

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: P233840

Luminaire Tested: **VERD-G-C02H-D-U-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02H-D-U-T2-7030
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1370mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18476 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

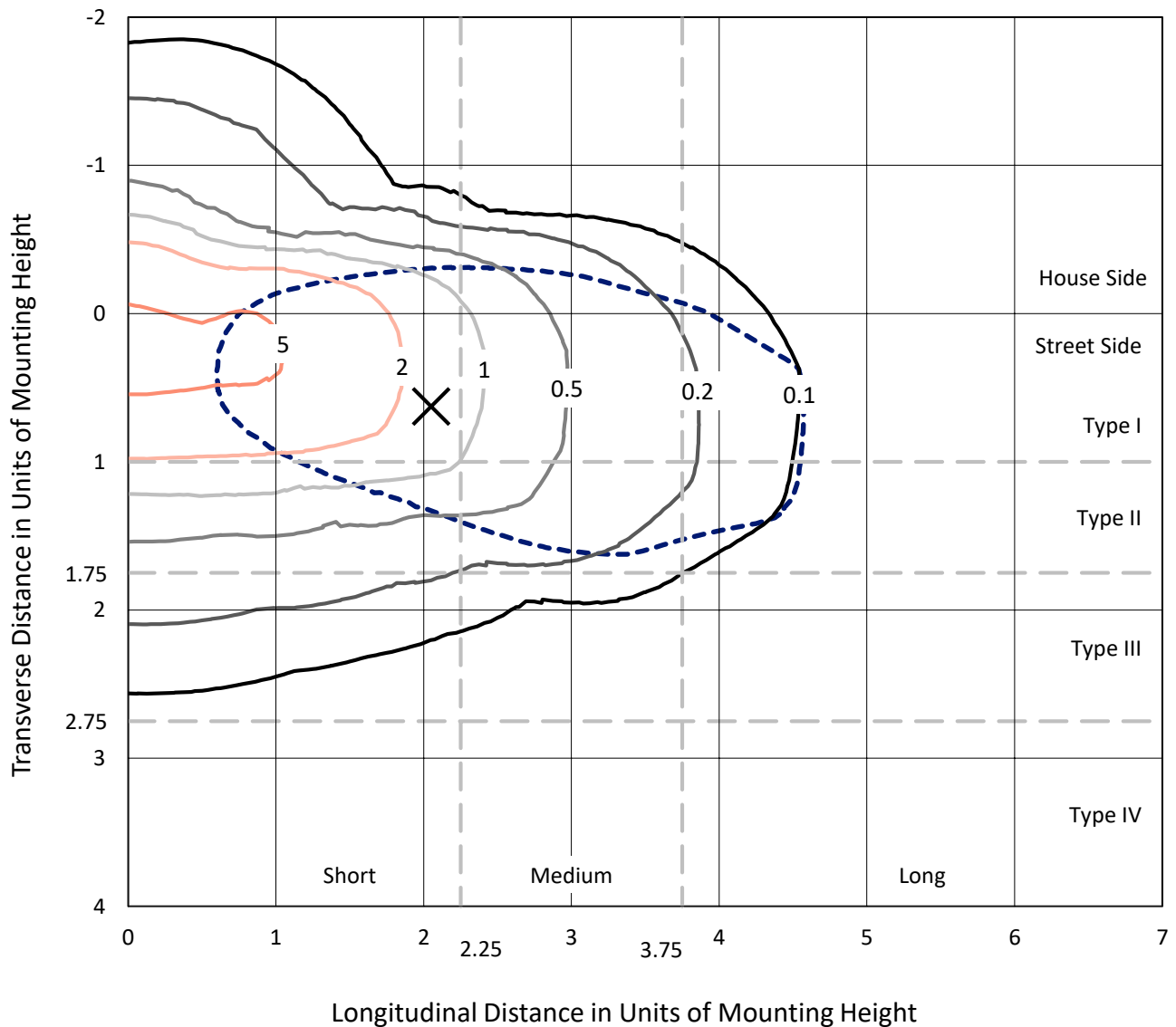
Input Watts (W): 155
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

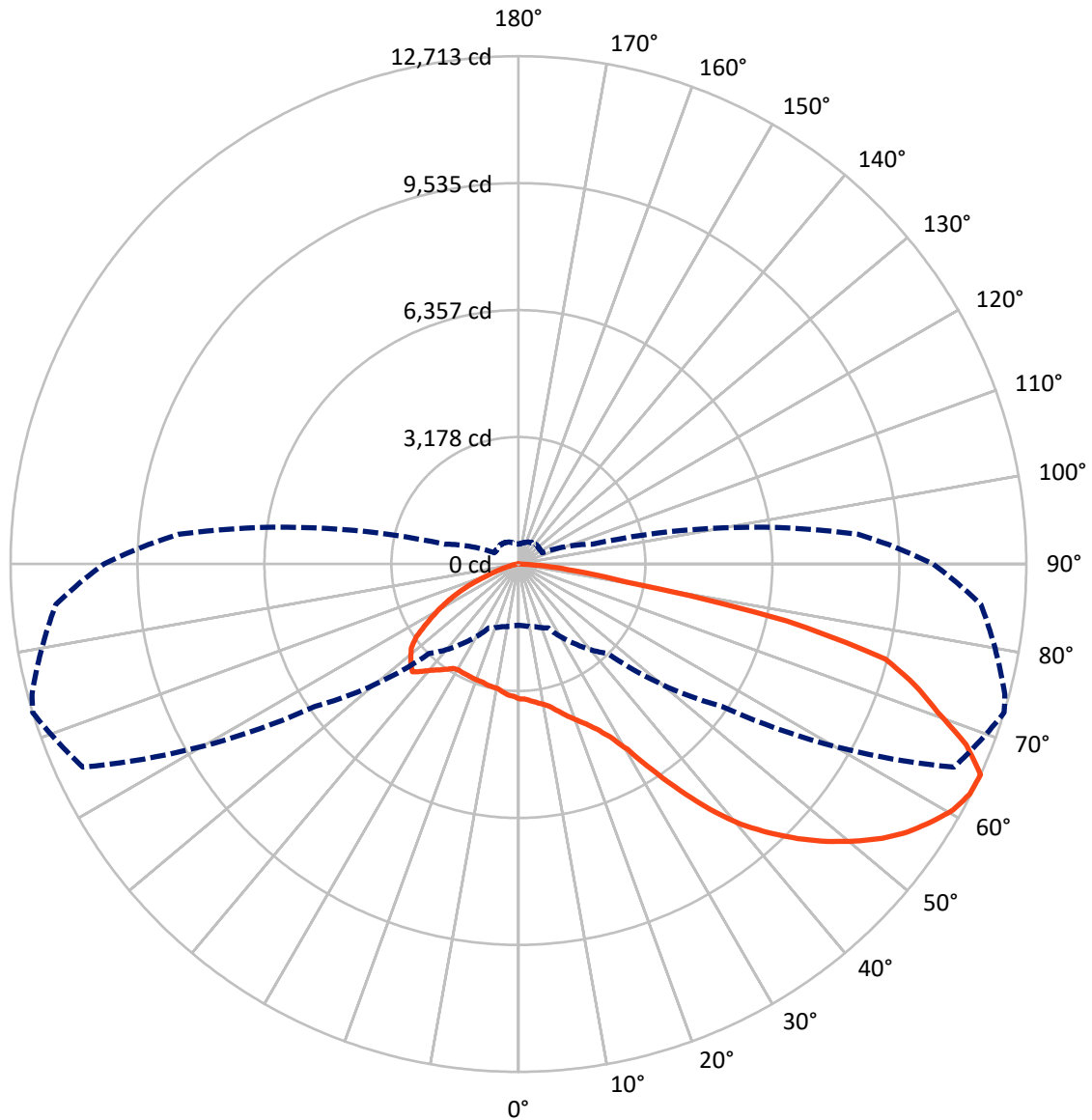


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4736.2	0.0	4736.2
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	13739.8	0.0	13739.8
	% Fixture	74.4	0.0	74.4
Total	Lumens	18476.0	0.0	18476.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.3	1.7
10°-20°	974.8	5.3
20°-30°	1635.1	8.8
30°-40°	2397.8	13.0
40°-50°	3240.7	17.5
50°-60°	3754.1	20.3
60°-70°	3667.1	19.8
70°-80°	2202.1	11.9
80°-90°	282.0	1.5
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°	18476.0	100.0
0°-180°	18476.0	100.0



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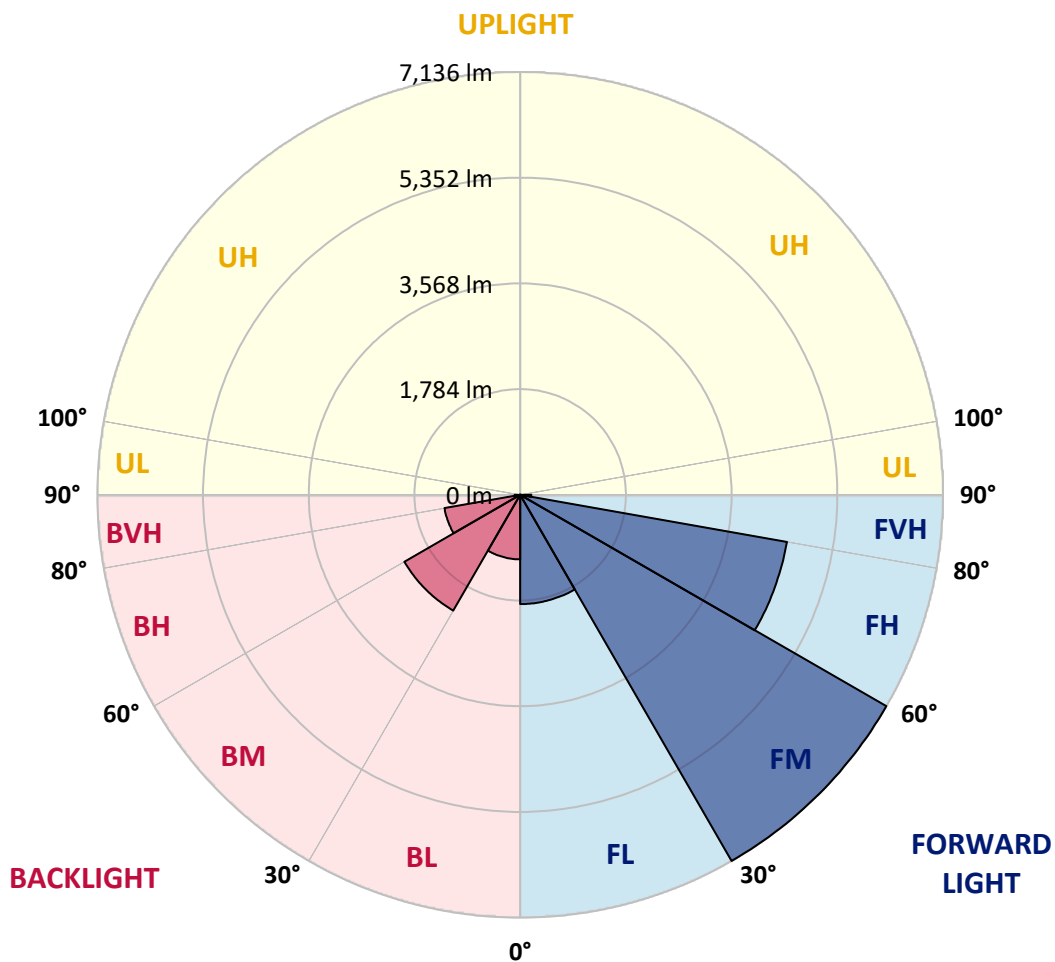
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1843.6	10.0			
FM	(30°-60°)	7136.0	38.6			
FH	(60°-80°)	4572.4	24.7			G2/5000
FVH	(80°-90°)	187.8	1.0			G2/225
BL	(0°-30°)	1088.6	5.9	B3/2500		
BM	(30°-60°)	2256.6	12.2	B2/2500		
BH	(60°-80°)	1296.8	7.0	B3/2500		G3/2500
BVH	(80°-90°)	94.2	0.5			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°	73°	75°	85°
0°	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3
2.5°	3586.3	3599.7	3584.6	3541.0	3519.2	3504.1	3458.8	3418.6	3386.7	3383.4	3353.2
5°	3723.9	3744.0	3718.8	3663.5	3641.7	3609.8	3559.5	3504.1	3447.1	3435.4	3375.0
7.5°	3898.3	3901.7	3888.3	3832.9	3787.6	3720.5	3633.3	3574.6	3509.2	3490.7	3395.1
10°	4045.9	4044.3	4027.5	3973.8	3928.5	3869.8	3747.4	3651.7	3574.6	3551.1	3418.6
12.5°	4186.8	4183.5	4166.7	4111.4	4054.3	4005.7	3913.4	3784.3	3680.3	3650.1	3485.7
15°	4361.3	4352.9	4326.1	4252.3	4207.0	4149.9	4082.8	3953.7	3834.6	3792.6	3583.0
17.5°	4495.5	4493.8	4473.7	4411.6	4357.9	4295.9	4233.8	4133.2	4004.0	3957.0	3678.6
20°	4572.6	4565.9	4560.9	4512.3	4498.8	4465.3	4376.4	4299.2	4170.1	4121.4	3785.9
22.5°	4654.8	4656.5	4658.2	4633.0	4671.6	4643.1	4577.7	4483.7	4352.9	4297.6	3936.9
25°	4673.3	4676.6	4710.2	4765.6	4812.5	4864.5	4817.6	4725.3	4584.4	4525.7	4143.2
27.5°	4621.3	4634.7	4735.4	4829.3	4995.4	5062.5	5054.1	5049.0	4904.8	4846.1	4426.7
30°	4668.3	4668.3	4737.0	4898.1	5107.7	5283.9	5322.5	5429.8	5386.2	5344.3	4903.1
32.5°	4527.4	4552.5	4675.0	4899.7	5231.9	5488.5	5663.0	5961.6	6134.3	6099.1	5577.4
35°	4262.3	4295.9	4475.4	4819.2	5293.9	5730.1	6042.1	6617.4	6951.2	6993.2	6389.3
37.5°	4057.7	4086.2	4311.0	4693.4	5317.4	5956.5	6479.9	7355.5	7786.6	7764.8	7077.0
40°	3807.7	3858.1	4084.5	4544.1	5262.1	6149.4	6954.6	8033.2	8563.2	8462.6	7731.2
42.5°	3583.0	3626.6	3816.1	4305.9	5184.9	6258.5	7384.0	8731.0	9195.6	9115.1	8350.2
45°	3344.8	3383.4	3559.5	4020.8	5005.4	6312.1	7786.6	9398.6	9802.8	9712.3	8923.9
47.5°	3071.4	3123.4	3333.0	3752.4	4742.1	6278.6	8080.1	9979.0	10379.9	10312.8	9398.6
50°	2381.9	2435.6	2984.1	3500.8	4376.4	6139.4	8343.5	10559.4	10901.6	10837.8	9817.9
52.5°	2162.2	2185.7	2356.8	3212.3	3995.6	5864.3	8507.9	11037.4	11409.8	11346.1	10213.8
55°	2028.0	2044.8	2140.4	2623.5	3671.9	5421.4	8528.0	11533.9	11837.6	11753.7	10634.8
57.5°	1890.5	1908.9	2014.6	2262.8	3346.5	4728.6	8315.0	11955.0	12184.8	12094.2	11037.4
60°	1774.7	1784.8	1888.8	2059.9	2979.1	4040.9	7766.5	12241.8	12505.2	12387.7	11431.6
62.5°	1669.0	1682.5	1757.9	1913.9	2670.5	3525.9	7001.6	12243.5	12681.3	12609.2	11631.2
65°	1531.5	1551.6	1625.4	1766.3	2420.5	3173.7	6209.8	12030.5	12713.2	12605.8	11621.2
67.5°	1372.1	1397.3	1464.4	1576.8	2088.4	2797.9	5106.1	11750.3	12090.8	12072.4	11141.4
70°	1212.8	1212.8	1288.3	1378.8	1732.8	2395.4	4034.2	10752.3	11141.4	11169.9	10280.9
72.5°	1023.2	1026.6	1085.3	1164.1	1395.6	1965.9	2938.8	9192.3	10386.6	10041.0	9272.8
75°	858.8	855.5	915.9	981.3	1135.6	1548.3	1917.3	6753.3	9492.5	9569.7	8160.6
77.5°	456.3	439.5	516.6	568.6	665.9	860.5	1063.5	3386.7	6874.1	7025.0	6533.6
80°	129.2	130.8	342.2	382.5	437.8	426.1	493.2	1291.6	2719.1	3064.6	3809.4
82.5°	77.2	88.9	194.6	228.1	171.1	110.7	187.9	717.9	1407.4	1576.8	1890.5
85°	40.3	43.6	68.8	85.5	65.4	55.4	57.0	301.9	684.4	696.1	754.8
87.5°	18.5	18.5	25.2	26.8	16.8	10.1	6.7	5.0	5.0	3.4	3.4
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°	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3
2.5°	3329.7	3346.5	3317.9	3296.1	3279.4	3269.3	3257.5	3229.0	3237.4	3249.2	3247.5
5°	3346.5	3354.8	3304.5	3235.7	3172.0	3126.7	3096.5	3051.2	3051.2	3069.7	3069.7
7.5°	3361.5	3349.8	3247.5	3131.7	3059.6	3022.7	2974.1	2925.4	2917.0	2930.5	2932.1
10°	3369.9	3319.6	3177.0	3069.7	2975.7	2900.3	2838.2	2782.8	2781.2	2799.6	2803.0
12.5°	3406.8	3309.5	3172.0	3024.4	2883.5	2803.0	2729.2	2667.1	2645.3	2647.0	2650.3
15°	3463.9	3349.8	3165.3	2962.3	2809.7	2702.3	2595.0	2516.1	2496.0	2522.8	2532.9
17.5°	3532.6	3415.2	3133.4	2905.3	2719.1	2589.9	2482.6	2412.1	2348.4	2319.9	2314.8
20°	3623.2	3470.6	3150.2	2821.4	2631.9	2459.1	2324.9	2239.4	2185.7	2182.3	2179.0
22.5°	3742.3	3532.6	3153.5	2766.1	2494.3	2314.8	2148.8	2100.1	2004.5	1969.3	1984.4
25°	3900.0	3626.6	3145.2	2707.4	2388.6	2147.1	1947.5	1858.6	1823.4	1783.1	1786.5
27.5°	4103.0	3775.9	3167.0	2630.2	2215.9	1942.5	1719.4	1623.7	1570.1	1536.5	1541.5
30°	4515.6	4002.3	3165.3	2556.4	2056.5	1731.1	1479.5	1415.7	1362.1	1331.9	1347.0
32.5°	5102.7	4493.8	3235.7	2457.4	1875.4	1447.6	1278.2	1206.1	1160.8	1127.2	1135.6
35°	5829.0	5028.9	3416.9	2323.2	1669.0	1231.2	1115.5	1026.6	971.2	957.8	952.8
37.5°	6503.4	5501.9	3588.0	2234.3	1432.5	1112.1	966.2	877.3	828.6	845.4	845.4
40°	7105.6	6129.3	3780.9	2091.7	1217.8	976.3	800.1	759.9	734.7	763.2	773.3
42.5°	7560.1	6731.5	4042.6	1903.9	1043.4	815.2	684.4	712.9	723.0	743.1	738.1
45°	8123.7	7075.4	4300.9	1729.4	890.7	679.4	660.9	719.6	743.1	761.5	753.2
47.5°	8642.1	7342.1	4248.9	1407.4	749.8	657.5	672.6	719.6	759.9	790.1	785.0
50°	9088.3	7675.9	4149.9	1093.7	719.6	677.7	684.4	701.2	761.5	781.7	781.7
52.5°	9366.7	8006.3	4027.5	884.0	741.4	702.8	691.1	689.4	729.7	744.8	731.4
55°	9702.2	8348.5	3710.5	820.3	749.8	719.6	709.5	694.5	706.2	694.5	701.2
57.5°	10074.6	8685.7	3224.0	801.8	744.8	714.6	768.3	687.7	681.0	639.1	629.0
60°	10401.7	8818.2	2797.9	759.9	717.9	701.2	714.6	679.4	645.8	590.5	568.6
62.5°	10524.1	8806.5	2365.2	716.3	677.7	681.0	679.4	654.2	624.0	568.6	555.2
65°	10376.5	8538.1	1917.3	664.3	645.8	659.2	642.5	605.5	555.2	509.9	498.2
67.5°	9876.6	7853.7	1424.1	595.5	593.8	619.0	607.2	556.9	501.5	466.3	466.3
70°	8920.5	7011.6	922.6	494.8	531.7	575.4	575.4	521.7	449.5	419.4	427.7
72.5°	7873.8	6033.7	597.2	367.4	419.4	521.7	518.3	481.4	414.3	375.7	377.4
75°	6820.4	4787.4	385.8	253.3	271.7	444.5	459.6	392.5	322.1	275.1	266.7
77.5°	5184.9	3601.4	244.9	147.6	172.8	271.7	348.9	327.1	328.8	400.9	397.5
80°	3188.8	2170.6	177.8	72.1	85.5	177.8	281.8	312.0	437.8	288.5	265.0
82.5°	1596.9	1014.8	93.9	43.6	48.6	78.8	167.7	374.1	318.7	191.2	181.2
85°	597.2	273.4	28.5	21.8	26.8	40.3	68.8	342.2	203.0	152.6	149.3
87.5°	3.4	5.0	5.0	6.7	10.1	11.7	25.2	162.7	102.3	73.8	70.5
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)