

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: P233836

Luminaire Tested: **VERD-G-C02H-D-U-T2-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233836
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-T2-8027
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1370mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16730 lumens
Efficiency: N/A
Efficacy: 107.9 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

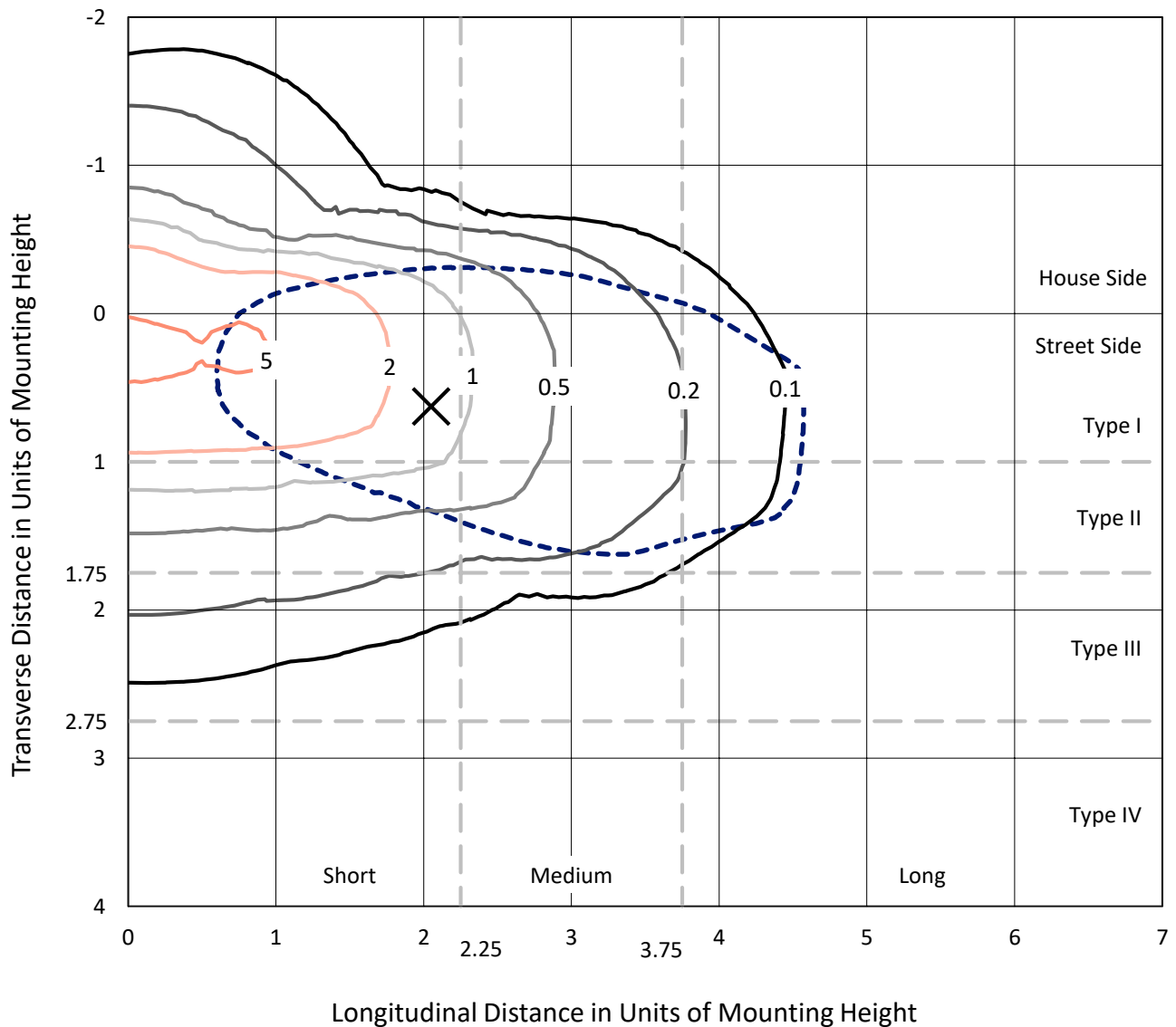


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

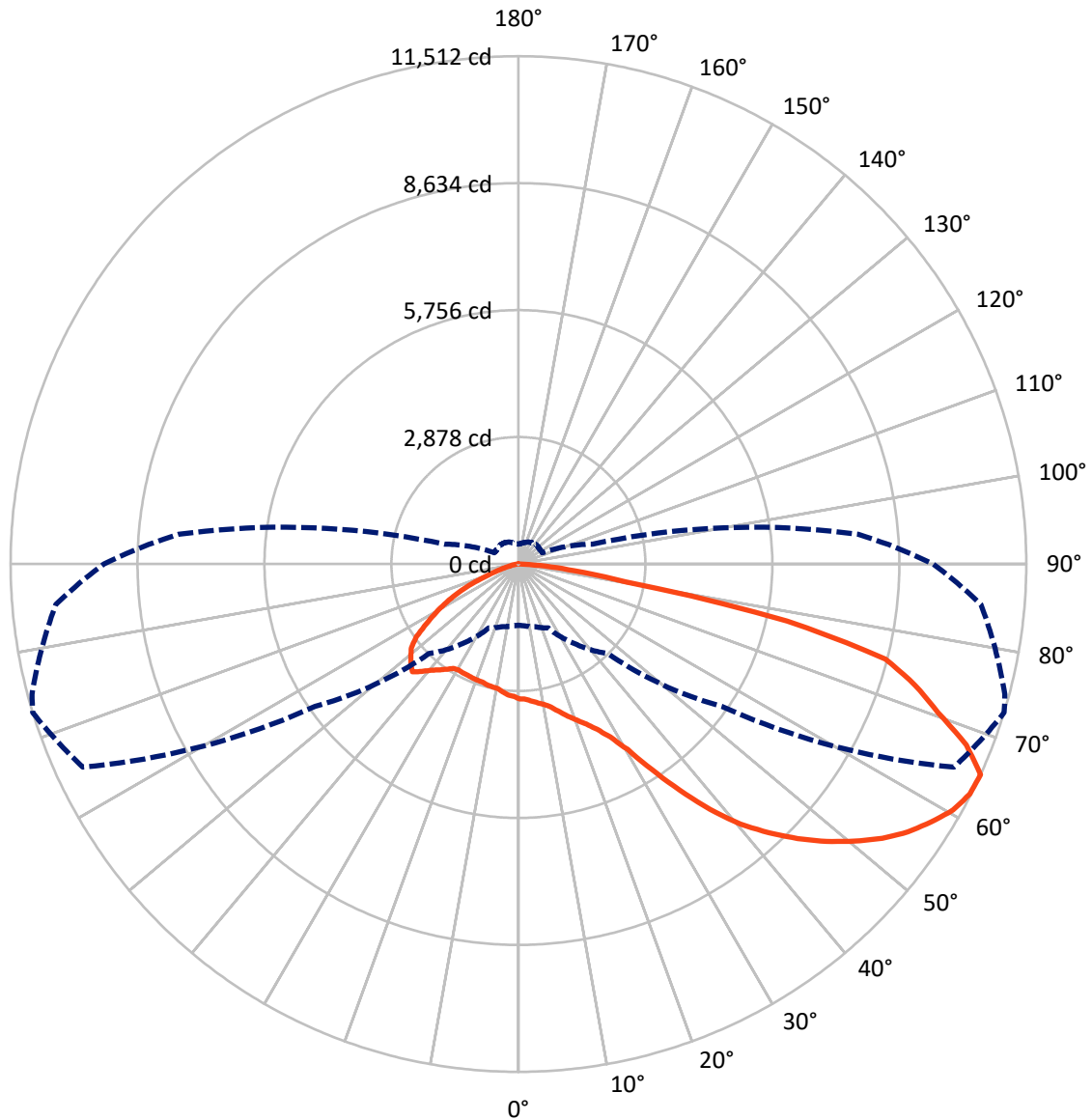


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Non-Cutoff

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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	4288.6	0.0	4288.6
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	12441.4	0.0	12441.4
	% Fixture	74.4	0.0	74.4
Total	Lumens	16730.0	0.0	16730.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.9	1.7
10°-20°	882.7	5.3
20°-30°	1480.6	8.8
30°-40°	2171.2	13.0
40°-50°	2934.4	17.5
50°-60°	3399.3	20.3
60°-70°	3320.5	19.8
70°-80°	1994.0	11.9
80°-90°	255.4	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°	16730.0	100.0
0°-180°	16730.0	100.0



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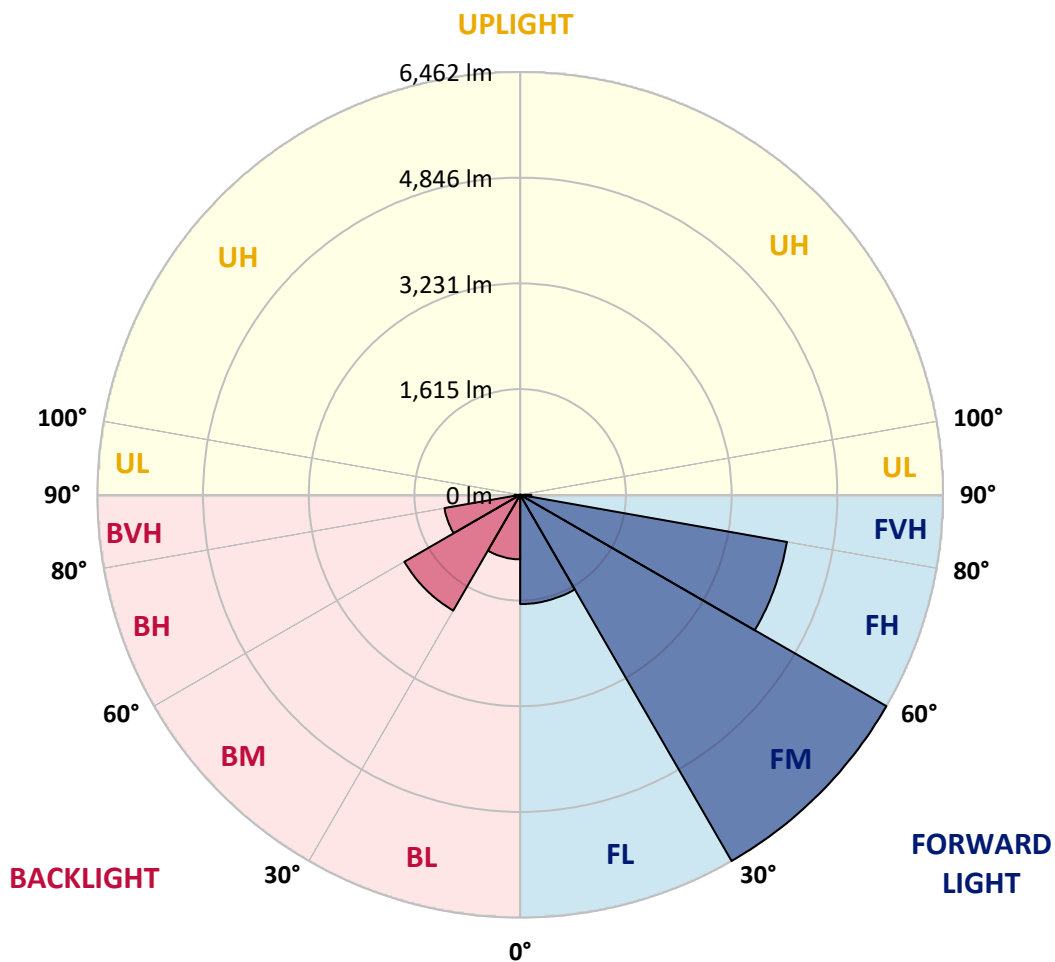
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1669.4	10.0			
FM (30°-60°)	6461.7	38.6			
FH (60°-80°)	4140.3	24.7			G2/5000
FVH (80°-90°)	170.0	1.0			G2/225
BL (0°-30°)	985.7	5.9	B2/1000		
BM (30°-60°)	2043.3	12.2	B2/2500		
BH (60°-80°)	1174.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	85.3	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°	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1
2.5°	3247.4	3259.6	3245.9	3206.4	3186.7	3173.0	3132.0	3095.5	3066.7	3063.6	3036.3
5°	3372.0	3390.2	3367.4	3317.3	3297.5	3268.7	3223.1	3173.0	3121.3	3110.7	3056.0
7.5°	3529.9	3533.0	3520.8	3470.7	3429.7	3368.9	3289.9	3236.8	3177.5	3160.8	3074.3
10°	3663.6	3662.1	3646.9	3598.3	3557.3	3504.1	3393.2	3306.7	3236.8	3215.5	3095.5
12.5°	3791.2	3788.1	3773.0	3722.8	3671.2	3627.1	3543.6	3426.6	3332.5	3305.1	3156.3
15°	3949.1	3941.6	3917.2	3850.4	3809.4	3757.8	3697.0	3580.1	3472.2	3434.2	3244.4
17.5°	4070.7	4069.1	4050.9	3994.7	3946.1	3889.9	3833.7	3742.6	3625.6	3583.1	3331.0
20°	4140.5	4134.5	4129.9	4085.8	4073.7	4043.3	3962.8	3892.9	3776.0	3731.9	3428.2
22.5°	4215.0	4216.5	4218.0	4195.2	4230.1	4204.3	4145.1	4060.0	3941.6	3891.4	3564.9
25°	4231.7	4234.7	4265.1	4315.2	4357.7	4404.8	4362.3	4278.7	4151.2	4098.0	3751.7
27.5°	4184.6	4196.7	4287.9	4372.9	4523.3	4584.0	4576.5	4571.9	4441.3	4388.1	4008.4
30°	4227.1	4227.1	4289.4	4435.2	4625.1	4784.5	4819.5	4916.7	4877.2	4839.2	4439.8
32.5°	4099.5	4122.3	4233.2	4436.7	4737.5	4969.8	5127.8	5398.2	5554.6	5522.7	5050.3
35°	3859.5	3889.9	4052.4	4363.8	4793.7	5188.6	5471.1	5992.1	6294.3	6332.3	5785.5
37.5°	3674.2	3700.0	3903.6	4249.9	4814.9	5393.6	5867.5	6660.4	7050.7	7031.0	6408.2
40°	3447.9	3493.5	3698.5	4114.7	4764.8	5568.3	6297.4	7274.0	7754.0	7662.9	7000.6
42.5°	3244.4	3283.9	3455.5	3899.0	4694.9	5667.0	6686.2	7905.9	8326.6	8253.7	7561.1
45°	3028.7	3063.6	3223.1	3640.8	4532.4	5715.6	7050.7	8510.4	8876.5	8794.4	8080.6
47.5°	2781.1	2828.2	3018.1	3397.8	4293.9	5685.3	7316.6	9035.9	9399.0	9338.2	8510.4
50°	2156.8	2205.4	2702.1	3169.9	3962.8	5559.2	7555.0	9561.5	9871.3	9813.6	8890.1
52.5°	1957.9	1979.1	2134.1	2908.7	3618.0	5310.1	7703.9	9994.4	10331.6	10273.9	9248.6
55°	1836.4	1851.5	1938.1	2375.6	3324.9	4909.1	7722.1	10444.0	10718.9	10642.9	9629.8
57.5°	1711.8	1728.5	1824.2	2049.0	3030.2	4281.8	7529.2	10825.2	11033.3	10951.3	9994.4
60°	1607.0	1616.1	1710.3	1865.2	2697.6	3659.0	7032.5	11084.9	11323.4	11217.1	10351.3
62.5°	1511.3	1523.5	1591.8	1733.1	2418.1	3192.7	6339.9	11086.5	11482.9	11417.6	10532.1
65°	1386.8	1405.0	1471.8	1599.4	2191.8	2873.8	5623.0	10893.6	11511.8	11414.6	10523.0
67.5°	1242.5	1265.2	1326.0	1427.8	1891.0	2533.5	4623.5	10639.9	10948.2	10931.5	10088.5
70°	1098.2	1098.2	1166.5	1248.5	1569.0	2169.0	3653.0	9736.2	10088.5	10114.4	9309.4
72.5°	926.5	929.6	982.7	1054.1	1263.7	1780.2	2661.1	8323.6	9405.0	9092.1	8396.5
75°	777.7	774.6	829.3	888.6	1028.3	1401.9	1736.1	6115.1	8595.5	8665.3	7389.5
77.5°	413.1	398.0	467.8	514.9	603.0	779.2	963.0	3066.7	6224.5	6361.2	5916.1
80°	117.0	118.5	309.9	346.3	396.4	385.8	446.6	1169.6	2462.1	2775.0	3449.4
82.5°	69.9	80.5	176.2	206.6	154.9	100.2	170.1	650.1	1274.4	1427.8	1711.8
85°	36.5	39.5	62.3	77.5	59.2	50.1	51.6	273.4	619.7	630.3	683.5
87.5°	16.7	16.7	22.8	24.3	15.2	9.1	6.1	4.6	4.6	3.0	3.0
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°	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1	3059.1
2.5°	3015.0	3030.2	3004.4	2984.6	2969.5	2960.3	2949.7	2923.9	2931.5	2942.1	2940.6
5°	3030.2	3037.8	2992.2	2930.0	2872.2	2831.2	2803.9	2762.9	2762.9	2779.6	2779.6
7.5°	3043.9	3033.2	2940.6	2835.8	2770.5	2737.1	2693.0	2649.0	2641.4	2653.5	2655.0
10°	3051.5	3005.9	2876.8	2779.6	2694.5	2626.2	2570.0	2519.9	2518.3	2535.0	2538.1
12.5°	3084.9	2996.8	2872.2	2738.6	2611.0	2538.1	2471.3	2415.1	2395.3	2396.8	2399.9
15°	3136.5	3033.2	2866.2	2682.4	2544.2	2447.0	2349.7	2278.4	2260.1	2284.4	2293.5
17.5°	3198.8	3092.5	2837.3	2630.7	2462.1	2345.2	2248.0	2184.2	2126.5	2100.6	2096.1
20°	3280.8	3142.6	2852.5	2554.8	2383.2	2226.7	2105.2	2027.7	1979.1	1976.1	1973.1
22.5°	3388.7	3198.8	2855.5	2504.7	2258.6	2096.1	1945.7	1901.7	1815.1	1783.2	1796.9
25°	3531.4	3283.9	2847.9	2451.5	2162.9	1944.2	1763.4	1682.9	1651.0	1614.6	1617.6
27.5°	3715.2	3419.0	2867.7	2381.6	2006.5	1758.9	1556.9	1470.3	1421.7	1391.3	1395.9
30°	4088.9	3624.1	2866.2	2314.8	1862.2	1567.5	1339.7	1282.0	1233.3	1206.0	1219.7
32.5°	4620.5	4069.1	2930.0	2225.2	1698.1	1310.8	1157.4	1092.1	1051.1	1020.7	1028.3
35°	5278.2	4553.7	3094.0	2103.7	1511.3	1114.9	1010.1	929.6	879.4	867.3	862.7
37.5°	5888.8	4982.0	3248.9	2023.2	1297.1	1007.0	874.9	794.4	750.3	765.5	765.5
40°	6434.1	5550.1	3423.6	1894.1	1102.7	884.0	724.5	688.1	665.3	691.1	700.2
42.5°	6845.7	6095.4	3660.6	1724.0	944.8	738.2	619.7	645.5	654.6	672.9	668.3
45°	7356.0	6406.7	3894.5	1566.0	806.5	615.2	598.4	651.6	672.9	689.6	682.0
47.5°	7825.4	6648.2	3847.4	1274.4	678.9	595.4	609.1	651.6	688.1	715.4	710.8
50°	8229.4	6950.5	3757.8	990.3	651.6	613.6	619.7	634.9	689.6	707.8	707.8
52.5°	8481.6	7249.7	3646.9	800.5	671.4	636.4	625.8	624.3	660.7	674.4	662.2
55°	8785.3	7559.6	3359.8	742.7	678.9	651.6	642.5	628.8	639.5	628.8	634.9
57.5°	9122.5	7864.9	2919.3	726.0	674.4	647.1	695.7	622.7	616.7	578.7	569.6
60°	9418.7	7984.9	2533.5	688.1	650.1	634.9	647.1	615.2	584.8	534.7	514.9
62.5°	9529.6	7974.2	2141.7	648.6	613.6	616.7	615.2	592.4	565.0	514.9	502.8
65°	9395.9	7731.2	1736.1	601.5	584.8	596.9	581.7	548.3	502.8	461.7	451.1
67.5°	8943.3	7111.5	1289.5	539.2	537.7	560.5	549.8	504.3	454.2	422.3	422.3
70°	8077.5	6349.0	835.4	448.1	481.5	521.0	521.0	472.4	407.1	379.7	387.3
72.5°	7129.7	5463.5	540.7	332.6	379.7	472.4	469.3	435.9	375.2	340.2	341.8
75°	6175.9	4334.9	349.3	229.4	246.1	402.5	416.2	355.4	291.6	249.1	241.5
77.5°	4694.9	3261.1	221.8	133.7	156.4	246.1	315.9	296.2	297.7	363.0	360.0
80°	2887.4	1965.5	161.0	65.3	77.5	161.0	255.2	282.5	396.4	261.3	240.0
82.5°	1446.0	918.9	85.1	39.5	44.0	71.4	151.9	338.7	288.6	173.2	164.0
85°	540.7	247.6	25.8	19.7	24.3	36.5	62.3	309.9	183.8	138.2	135.2
87.5°	3.0	4.6	4.6	6.1	9.1	10.6	22.8	147.3	92.7	66.8	63.8
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)