2	1753.7	1574.2	1432.5	1347.5	1281.3	1290.8
25°	3943.7	3617.3	2920.8	2325.7	1898.0	1607.7	1382.7	1186.0	1034.0	967.9	973.0
27.5°	4238.2	3832.9	3011.8	2268.1	1768.3	1450.5	1132.8	882.9	767.8	690.5	696.5
30°	4615.2	4100.8	3131.2	2223.5	1648.1	1230.7	852.8	651.0	549.6	486.1	480.1
32.5°	5066.1	4489.0	3261.8	2193.4	1516.7	955.9	614.9	477.5	378.7	342.7	347.8
35°	5624.3	4925.3	3461.0	2149.6	1291.7	680.2	438.9	322.9	272.2	265.4	266.2
37.5°	6133.6	5371.9	3658.5	2075.7	1019.4	483.5	298.0	245.6	234.5	231.9	235.3
40°	6632.6	5778.9	3837.2	1968.4	700.8	331.5	219.0	221.6	212.1	205.3	201.8
42.5°	7099.8	6171.4	3977.2	1770.9	479.2	219.0	194.1	201.8	200.1	186.4	180.4
45°	7603.9	6586.2	4054.4	1494.3	301.4	186.4	174.3	188.1	196.7	181.2	174.3
47.5°	8034.2	6990.7	4051.0	1144.8	204.4	176.1	164.0	176.1	186.4	175.2	169.2
50°	8530.6	7325.7	3941.1	726.6	181.2	163.2	157.2	161.5	175.2	167.5	161.5
52.5°	9081.9	7784.3	3774.5	405.4	171.8	154.6	146.0	151.2	163.2	153.7	157.2
55°	9538.8	8164.7	3382.9	276.5	167.5	144.3	139.1	142.6	147.7	138.3	143.4
57.5°	9946.7	8479.0	2986.9	226.7	161.5	137.4	136.6	129.7	128.8	122.8	117.7
60°	10359.8	8727.2	2452.8	205.3	155.4	138.3	123.7	114.2	106.5	100.5	97.9
62.5°	10676.7	8899.0	1940.1	185.5	146.9	129.7	113.4	97.9	85.0	77.3	77.3
65°	10769.5	8822.6	1365.5	168.3	137.4	122.0	101.3	79.9	64.4	59.3	56.7
67.5°	10472.3	8383.7	950.7	155.4	128.0	113.4	89.3	65.3	51.5	44.7	42.9
70°	9715.7	7649.4	560.8	137.4	115.9	98.8	81.6	53.2	42.1	35.2	33.5
72.5°	8597.5	6548.4	349.5	116.8	99.6	80.7	61.0	43.8	33.5	27.5	26.6
75°	7101.5	5104.8	228.4	90.2	79.0	63.6	46.4	35.2	29.2	23.2	21.5
77.5°	5694.8	3611.3	204.4	68.7	58.4	45.5	35.2	29.2	24.0	20.6	20.6
80°	3277.2	2061.1	167.5	47.2	36.1	34.4	27.5	24.0	22.3	19.8	18.9
82.5°	1610.3	990.2	108.2	29.2	20.6	22.3	23.2	21.5	18.9	17.2	17.2
85°	554.8	329.8	43.8	18.9	13.7	13.7	14.6	15.5	14.6	13.7	13.7
87.5°	85.9	62.7	12.0	11.2	8.6	7.7	8.6	9.4	9.4	8.6	8.6
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)