

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: P233843

Luminaire Tested: **VERD-G-C02-D-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233843
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-C02-D-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1175mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17122 lumens
Efficiency: N/A
Efficacy: 124.1 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

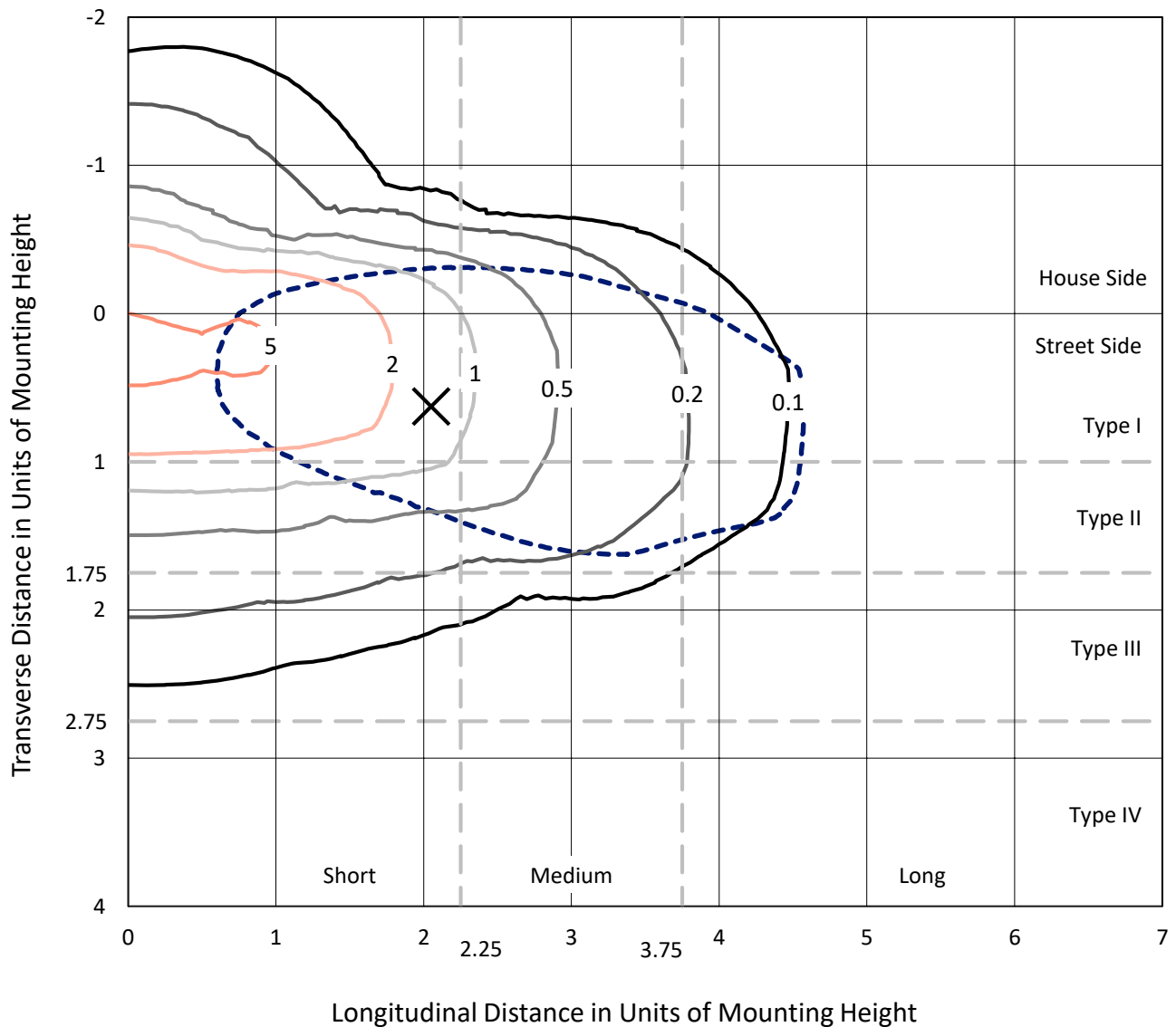
Input Watts (W): 138
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

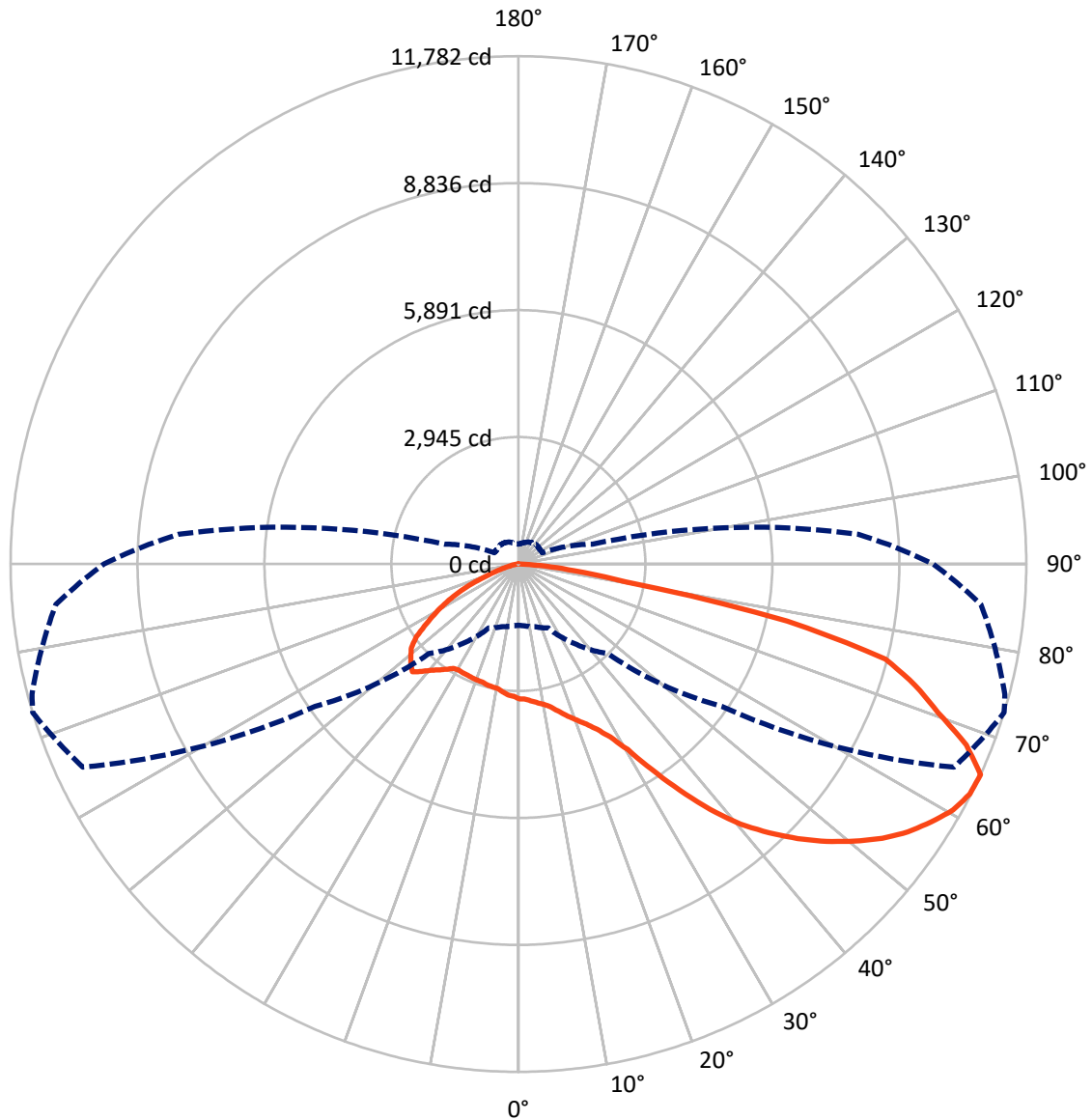


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - Non-Cutoff

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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	4389.1	0.0	4389.1
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	12732.9	0.0	12732.9
	% Fixture	74.4	0.0	74.4
Total	Lumens	17122.0	0.0	17122.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	1.7
10°-20°	903.3	5.3
20°-30°	1515.2	8.8
30°-40°	2222.1	13.0
40°-50°	3003.2	17.5
50°-60°	3479.0	20.3
60°-70°	3398.3	19.8
70°-80°	2040.7	11.9
80°-90°	261.4	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°	17122.0	100.0
0°-180°	17122.0	100.0



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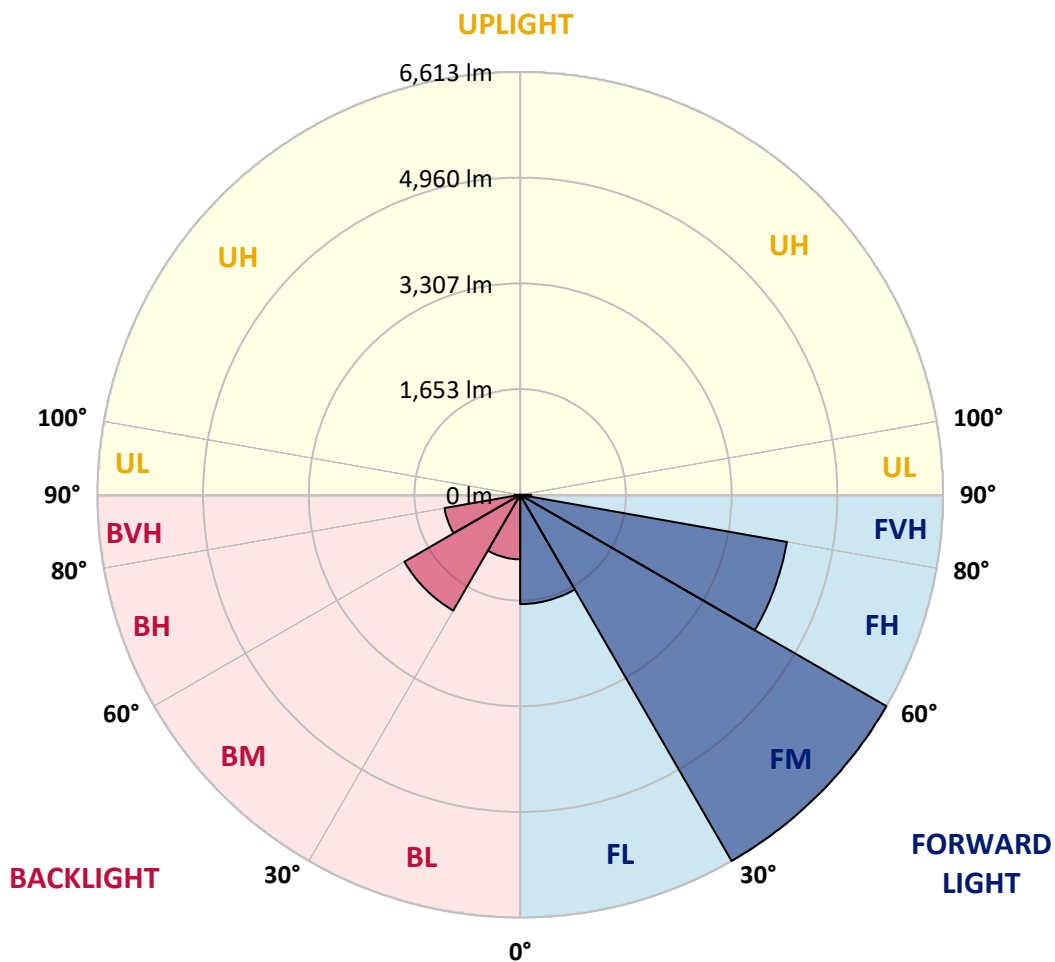
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1708.5	10.0			
FM	(30°-60°)	6613.1	38.6			
FH	(60°-80°)	4237.3	24.7			G2/5000
FVH	(80°-90°)	174.0	1.0			G2/225
BL	(0°-30°)	1008.8	5.9	B3/2500		
BM	(30°-60°)	2091.2	12.2	B2/2500		
BH	(60°-80°)	1201.7	7.0	B3/2500		G3/2500
BVH	(80°-90°)	87.3	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°	3130.7	3130.7	3130.7	3130.7	3130.7	3130.7	3130.7	3130.7	3130.7	3130.7	3130.7
2.5°	3323.5	3335.9	3321.9	3281.5	3261.3	3247.3	3205.4	3168.1	3138.5	3135.4	3107.4
5°	3451.0	3469.6	3446.3	3395.0	3374.8	3345.3	3298.6	3247.3	3194.5	3183.6	3127.6
7.5°	3612.6	3615.7	3603.3	3552.0	3510.0	3447.9	3367.0	3312.6	3252.0	3234.9	3146.3
10°	3749.4	3747.9	3732.3	3682.6	3640.6	3586.2	3472.7	3384.1	3312.6	3290.9	3168.1
12.5°	3880.0	3876.9	3861.4	3810.1	3757.2	3712.1	3626.6	3506.9	3410.6	3382.6	3230.2
15°	4041.7	4033.9	4009.0	3940.6	3898.7	3845.8	3783.6	3663.9	3553.6	3514.7	3320.4
17.5°	4166.0	4164.5	4145.8	4088.3	4038.6	3981.1	3923.5	3830.3	3710.6	3667.0	3409.0
20°	4237.5	4231.3	4226.7	4181.6	4169.1	4138.1	4055.7	3984.2	3864.5	3819.4	3508.5
22.5°	4313.7	4315.3	4316.8	4293.5	4329.3	4302.8	4242.2	4155.2	4033.9	3982.6	3648.4
25°	4330.8	4333.9	4365.0	4416.3	4459.8	4508.0	4464.5	4379.0	4248.4	4194.0	3839.6
27.5°	4282.6	4295.1	4388.3	4475.4	4629.3	4691.5	4683.7	4679.0	4545.3	4490.9	4102.3
30°	4326.2	4326.2	4389.9	4539.1	4733.4	4896.6	4932.4	5031.9	4991.5	4952.6	4543.8
32.5°	4195.6	4218.9	4332.4	4540.7	4848.5	5086.3	5248.0	5524.7	5684.8	5652.1	5168.7
35°	3950.0	3981.1	4147.4	4466.1	4906.0	5310.1	5599.3	6132.5	6441.8	6480.7	5921.1
37.5°	3760.3	3786.7	3995.0	4349.5	4927.7	5520.0	6005.0	6816.4	7215.9	7195.7	6558.4
40°	3528.7	3575.3	3785.2	4211.1	4876.4	5698.8	6444.9	7444.5	7935.7	7842.4	7164.7
42.5°	3320.4	3360.8	3536.5	3990.4	4804.9	5799.8	6842.9	8091.1	8521.7	8447.1	7738.3
45°	3099.7	3135.4	3298.6	3726.1	4638.6	5849.6	7215.9	8709.8	9084.4	9000.5	8269.9
47.5°	2846.3	2894.5	3088.8	3477.4	4394.5	5818.5	7488.0	9247.7	9619.2	9557.0	8709.8
50°	2207.4	2257.1	2765.4	3244.2	4055.7	5689.4	7732.0	9785.5	10102.6	10043.6	9098.4
52.5°	2003.7	2025.5	2184.1	2976.9	3702.8	5434.5	7884.4	10228.6	10573.7	10514.6	9465.3
55°	1879.4	1894.9	1983.5	2431.2	3402.8	5024.1	7903.0	10688.7	10970.0	10892.3	9855.5
57.5°	1751.9	1769.0	1866.9	2097.0	3101.2	4382.1	7705.6	11078.9	11291.8	11207.9	10228.6
60°	1644.7	1654.0	1750.4	1908.9	2760.8	3744.8	7197.3	11344.7	11588.7	11479.9	10593.9
62.5°	1546.7	1559.2	1629.1	1773.7	2474.8	3267.5	6488.4	11346.2	11752.0	11685.1	10778.8
65°	1419.3	1437.9	1506.3	1636.9	2243.1	2941.1	5754.7	11148.8	11781.5	11682.0	10769.5
67.5°	1271.6	1294.9	1357.1	1461.2	1935.3	2592.9	4731.9	10889.2	11204.8	11187.7	10324.9
70°	1123.9	1123.9	1193.8	1277.8	1605.8	2219.8	3738.6	9964.3	10324.9	10351.4	9527.5
72.5°	948.2	951.3	1005.8	1078.8	1293.3	1821.9	2723.5	8518.6	9625.4	9305.2	8593.2
75°	795.9	792.8	848.8	909.4	1052.4	1434.8	1776.8	6258.4	8796.9	8868.4	7562.6
77.5°	422.8	407.3	478.8	527.0	617.1	797.5	985.5	3138.5	6370.3	6510.2	6054.7
80°	119.7	121.3	317.1	354.4	405.7	394.8	457.0	1197.0	2519.8	2840.1	3530.3
82.5°	71.5	82.4	180.3	211.4	158.6	102.6	174.1	665.3	1304.2	1461.2	1751.9
85°	37.3	40.4	63.7	79.3	60.6	51.3	52.9	279.8	634.2	645.1	699.5
87.5°	17.1	17.1	23.3	24.9	15.5	9.3	6.2	4.7	4.7	3.1	3.1
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°	3130.7	3130.7	3130.7	3130.7	3130.7	3130.7	3130.7	3130.7	3130.7	3130.7	3130.7
2.5°	3085.7	3101.2	3074.8	3054.6	3039.0	3029.7	3018.8	2992.4	3000.2	3011.1	3009.5
5°	3101.2	3109.0	3062.3	2998.6	2939.5	2897.6	2869.6	2827.6	2827.6	2844.7	2844.7
7.5°	3115.2	3104.3	3009.5	2902.2	2835.4	2801.2	2756.1	2711.0	2703.3	2715.7	2717.3
10°	3123.0	3076.3	2944.2	2844.7	2757.7	2687.7	2630.2	2578.9	2577.3	2594.4	2597.6
12.5°	3157.2	3067.0	2939.5	2802.7	2672.2	2597.6	2529.2	2471.6	2451.4	2453.0	2456.1
15°	3210.0	3104.3	2933.3	2745.2	2603.8	2504.3	2404.8	2331.7	2313.1	2338.0	2347.3
17.5°	3273.8	3164.9	2903.8	2692.4	2519.8	2400.1	2300.6	2235.4	2176.3	2149.9	2145.2
20°	3357.7	3216.2	2919.3	2614.7	2439.0	2278.9	2154.5	2075.2	2025.5	2022.4	2019.3
22.5°	3468.1	3273.8	2922.4	2563.4	2311.5	2145.2	1991.3	1946.2	1857.6	1825.0	1839.0
25°	3614.2	3360.8	2914.7	2508.9	2213.6	1989.7	1804.8	1722.4	1689.7	1652.4	1655.5
27.5°	3802.3	3499.2	2934.9	2437.4	2053.5	1800.1	1593.4	1504.7	1455.0	1423.9	1428.6
30°	4184.7	3709.0	2933.3	2369.0	1905.8	1604.2	1371.1	1312.0	1262.2	1234.3	1248.3
32.5°	4728.8	4164.5	2998.6	2277.3	1737.9	1341.5	1184.5	1117.7	1075.7	1044.6	1052.4
35°	5401.9	4660.4	3166.5	2153.0	1546.7	1141.0	1033.7	951.3	900.1	887.6	883.0
37.5°	6026.8	5098.7	3325.1	2070.6	1327.5	1030.6	895.4	813.0	767.9	783.5	783.5
40°	6584.8	5680.1	3503.8	1938.5	1128.6	904.7	741.5	704.2	680.9	707.3	716.6
42.5°	7006.1	6238.2	3746.3	1764.3	966.9	755.5	634.2	660.7	670.0	688.6	684.0
45°	7528.4	6556.8	3985.7	1602.7	825.4	629.6	612.5	666.9	688.6	705.7	698.0
47.5°	8008.7	6804.0	3937.5	1304.2	694.9	609.4	623.4	666.9	704.2	732.2	727.5
50°	8422.2	7113.4	3845.8	1013.5	666.9	628.0	634.2	649.8	705.7	724.4	724.4
52.5°	8680.3	7419.6	3732.3	819.2	687.1	651.3	640.5	638.9	676.2	690.2	677.8
55°	8991.2	7736.7	3438.5	760.1	694.9	666.9	657.5	643.6	654.4	643.6	649.8
57.5°	9336.3	8049.2	2987.7	743.0	690.2	662.2	712.0	637.3	631.1	592.3	582.9
60°	9639.4	8172.0	2592.9	704.2	665.3	649.8	662.2	629.6	598.5	547.2	527.0
62.5°	9752.9	8161.1	2191.8	663.8	628.0	631.1	629.6	606.3	578.3	527.0	514.5
65°	9616.1	7912.4	1776.8	615.6	598.5	610.9	595.4	561.2	514.5	472.6	461.7
67.5°	9152.8	7278.1	1319.8	551.8	550.3	573.6	562.7	516.1	464.8	432.1	432.1
70°	8266.8	6497.8	855.0	458.6	492.8	533.2	533.2	483.4	416.6	388.6	396.4
72.5°	7296.8	5591.5	553.4	340.4	388.6	483.4	480.3	446.1	384.0	348.2	349.8
75°	6320.6	4436.5	357.5	234.7	251.8	411.9	425.9	363.8	298.5	254.9	247.2
77.5°	4804.9	3337.5	227.0	136.8	160.1	251.8	323.3	303.1	304.7	371.5	368.4
80°	2955.1	2011.5	164.8	66.8	79.3	164.8	261.2	289.1	405.7	267.4	245.6
82.5°	1479.9	940.5	87.1	40.4	45.1	73.1	155.4	346.7	295.4	177.2	167.9
85°	553.4	253.4	26.4	20.2	24.9	37.3	63.7	317.1	188.1	141.5	138.3
87.5°	3.1	4.7	4.7	6.2	9.3	10.9	23.3	150.8	94.8	68.4	65.3
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)