

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: P509841

Luminaire Tested: **VERD-M-CA3-150-730-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-150-730-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 940mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21695 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

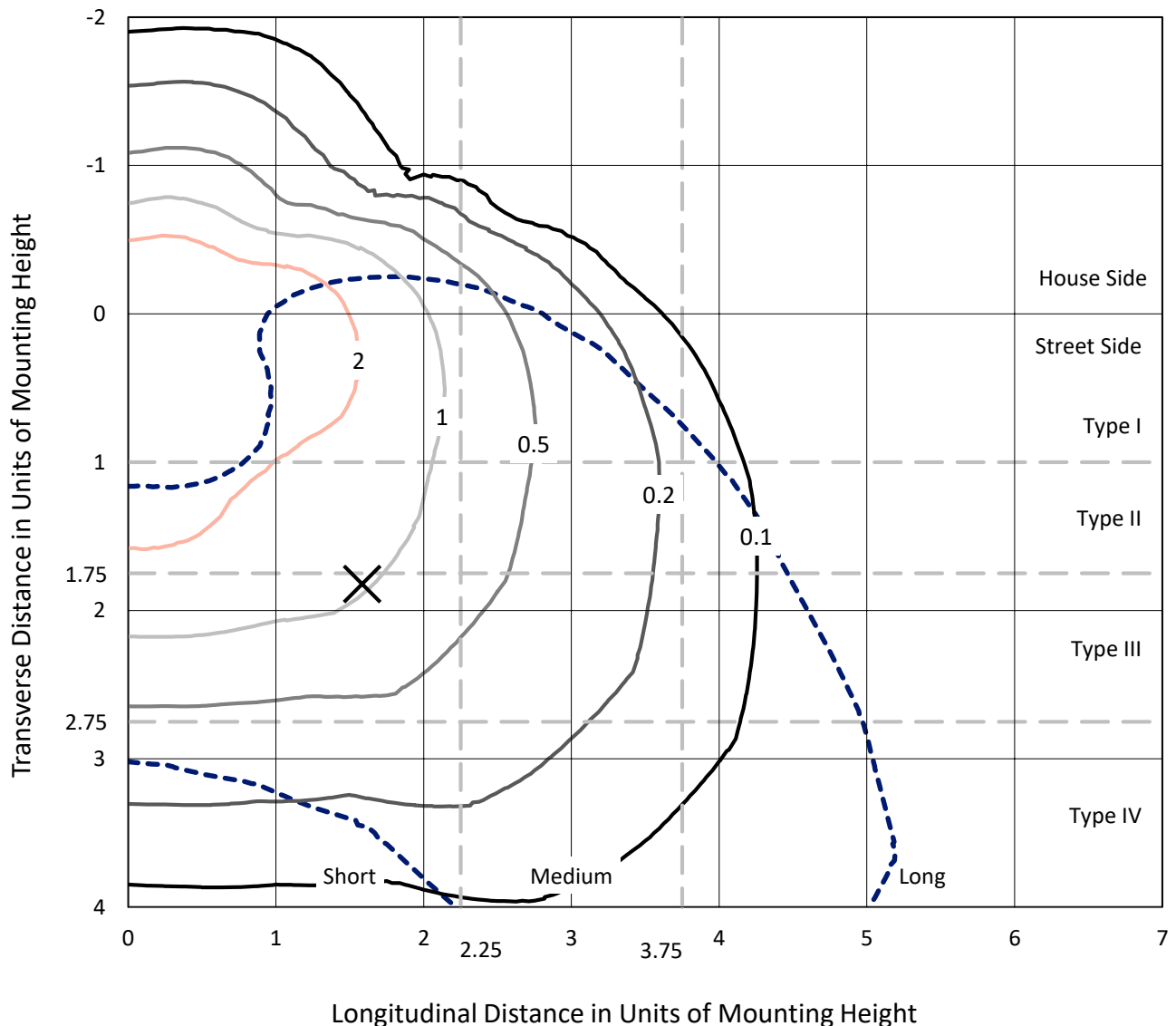
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

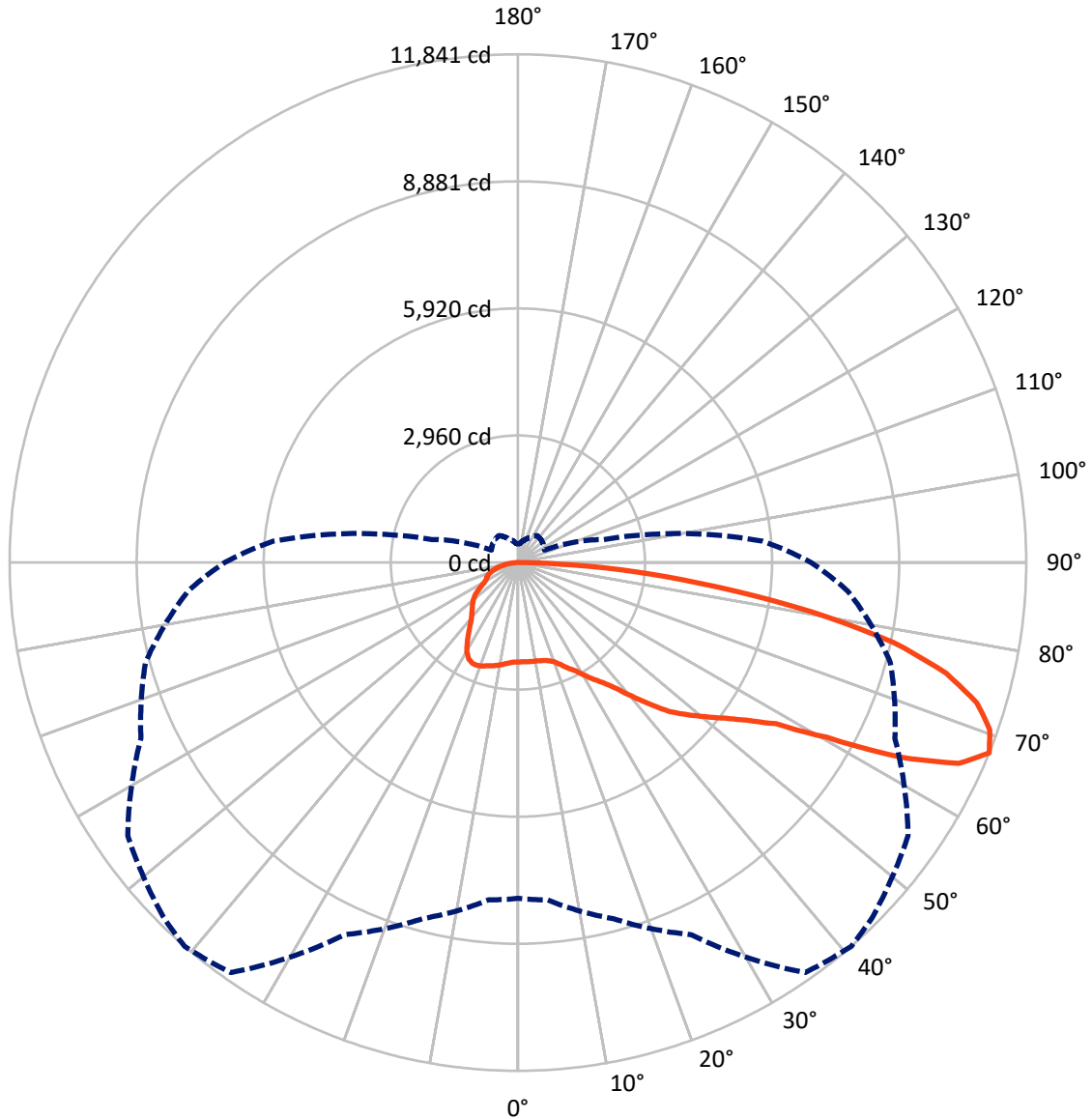
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4909.5	0.0	4909.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16785.5	0.0	16785.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	21695.0	0.0	21695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	1.0
10°-20°	694.2	3.2
20°-30°	1241.4	5.7
30°-40°	1946.5	9.0
40°-50°	3018.5	13.9
50°-60°	4255.3	19.6
60°-70°	5424.5	25.0
70°-80°	4059.3	18.7
80°-90°	831.4	3.8
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°	21695.0	100.0
0°-180°	21695.0	100.0

Coefficient of Utilization



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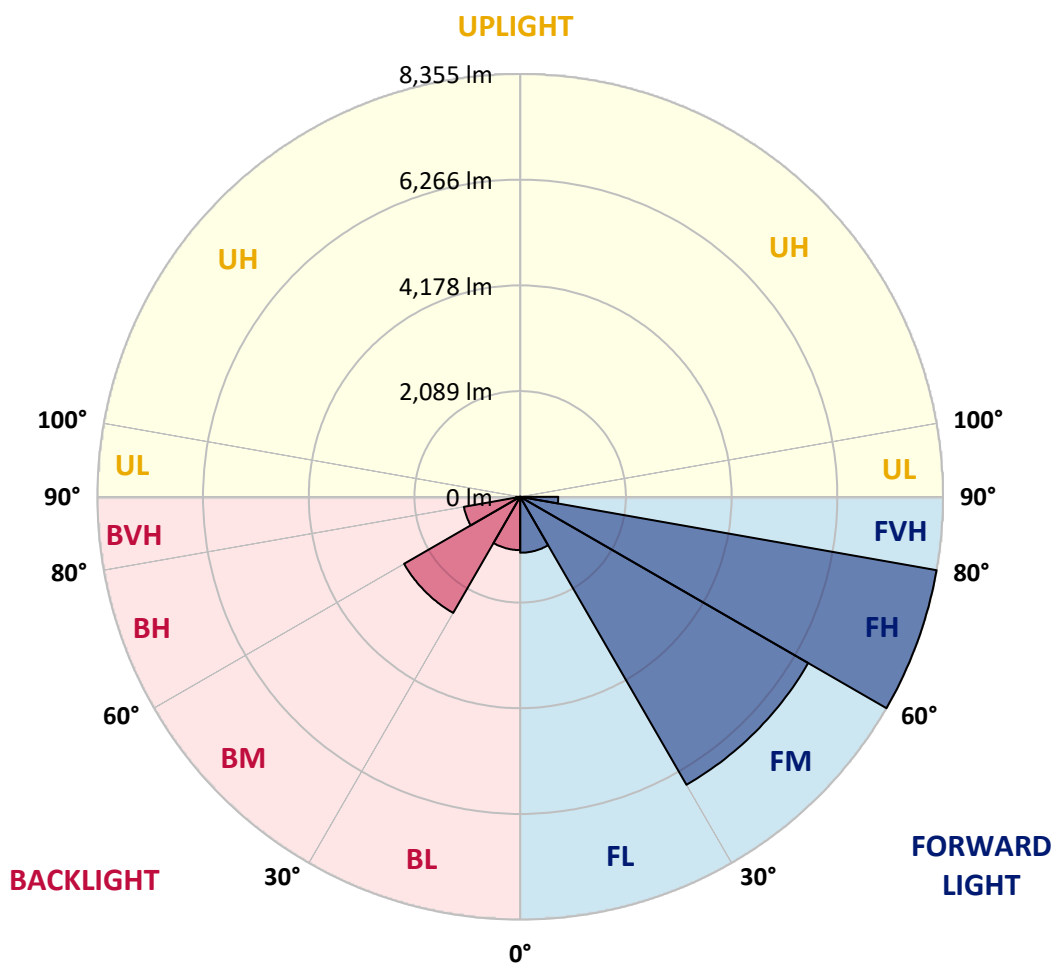
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1105.4	5.1			
FM (30°-60°)	6571.2	30.3			
FH (60°-80°)	8355.2	38.5			G4/12000
FVH (80°-90°)	753.7	3.5			G5
BL (0°-30°)	1054.0	4.9	B3/2500		
BM (30°-60°)	2649.1	12.2	B3/5000		
BH (60°-80°)	1128.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	77.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2316.3	2316.3	2316.3	2316.3	2316.3	2316.3	2316.3	2316.3	2316.3	2316.3	2316.3
2.5°	2287.8	2314.4	2310.4	2305.5	2313.4	2314.4	2291.8	2300.6	2305.5	2313.4	2326.1
5°	2293.7	2320.2	2318.3	2309.4	2315.3	2318.3	2297.7	2313.4	2313.4	2316.3	2331.0
7.5°	2281.0	2306.5	2306.5	2303.6	2316.3	2328.1	2309.4	2323.2	2331.0	2338.9	2348.7
10°	2269.2	2290.8	2298.6	2296.7	2326.1	2329.1	2316.3	2349.7	2362.5	2370.3	2382.1
12.5°	2256.4	2282.9	2293.7	2304.5	2336.0	2346.8	2339.9	2374.2	2400.8	2414.5	2427.3
15°	2250.5	2280.0	2297.7	2313.4	2347.7	2367.4	2367.4	2419.4	2450.8	2468.5	2491.1
17.5°	2291.8	2322.2	2336.0	2348.7	2380.1	2406.7	2404.7	2465.6	2511.7	2539.2	2580.4
20°	2393.9	2430.2	2438.1	2443.0	2462.6	2472.4	2469.5	2535.3	2599.1	2651.1	2697.3
22.5°	2571.6	2593.2	2597.1	2577.5	2582.4	2590.3	2585.4	2621.7	2694.3	2755.2	2837.7
25°	2716.9	2751.3	2741.5	2713.0	2716.9	2727.7	2713.0	2769.0	2821.0	2900.5	2984.0
27.5°	2870.1	2895.6	2884.8	2867.2	2863.2	2855.4	2852.4	2924.1	3000.7	3063.5	3187.3
30°	3056.7	3070.4	3039.0	3031.1	3038.0	3042.9	3024.3	3115.6	3185.3	3275.6	3442.6
32.5°	3370.9	3383.6	3338.5	3217.7	3220.7	3243.2	3227.5	3342.4	3474.0	3584.0	3753.8
35°	3771.5	3771.5	3736.2	3566.3	3437.7	3438.6	3442.6	3604.6	3849.1	4095.5	4270.3
37.5°	4177.0	4190.8	4124.0	3968.9	3805.9	3719.5	3646.8	3855.0	4175.1	4724.9	4985.1
40°	4599.2	4620.8	4520.7	4378.3	4190.8	4092.6	4008.1	4134.8	4566.8	5348.4	5554.6
42.5°	4968.4	4998.9	4895.8	4745.5	4615.0	4504.0	4376.4	4427.4	4997.9	5940.5	6057.4
45°	5312.1	5328.8	5241.4	5117.7	5009.7	4948.8	4859.5	4918.4	5490.8	6519.9	6498.3
47.5°	5565.4	5590.0	5510.5	5443.7	5332.7	5296.4	5295.4	5457.4	6045.6	6981.3	6881.2
50°	5976.9	5958.2	5779.5	5698.0	5630.2	5642.0	5670.5	5950.3	6697.6	7426.2	7203.3
52.5°	6667.1	6632.8	6236.1	6066.2	5982.8	6021.0	6035.8	6397.1	7355.5	7810.1	7469.4
55°	7559.7	7449.7	7161.0	6705.4	6443.3	6479.6	6462.9	6877.3	7881.8	8176.3	7666.7
57.5°	8149.8	8252.9	8114.5	7854.3	7203.3	7084.4	7045.2	7352.5	8368.8	8526.9	7871.0
60°	8662.4	8833.2	9053.2	8886.2	8710.5	8265.7	7899.4	7892.6	8797.9	8760.6	7953.4
62.5°	9203.4	9293.7	9632.5	9735.6	10061.6	9980.1	9489.1	8576.0	9227.0	8931.4	8001.5
65°	8656.5	8777.3	9393.9	9956.5	11163.3	11281.1	11121.1	9846.5	9524.5	9018.8	7932.8
67.5°	7823.8	7890.6	8588.7	9564.7	11662.1	11840.8	11679.8	11093.6	9689.4	8980.5	7720.7
70°	6756.5	6835.0	7501.8	8833.2	11636.6	11660.1	11597.3	11208.5	9623.7	8800.8	7186.6
72.5°	5478.1	5577.2	6163.4	7545.9	11078.8	11181.0	11081.8	10980.7	9439.1	8298.1	6266.5
75°	4144.6	4276.2	4799.6	6016.1	9790.6	10305.1	10317.9	10630.1	8722.3	7113.9	4548.2
77.5°	2826.9	2952.6	3448.5	4583.5	8127.2	8949.1	9163.1	9504.8	7287.7	5257.1	2481.3
80°	1591.7	1579.9	2209.3	3274.7	6198.8	6920.5	7189.5	7175.8	5117.7	2699.3	505.7
82.5°	735.4	737.4	1130.2	2090.5	4196.7	4672.9	4781.9	4162.3	1795.9	457.6	161.0
85°	366.3	370.2	544.0	1048.7	2369.3	2737.6	2602.0	1732.1	384.9	133.5	96.2
87.5°	145.3	139.4	215.0	431.1	855.2	906.3	791.4	346.6	69.7	47.1	32.4
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°	2316.3	2316.3	2316.3	2316.3	2316.3	2316.3	2316.3	2316.3	2316.3	2316.3	2316.3
2.5°	2323.2	2325.2	2334.0	2316.3	2321.2	2317.3	2314.4	2330.1	2329.1	2332.0	2327.1
5°	2330.1	2335.0	2343.8	2336.0	2343.8	2339.9	2342.8	2364.4	2367.4	2366.4	2366.4
7.5°	2348.7	2353.6	2370.3	2360.5	2378.2	2373.3	2374.2	2394.9	2398.8	2392.9	2390.9
10°	2388.0	2391.9	2415.5	2413.5	2420.4	2416.5	2412.5	2421.4	2419.4	2410.6	2406.7
12.5°	2433.2	2444.0	2470.5	2471.5	2480.3	2460.7	2440.0	2437.1	2431.2	2417.5	2414.5
15°	2500.9	2513.7	2553.9	2544.1	2538.2	2496.0	2461.6	2434.1	2410.6	2398.8	2388.0
17.5°	2598.1	2619.7	2675.7	2645.3	2602.0	2540.2	2480.3	2420.4	2370.3	2328.1	2311.4
20°	2721.8	2746.4	2793.5	2753.3	2687.5	2595.2	2498.0	2390.0	2281.0	2187.7	2173.9
22.5°	2869.1	2908.4	2942.8	2850.5	2753.3	2636.4	2498.0	2342.8	2162.2	2022.7	1988.4
25°	3041.0	3071.4	3060.6	2931.0	2790.6	2643.3	2470.5	2259.4	2004.1	1842.1	1814.6
27.5°	3227.5	3241.3	3157.8	2969.3	2794.5	2603.0	2392.9	2111.1	1819.5	1691.8	1665.3
30°	3457.3	3416.0	3257.0	2992.8	2755.2	2513.7	2254.5	1894.1	1669.2	1557.3	1526.9
32.5°	3704.7	3629.1	3327.7	2976.2	2668.8	2364.4	2040.4	1740.9	1569.1	1432.6	1407.1
35°	4176.0	3961.0	3430.8	2926.1	2518.6	2165.1	1833.2	1623.1	1463.0	1316.7	1293.2
37.5°	4812.3	4438.2	3575.1	2856.4	2340.9	1971.7	1679.1	1497.4	1359.0	1207.7	1170.4
40°	5307.2	4920.3	3806.8	2781.7	2176.9	1788.1	1567.1	1431.6	1290.2	1129.2	1096.8
42.5°	5778.5	5361.2	4091.6	2698.3	2008.0	1660.4	1518.0	1416.9	1271.6	1107.6	1077.2
45°	6194.8	5717.6	4337.1	2614.8	1817.5	1542.6	1481.7	1388.4	1245.1	1080.1	1050.6
47.5°	6531.6	6024.0	4550.2	2524.5	1644.7	1453.2	1434.6	1336.4	1194.0	1024.1	988.8
50°	6836.0	6283.2	4697.4	2428.3	1475.8	1380.6	1357.0	1241.1	1092.9	942.6	920.0
52.5°	7023.6	6459.0	4785.8	2444.0	1315.8	1299.1	1260.8	1142.0	1004.5	875.9	846.4
55°	7220.0	6624.9	4784.8	2355.6	1182.2	1176.3	1140.0	1048.7	940.7	832.7	815.0
57.5°	7300.5	6639.6	4695.5	1940.2	1064.4	1027.1	1019.2	971.1	876.8	774.7	755.1
60°	7354.5	6574.8	4526.6	1324.6	916.1	889.6	927.9	895.5	810.1	703.0	683.4
62.5°	7301.4	6504.1	4083.7	956.4	803.2	817.9	854.3	818.9	729.6	632.3	615.7
65°	7174.8	6234.1	3224.6	745.3	753.1	785.5	814.0	755.1	591.1	494.9	485.1
67.5°	6829.2	5720.6	2074.8	683.4	724.6	758.0	767.9	639.2	535.1	442.8	432.0
70°	6101.6	4592.4	799.3	644.1	696.2	710.9	670.6	586.2	491.9	412.4	402.6
72.5°	4773.0	3015.4	461.5	589.1	635.3	621.5	622.5	526.3	443.8	368.2	360.4
75°	2966.3	1091.9	410.4	524.3	538.1	563.6	531.2	456.6	382.0	336.8	327.0
77.5°	980.9	310.3	380.0	451.7	482.1	463.5	444.8	389.8	327.0	291.6	286.7
80°	237.6	232.7	340.7	353.5	378.0	346.6	344.6	324.0	275.9	255.3	250.4
82.5°	146.3	166.9	271.0	219.9	252.3	255.3	290.6	267.1	201.3	209.1	202.3
85°	90.3	128.6	142.4	106.0	107.0	143.4	173.8	161.0	120.8	113.9	112.9
87.5°	30.4	26.5	30.4	22.6	30.4	52.0	78.6	74.6	50.1	34.4	32.4
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)