

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: P509964

Luminaire Tested: **VERD-M-CA3-180-722-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509964
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-CA3-180-722-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19027 lumens
Efficiency: N/A
Efficacy: 103.9 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

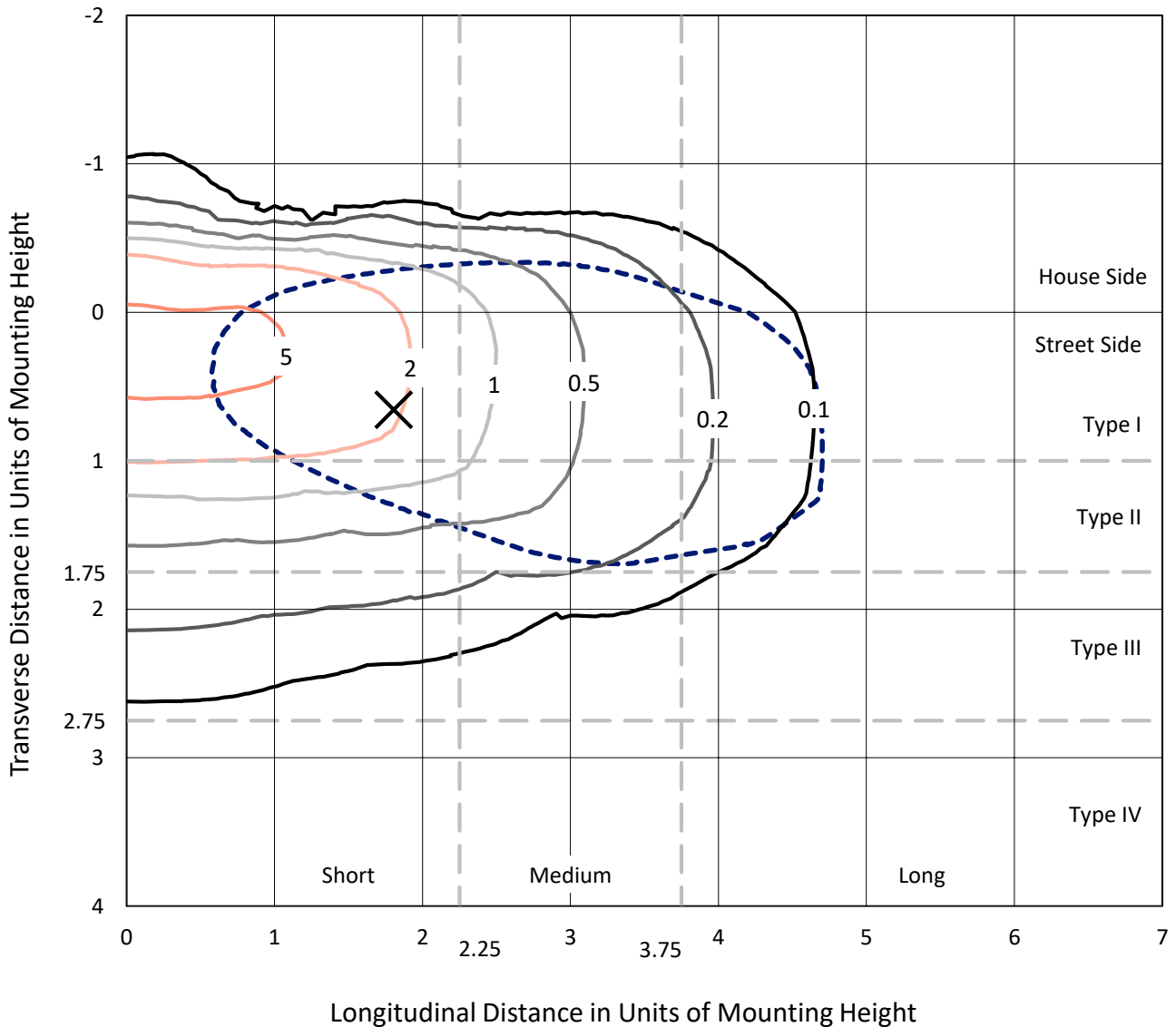
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

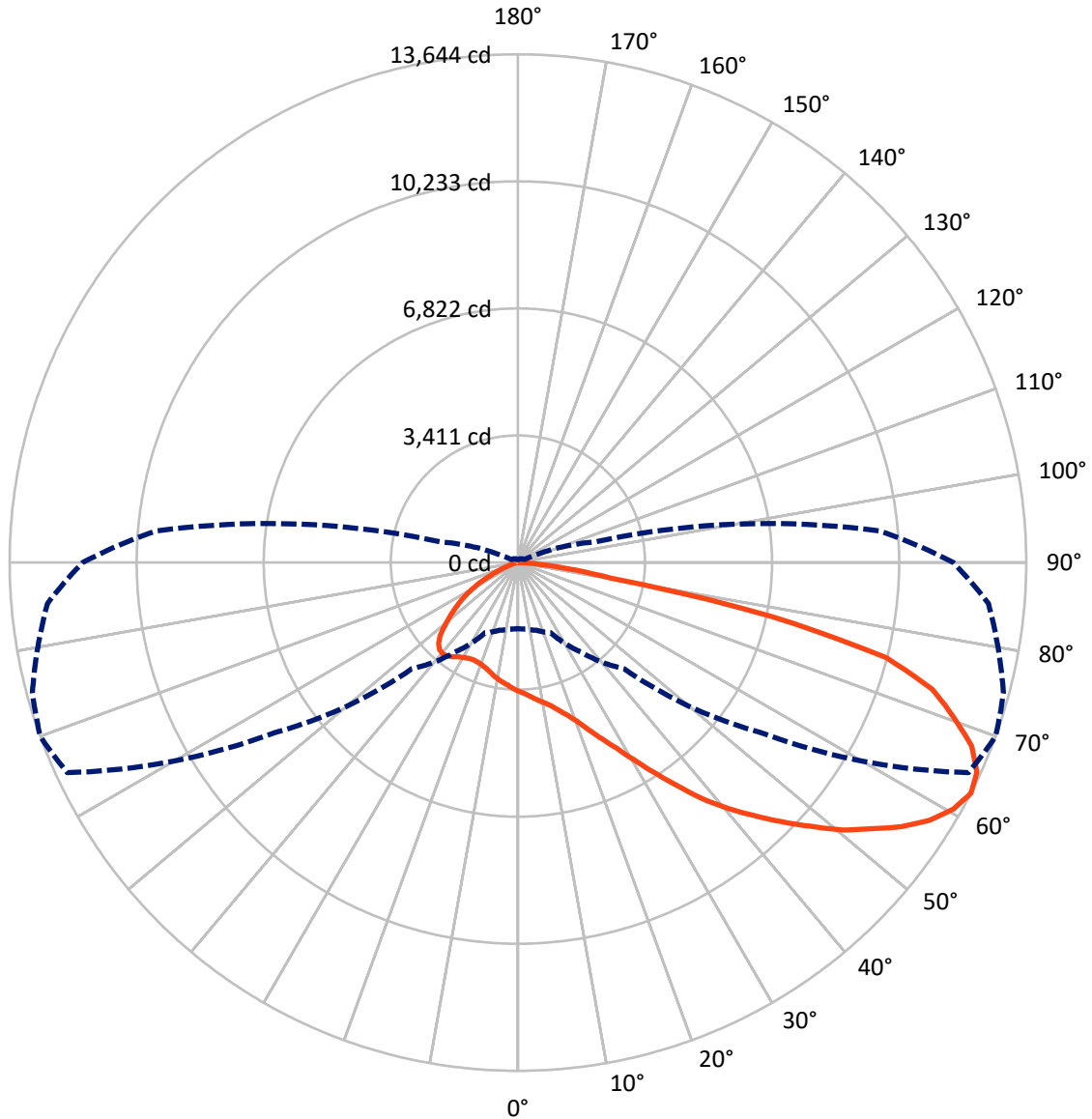
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	4001.2	0.0	4001.2
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	15025.8	0.0	15025.8
	% Fixture	79.0	0.0	79.0
Total	Lumens	19027.0	0.0	19027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.4	1.7
10°-20°	980.1	5.2
20°-30°	1661.5	8.7
30°-40°	2443.4	12.8
40°-50°	3253.8	17.1
50°-60°	3806.3	20.0
60°-70°	3828.2	20.1
70°-80°	2423.3	12.7
80°-90°	302.0	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°	19027.0	100.0
0°-180°	19027.0	100.0

Coefficient of Utilization



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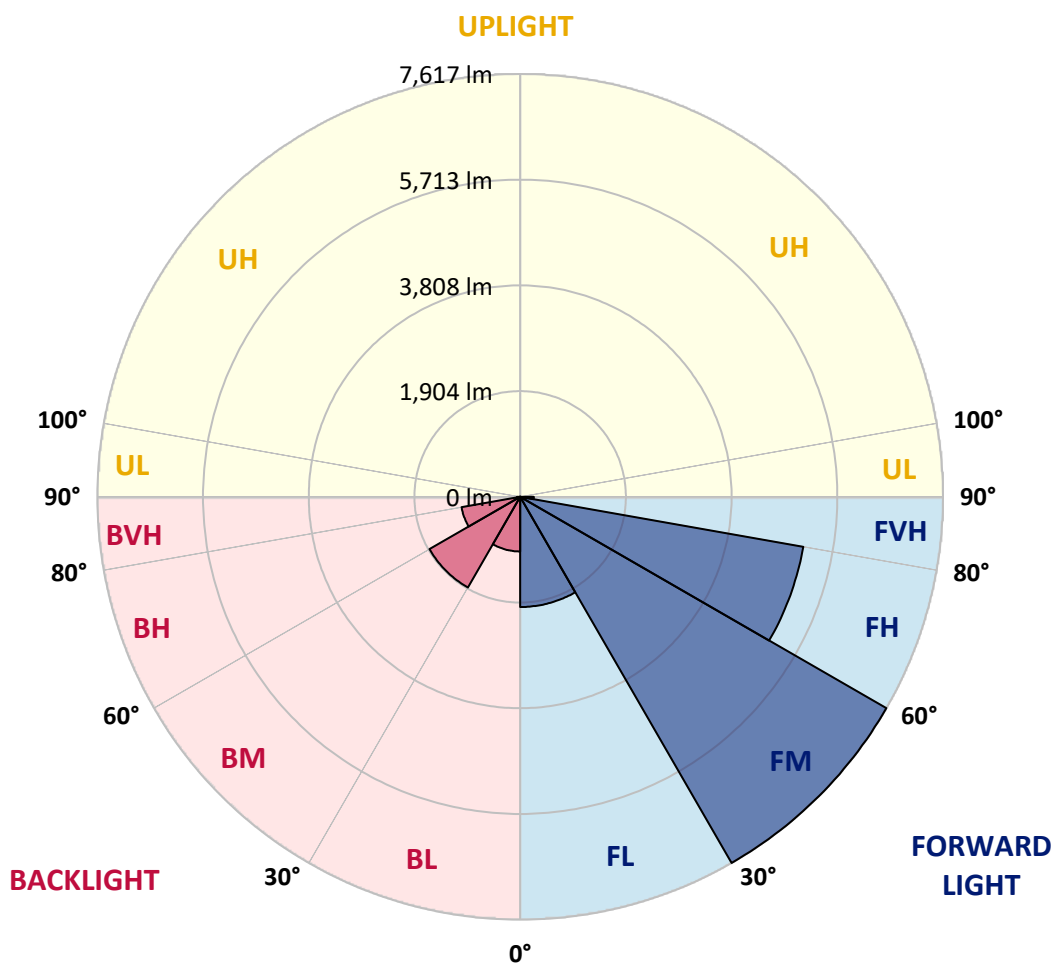
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.9	10.4			
FM (30°-60°)	7616.9	40.0			
FH (60°-80°)	5179.2	27.2			G3/7500
FVH (80°-90°)	244.9	1.3			G3/500
BL (0°-30°)	985.1	5.2	B2/1000		
BM (30°-60°)	1886.6	9.9	B2/2500		
BH (60°-80°)	1072.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	57.1	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°	3459.1	3459.1	3459.1	3459.1	3459.1	3459.1	3459.1	3459.1	3459.1	3459.1	3459.1
2.5°	3648.9	3680.8	3656.4	3647.0	3654.5	3616.9	3586.9	3543.6	3523.0	3507.9	3483.5
5°	3834.0	3886.6	3854.7	3834.9	3832.1	3763.5	3723.1	3663.9	3617.9	3577.5	3515.4
7.5°	4029.5	4060.5	4048.3	4025.7	4010.7	3927.0	3855.6	3772.0	3721.2	3667.7	3563.4
10°	4200.5	4238.1	4225.9	4185.5	4171.4	4085.9	4004.1	3890.4	3820.9	3754.1	3610.4
12.5°	4377.2	4419.4	4394.1	4353.7	4341.5	4255.0	4170.4	4032.3	3945.8	3870.7	3671.4
15°	4539.7	4578.3	4560.4	4514.4	4502.1	4428.8	4335.8	4207.1	4113.1	4013.5	3757.9
17.5°	4669.4	4707.9	4685.4	4663.8	4660.0	4587.7	4532.2	4400.7	4311.4	4176.1	3890.4
20°	4764.3	4803.8	4792.5	4802.8	4842.3	4788.8	4754.9	4644.0	4552.9	4406.3	4081.2
22.5°	4839.5	4890.2	4935.3	4956.0	5029.3	5025.6	5018.0	4952.3	4880.8	4728.6	4308.6
25°	4847.0	4905.3	4994.5	5091.3	5224.8	5288.7	5335.7	5325.3	5241.7	5091.3	4623.4
27.5°	4858.3	4918.4	5010.5	5176.9	5415.5	5565.0	5642.9	5690.9	5642.0	5541.5	4981.4
30°	4833.9	4895.9	5011.5	5223.8	5546.2	5823.4	5962.4	6140.1	6145.7	6061.1	5521.7
32.5°	4723.0	4804.7	4944.7	5229.5	5673.0	6093.1	6307.3	6648.4	6722.7	6659.7	6079.0
35°	4537.8	4612.1	4812.2	5179.7	5750.1	6317.7	6709.5	7241.4	7351.3	7347.6	6734.9
37.5°	4333.0	4408.2	4633.7	5062.2	5799.9	6517.8	7063.8	7829.6	8048.6	8002.6	7354.2
40°	4106.5	4185.5	4445.8	4914.7	5775.4	6696.4	7438.7	8400.0	8671.6	8677.3	7946.2
42.5°	3843.4	3908.2	4169.5	4710.8	5694.6	6827.9	7787.4	9000.5	9286.2	9270.2	8504.4
45°	3591.6	3659.2	3887.6	4395.0	5507.6	6901.2	8129.4	9608.5	9921.4	9870.7	9124.6
47.5°	3287.1	3383.9	3644.2	4130.0	5219.1	6895.6	8428.2	10230.6	10582.1	10540.7	9660.2
50°	2529.7	2587.0	3176.2	3856.6	4828.2	6764.0	8720.5	10841.4	11285.9	11205.1	10231.5
52.5°	2278.8	2330.5	2520.3	3528.6	4473.0	6479.3	8963.9	11540.6	11873.2	11810.3	10815.1
55°	2153.8	2182.0	2297.6	2910.3	4126.3	6017.0	9126.4	12161.7	12507.5	12368.4	11361.1
57.5°	1996.9	2031.6	2166.0	2485.5	3699.6	5307.5	9088.9	12721.8	13041.3	12828.0	11842.2
60°	1876.6	1902.9	2028.8	2237.4	3258.9	4572.6	8704.5	13271.5	13432.2	13221.7	12321.5
62.5°	1775.1	1790.1	1878.5	2076.8	2923.4	4036.0	7954.6	13344.8	13643.6	13491.4	12678.5
65°	1649.2	1652.9	1757.3	1912.3	2613.3	3713.7	7310.9	12968.9	13538.4	13487.6	12807.3
67.5°	1501.7	1509.2	1614.4	1732.8	2240.3	3370.7	6308.3	12766.9	13129.6	13097.7	12552.6
70°	1316.5	1331.6	1428.4	1518.6	1897.3	2959.1	5020.9	11968.1	12398.5	12351.5	11713.5
72.5°	1138.0	1129.5	1219.7	1309.0	1580.6	2470.5	3805.8	10593.3	11629.8	11584.7	10623.4
75°	935.0	929.4	1022.4	1107.0	1295.9	1995.9	2677.2	7834.3	10218.4	10357.5	9160.3
77.5°	576.0	580.7	634.3	690.7	877.7	1491.3	1708.4	4358.4	6941.6	8231.8	7188.8
80°	417.2	417.2	456.7	490.5	580.7	908.7	850.4	1817.4	2537.2	3973.1	4483.3
82.5°	270.6	259.4	283.8	312.9	323.3	393.7	389.0	911.5	1293.0	1556.2	1867.2
85°	141.0	156.0	94.0	132.5	140.0	130.6	134.4	427.6	574.2	735.8	810.0
87.5°	21.6	16.9	22.6	31.0	35.7	30.1	26.3	49.8	77.1	102.4	121.2
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°	3459.1	3459.1	3459.1	3459.1	3459.1	3459.1	3459.1	3459.1	3459.1	3459.1	3459.1
2.5°	3467.5	3462.8	3419.6	3356.6	3305.0	3261.7	3233.5	3214.7	3235.4	3197.8	3193.1
5°	3476.9	3445.0	3351.0	3260.8	3191.2	3098.2	3035.3	2993.0	3009.9	2977.0	2963.8
7.5°	3502.3	3444.0	3314.4	3170.6	3039.0	2939.4	2842.6	2749.6	2735.5	2714.8	2715.8
10°	3524.8	3441.2	3272.1	3084.1	2930.9	2755.2	2638.7	2542.8	2521.2	2496.8	2484.6
12.5°	3560.6	3447.8	3219.4	2992.0	2787.2	2584.2	2458.3	2345.5	2323.9	2276.0	2265.6
15°	3632.0	3471.3	3167.8	2878.3	2625.5	2420.7	2258.1	2159.4	2120.0	2066.4	2065.5
17.5°	3725.0	3539.9	3141.4	2771.2	2488.3	2259.1	2087.1	1987.5	1920.8	1888.8	1880.4
20°	3857.5	3629.2	3140.5	2674.4	2345.5	2086.2	1888.8	1776.0	1719.7	1693.4	1677.4
22.5°	4061.4	3760.7	3157.4	2606.7	2201.7	1918.9	1722.5	1567.4	1474.4	1402.0	1412.4
25°	4315.1	3958.1	3195.9	2544.7	2076.8	1759.1	1512.9	1297.7	1131.4	1059.1	1064.7
27.5°	4637.5	4193.9	3295.6	2481.8	1934.9	1587.2	1239.5	966.0	840.1	755.5	762.1
30°	5050.0	4487.1	3426.2	2432.9	1803.3	1346.6	933.1	712.3	601.4	531.9	525.3
32.5°	5543.3	4911.9	3569.0	2400.0	1659.5	1045.9	672.8	522.5	414.4	374.9	380.6
35°	6154.1	5389.2	3787.0	2352.1	1413.3	744.2	480.2	353.3	297.9	290.4	291.3
37.5°	6711.4	5877.9	4003.2	2271.3	1115.4	529.1	326.1	268.8	256.5	253.7	257.5
40°	7257.4	6323.3	4198.6	2153.8	766.8	362.7	239.6	242.4	232.1	224.6	220.8
42.5°	7768.6	6752.7	4351.8	1937.7	524.4	239.6	212.4	220.8	219.0	203.9	197.3
45°	8320.2	7206.6	4436.4	1635.1	329.8	203.9	190.8	205.8	215.2	198.3	190.8
47.5°	8791.0	7649.2	4432.6	1252.6	223.7	192.6	179.5	192.6	203.9	191.7	185.1
50°	9334.1	8015.7	4312.3	795.0	198.3	178.5	172.0	176.7	191.7	183.2	176.7
52.5°	9937.4	8517.5	4130.0	443.5	187.9	169.1	159.8	165.4	178.5	168.2	172.0
55°	10437.3	8933.8	3701.5	302.6	183.2	157.9	152.2	156.0	161.6	151.3	156.9
57.5°	10883.7	9277.7	3268.3	248.1	176.7	150.4	149.4	141.9	141.0	134.4	128.7
60°	11335.7	9549.3	2683.8	224.6	170.1	151.3	135.3	125.0	116.5	109.9	107.1
62.5°	11682.4	9737.3	2122.8	203.0	160.7	141.9	124.0	107.1	93.0	84.6	84.6
65°	11783.9	9653.6	1494.1	184.2	150.4	133.4	110.9	87.4	70.5	64.8	62.0
67.5°	11458.8	9173.4	1040.3	170.1	140.0	124.0	97.7	71.4	56.4	48.9	47.0
70°	10630.9	8370.0	613.6	150.4	126.9	108.1	89.3	58.3	46.0	38.5	36.6
72.5°	9407.4	7165.3	382.5	127.8	109.0	88.3	66.7	47.9	36.6	30.1	29.1
75°	7770.4	5585.6	250.0	98.7	86.5	69.5	50.7	38.5	32.0	25.4	23.5
77.5°	6231.2	3951.5	223.7	75.2	63.9	49.8	38.5	32.0	26.3	22.6	22.6
80°	3585.9	2255.3	183.2	51.7	39.5	37.6	30.1	26.3	24.4	21.6	20.7
82.5°	1762.0	1083.5	118.4	32.0	22.6	24.4	25.4	23.5	20.7	18.8	18.8
85°	607.1	360.8	47.9	20.7	15.0	15.0	16.0	16.9	16.0	15.0	15.0
87.5°	94.0	68.6	13.2	12.2	9.4	8.5	9.4	10.3	10.3	9.4	9.4
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)