

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: P509125

Luminaire Tested: **VERD-CA2-110-740-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509125  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-110-740-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1020mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15983 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

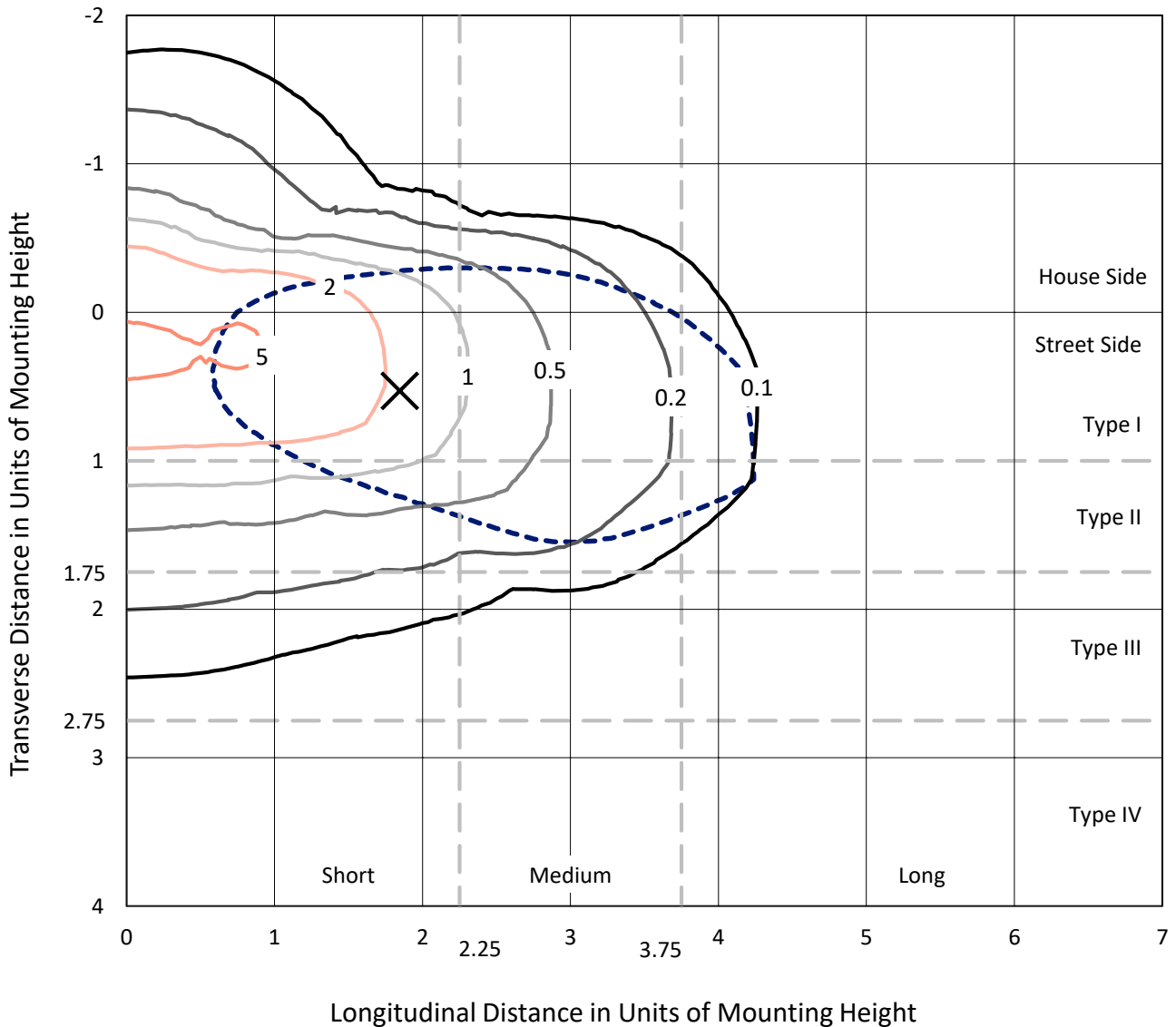
Input Watts (W): 113.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

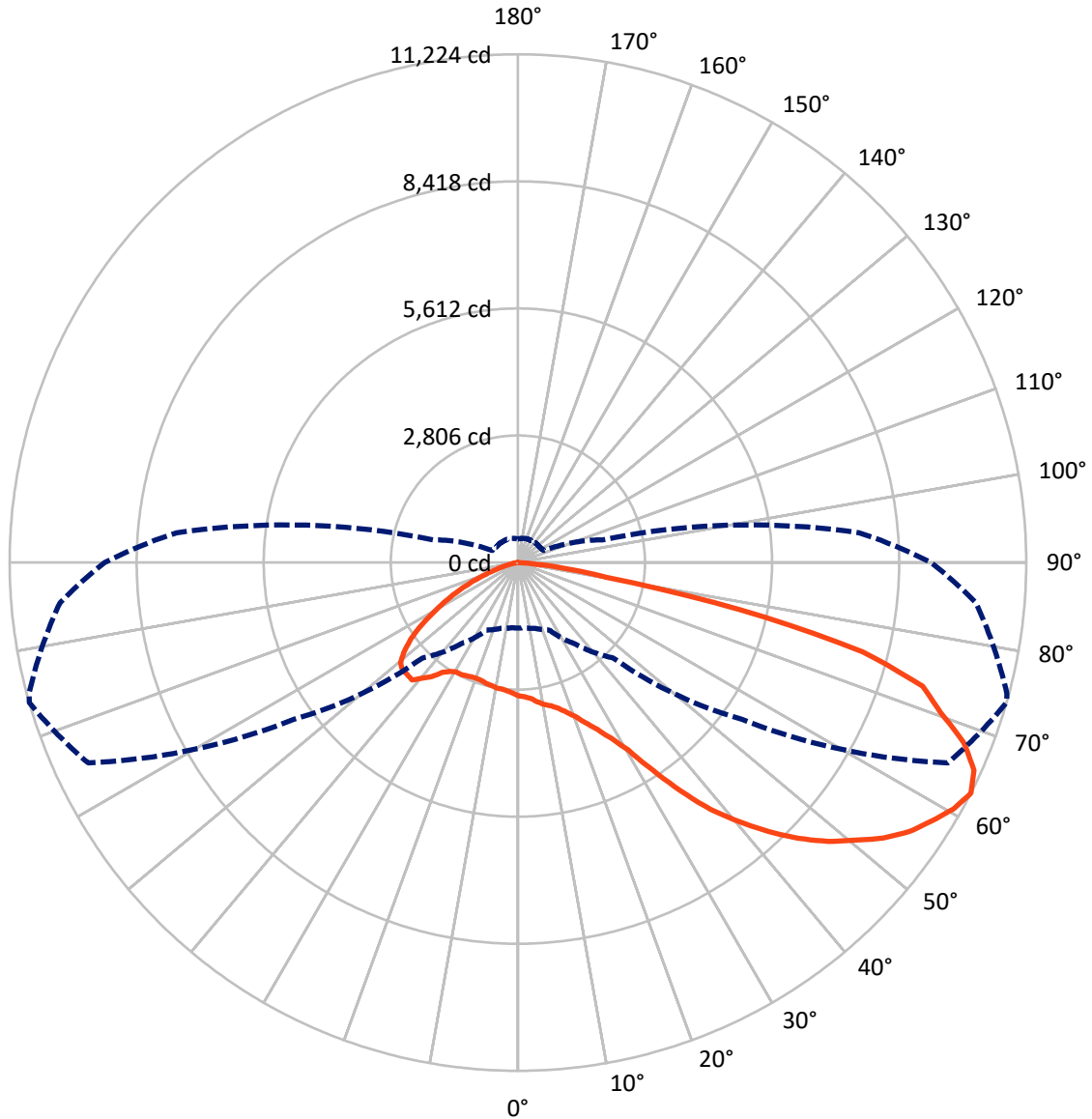
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4126.9	0.0	4126.9
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	11856.1	0.0	11856.1
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	15983.0	0.0	15983.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.2	1.8
10°-20°	863.4	5.4
20°-30°	1455.9	9.1
30°-40°	2127.2	13.3
40°-50°	2832.3	17.7
50°-60°	3259.5	20.4
60°-70°	3149.8	19.7
70°-80°	1813.2	11.3
80°-90°	198.4	1.2
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°	15983.0	100.0
0°-180°	15983.0	100.0

**Coefficient of Utilization**



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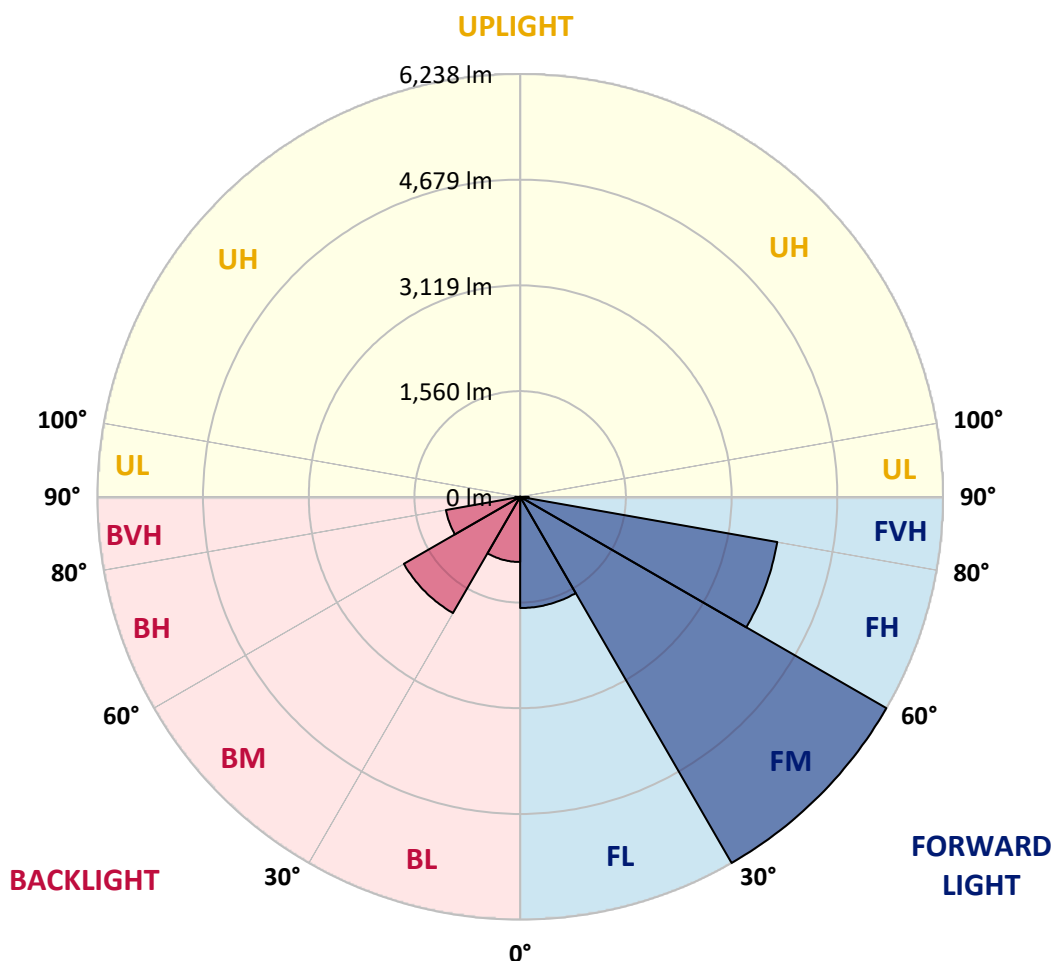
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1640.4	10.3			
FM (30°-60°)	6238.2	39.0			
FH (60°-80°)	3852.0	24.1			G2/5000
FVH (80°-90°)	125.5	0.8			G2/225
BL (0°-30°)	962.2	6.0	B2/1000		
BM (30°-60°)	1980.9	12.4	B2/2500		
BH (60°-80°)	1111.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	72.9	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°	74°	75°	85°
0°	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2
2.5°	3154.6	3131.9	3118.0	3102.3	3083.1	3076.2	3034.3	2997.7	2968.1	2969.8	2950.7
5°	3269.6	3245.2	3213.8	3208.6	3184.2	3179.0	3138.9	3081.4	3016.9	3008.2	2950.7
7.5°	3398.6	3384.6	3365.5	3341.1	3301.0	3274.8	3217.3	3172.0	3105.8	3097.1	2983.8
10°	3555.4	3545.0	3531.0	3531.0	3478.8	3423.0	3353.3	3240.0	3187.7	3179.0	3041.3
12.5°	3740.2	3708.8	3663.5	3637.4	3588.6	3553.7	3478.8	3358.5	3245.2	3241.7	3095.3
15°	3860.4	3834.3	3804.7	3794.2	3731.5	3674.0	3593.8	3497.9	3339.3	3327.1	3161.6
17.5°	3994.6	3970.2	3935.4	3916.2	3876.1	3809.9	3738.4	3613.0	3471.8	3459.6	3236.5
20°	4069.6	4043.4	4033.0	4036.5	4022.5	3989.4	3904.0	3790.7	3628.6	3613.0	3339.3
22.5°	4153.2	4135.8	4139.3	4165.4	4191.6	4179.4	4113.2	3987.7	3848.2	3823.8	3504.9
25°	4155.0	4141.0	4188.1	4289.2	4345.0	4372.8	4338.0	4235.2	4087.0	4064.4	3715.8
27.5°	4184.6	4163.7	4214.2	4320.6	4489.6	4547.1	4559.3	4521.0	4393.8	4365.9	3968.5
30°	4107.9	4094.0	4170.7	4355.4	4554.1	4745.8	4815.5	4874.8	4803.3	4805.1	4358.9
32.5°	3975.5	3951.1	4067.8	4294.4	4663.9	4925.3	5110.1	5348.8	5458.6	5448.2	5038.6
35°	3722.8	3736.7	3893.6	4240.4	4667.4	5108.3	5470.8	5897.8	6195.9	6188.9	5742.7
37.5°	3543.2	3536.3	3721.0	4088.8	4665.6	5270.4	5821.2	6532.3	6917.4	6907.0	6347.5
40°	3327.1	3328.9	3513.6	3900.5	4583.7	5371.5	6183.7	7133.5	7525.7	7510.0	6926.1
42.5°	3095.3	3102.3	3274.8	3670.5	4470.4	5448.2	6507.9	7741.8	8121.7	8135.7	7389.7
45°	2887.9	2891.4	3062.2	3424.7	4270.0	5456.9	6798.9	8316.9	8686.4	8653.3	7876.0
47.5°	2582.9	2586.4	2839.1	3191.2	4005.1	5385.4	7039.4	8864.2	9202.3	9132.6	8287.3
50°	2023.5	2030.4	2330.2	2948.9	3682.7	5221.6	7229.4	9378.3	9639.8	9610.1	8709.1
52.5°	1868.3	1863.1	1988.6	2659.6	3393.4	4925.3	7349.7	9840.2	10105.1	10101.6	9057.7
55°	1789.9	1784.7	1826.5	2155.9	3109.3	4486.1	7346.2	10199.2	10490.3	10418.8	9376.6
57.5°	1650.5	1640.0	1748.1	1910.2	2792.1	3938.9	7171.9	10521.7	10769.2	10748.2	9664.2
60°	1551.1	1542.4	1615.6	1765.5	2454.0	3382.9	6724.0	10689.0	11049.8	11058.5	9906.4
62.5°	1448.3	1443.1	1505.8	1645.3	2189.0	2976.8	6033.8	10469.4	11224.0	11177.0	10148.7
65°	1331.5	1328.1	1387.3	1500.6	1925.9	2668.3	5357.6	10077.2	11067.2	11121.2	10180.1
67.5°	1192.1	1190.4	1247.9	1326.3	1638.3	2358.1	4322.3	9615.4	10619.3	10560.0	9777.5
70°	1021.3	1014.3	1085.8	1159.0	1371.6	2006.0	3363.7	8794.5	9890.7	10105.1	8975.7
72.5°	859.2	855.7	923.7	977.7	1136.3	1638.3	2454.0	7605.9	9345.2	9036.7	8086.9
75°	672.7	655.3	726.8	777.3	895.8	1303.7	1673.1	5080.4	7865.5	7801.1	6793.7
77.5°	271.9	315.5	376.5	421.8	500.2	739.0	874.9	2410.4	5017.7	5239.0	4724.9
80°	104.6	111.5	268.4	303.3	336.4	425.3	336.4	1016.1	1979.9	2159.4	2736.3
82.5°	59.3	66.2	132.5	127.2	125.5	108.1	125.5	498.5	1033.5	1132.9	1321.1
85°	33.1	36.6	54.0	59.3	50.5	43.6	38.3	130.7	257.9	244.0	273.6
87.5°	5.2	7.0	8.7	8.7	5.2	5.2	5.2	7.0	7.0	7.0	8.7
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°	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2
2.5°	2931.5	2912.3	2893.2	2870.5	2842.6	2825.2	2818.2	2826.9	2851.3	2821.7	2797.3
5°	2921.0	2894.9	2851.3	2807.8	2772.9	2743.3	2703.2	2699.7	2706.7	2694.5	2663.1
7.5°	2943.7	2905.4	2816.5	2786.8	2713.6	2643.9	2621.3	2612.6	2591.6	2567.2	2537.6
10°	2989.0	2910.6	2820.0	2732.8	2664.8	2589.9	2502.8	2504.5	2495.8	2467.9	2440.0
12.5°	3011.7	2919.3	2786.8	2694.5	2589.9	2497.5	2412.1	2373.8	2389.5	2366.8	2337.2
15°	3053.5	2955.9	2774.6	2638.7	2495.8	2391.2	2326.7	2271.0	2236.1	2241.3	2223.9
17.5°	3131.9	2989.0	2743.3	2577.7	2422.6	2298.8	2175.1	2169.9	2117.6	2087.9	2061.8
20°	3213.8	3048.3	2739.8	2511.5	2304.1	2150.7	2051.3	1995.6	1964.2	1939.8	1920.6
22.5°	3320.2	3130.2	2752.0	2473.1	2197.8	2025.2	1898.0	1823.0	1772.5	1755.1	1741.1
25°	3470.0	3233.0	2785.1	2405.2	2086.2	1887.5	1715.0	1636.5	1579.0	1565.1	1554.6
27.5°	3675.7	3363.7	2818.2	2332.0	1955.5	1694.1	1511.1	1434.4	1369.9	1368.1	1349.0
30°	3999.9	3564.2	2830.4	2267.5	1816.1	1486.7	1303.7	1232.2	1183.4	1164.2	1178.2
32.5°	4604.6	4006.8	2907.1	2168.1	1640.0	1284.5	1129.4	1071.9	1017.8	996.9	1010.9
35°	5258.2	4536.7	3036.1	2100.1	1446.6	1092.8	986.5	918.5	852.3	841.8	836.6
37.5°	5737.5	5019.4	3280.1	1988.6	1263.6	976.0	836.6	780.8	742.5	721.5	740.7
40°	6281.3	5420.3	3464.8	1870.1	1077.1	852.3	697.1	679.7	662.3	648.3	669.3
42.5°	6711.8	5833.4	3684.4	1713.2	927.2	723.3	620.5	634.4	643.1	636.1	637.9
45°	7107.4	6140.1	3698.4	1474.5	791.3	627.4	597.8	625.7	646.6	643.1	641.4
47.5°	7494.3	6506.1	3731.5	1221.7	693.7	603.0	599.5	620.5	648.3	653.6	653.6
50°	7893.4	6785.0	3680.9	983.0	657.1	606.5	604.8	603.0	637.9	639.6	644.9
52.5°	8193.2	7011.5	3442.2	812.2	655.3	617.0	613.5	596.1	611.7	623.9	615.2
55°	8510.4	7293.9	3140.6	747.7	651.8	620.5	634.4	604.8	594.3	583.9	594.3
57.5°	8811.9	7490.8	2745.0	709.3	637.9	615.2	643.1	603.0	580.4	550.7	540.3
60°	9043.7	7536.1	2304.1	669.3	620.5	603.0	604.8	590.8	561.2	524.6	508.9
62.5°	9122.1	7562.3	1938.1	630.9	585.6	583.9	569.9	564.7	552.5	529.8	522.9
65°	9055.9	7266.0	1547.7	583.9	556.0	557.7	536.8	519.4	491.5	454.9	451.4
67.5°	8601.0	6744.9	1186.9	524.6	510.7	528.1	505.4	475.8	444.4	420.0	423.5
70°	7822.0	6127.9	833.1	442.7	458.4	489.7	481.0	442.7	407.8	386.9	390.4
72.5°	6955.8	5192.0	566.4	345.1	373.0	439.2	439.2	413.1	378.2	350.3	343.3
75°	5486.5	4078.3	366.0	228.3	245.7	359.0	388.7	348.6	310.2	292.8	285.8
77.5°	3724.5	2656.1	233.5	130.7	163.8	235.3	306.7	312.0	367.7	369.5	353.8
80°	2189.0	1519.8	142.9	76.7	81.9	135.9	245.7	308.5	390.4	275.4	252.7
82.5°	1089.3	648.3	64.5	47.1	48.8	68.0	132.5	353.8	301.5	172.5	165.6
85°	242.3	106.3	26.1	24.4	27.9	34.9	68.0	292.8	184.7	139.4	135.9
87.5°	8.7	7.0	7.0	7.0	5.2	5.2	13.9	95.9	73.2	61.0	57.5
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)