

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: P265675

Luminaire Tested: **ARCH-L-AF72-200-D-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-200-D-U-T3-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21215.7 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

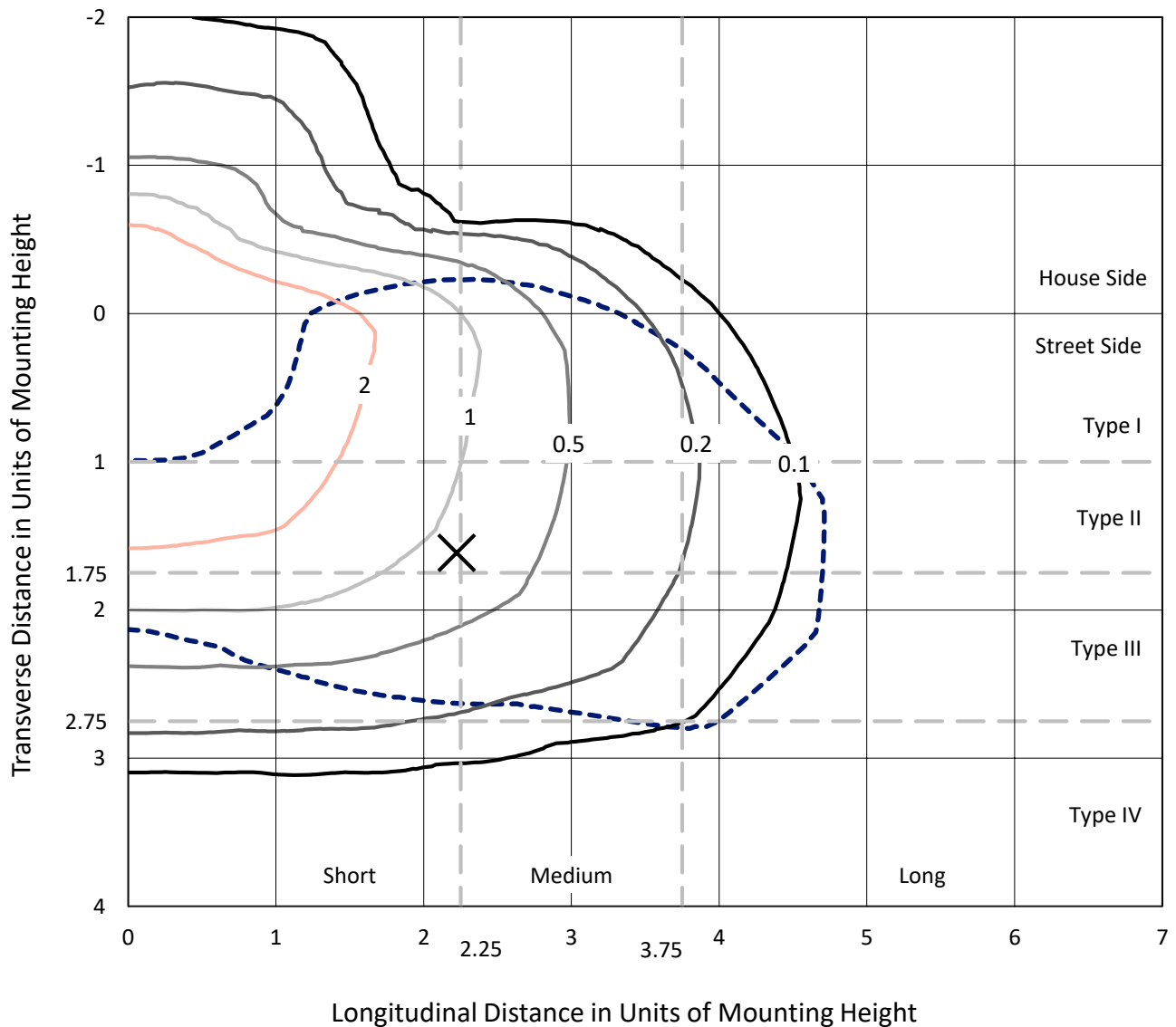
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

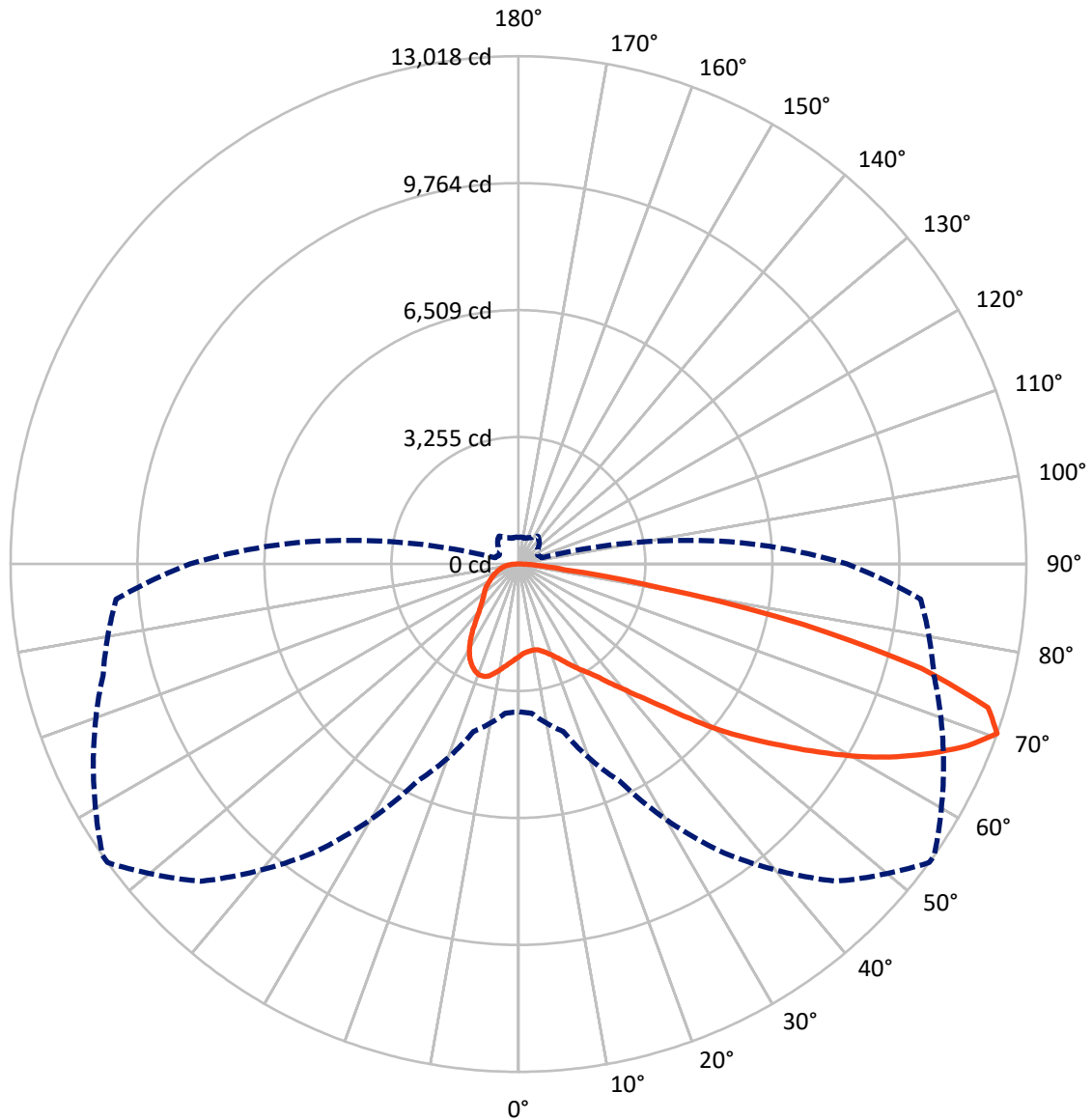
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4811.7	0.0	4811.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	16404.1	0.0	16404.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	21215.7	0.0	21215.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.9	1.1
10°-20°	744.3	3.5
20°-30°	1293.1	6.1
30°-40°	1889.7	8.9
40°-50°	2965.9	14.0
50°-60°	4560.8	21.5
60°-70°	5572.2	26.3
70°-80°	3454.8	16.3
80°-90°	501.9	2.4
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°	21215.7	100.0
0°-180°	21215.7	100.0



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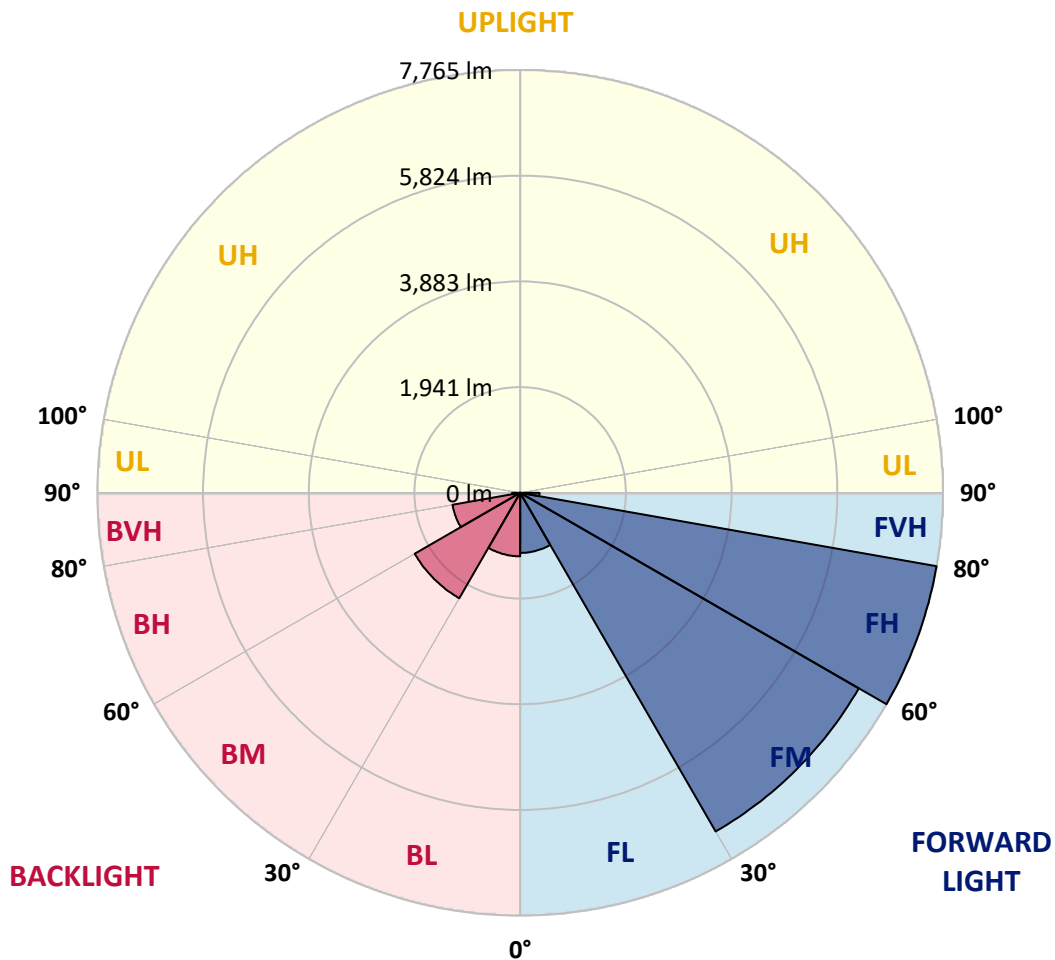
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1103.8	5.2			
FM	(30°-60°)	7180.5	33.8			
FH	(60°-80°)	7765.3	36.6			G4/12000
FVH	(80°-90°)	354.4	1.7			G3/500
BL	(0°-30°)	1166.5	5.5	B3/2500		
BM	(30°-60°)	2235.9	10.5	B2/2500		
BH	(60°-80°)	1261.7	5.9	B3/2500		G3/2500
BVH	(80°-90°)	147.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6
2.5°	2280.3	2272.6	2272.6	2284.3	2288.2	2299.8	2299.8	2303.7	2315.3	2334.8	2358.1
5°	2210.5	2206.5	2210.5	2226.0	2233.7	2257.1	2264.8	2268.7	2292.0	2323.0	2358.1
7.5°	2140.5	2136.7	2144.4	2167.7	2191.1	2226.0	2245.5	2249.3	2284.3	2327.0	2373.6
10°	2117.2	2113.4	2125.0	2144.4	2167.7	2206.5	2237.7	2241.5	2292.0	2342.5	2408.5
12.5°	2148.2	2144.4	2156.0	2175.4	2198.8	2226.0	2260.9	2264.8	2330.9	2396.9	2466.8
15°	2226.0	2226.0	2229.9	2241.5	2264.8	2288.2	2319.2	2323.0	2393.1	2470.7	2540.6
17.5°	2346.5	2338.6	2338.6	2334.8	2350.2	2362.0	2400.8	2404.8	2478.6	2548.4	2618.4
20°	2494.1	2490.1	2474.7	2455.2	2451.4	2459.1	2497.9	2501.8	2575.6	2633.9	2699.9
22.5°	2672.7	2676.6	2641.6	2598.9	2579.6	2591.2	2626.1	2630.0	2684.3	2734.9	2793.2
25°	2909.7	2898.0	2847.5	2785.5	2746.6	2746.6	2781.5	2781.5	2831.9	2863.1	2902.0
27.5°	3135.1	3111.6	3065.0	2975.7	2913.7	2925.2	2960.3	2960.3	3006.8	3018.5	3037.9
30°	3379.8	3356.4	3298.1	3185.5	3104.0	3096.2	3138.9	3135.1	3197.2	3193.4	3177.8
32.5°	3678.9	3667.2	3570.1	3426.3	3317.6	3290.4	3329.3	3333.2	3372.0	3360.3	3309.9
35°	4098.4	4094.6	4005.3	3752.7	3609.0	3558.5	3581.8	3581.8	3609.0	3577.9	3492.4
37.5°	4626.8	4634.5	4556.8	4183.9	3981.8	3896.5	3900.4	3896.5	3904.3	3869.3	3779.9
40°	5155.2	5174.5	5170.6	4720.1	4463.6	4315.9	4261.6	4253.8	4273.2	4257.7	4172.3
42.5°	5850.5	5897.2	5788.4	5380.5	5093.0	4844.3	4696.7	4677.3	4720.1	4739.5	4657.9
45°	6573.1	6557.5	6386.6	6091.3	5831.1	5512.4	5232.7	5201.7	5232.7	5291.0	5205.6
47.5°	6949.8	6938.2	6895.5	6747.9	6709.0	6343.9	5920.4	5893.2	5835.0	5916.5	5815.5
50°	7571.5	7583.1	7408.3	7392.7	7556.0	7354.0	6697.4	6635.2	6530.4	6596.3	6510.9
52.5°	8022.1	7971.6	7862.9	7998.8	8507.7	8399.0	7427.7	7400.5	7303.4	7287.9	7249.1
55°	8204.7	8204.7	8224.2	8538.7	9265.2	9121.5	8220.2	8247.3	8115.4	8006.6	8057.1
57.5°	8259.0	8282.5	8449.4	8969.9	10154.9	9684.7	9094.4	9133.2	8942.7	8725.2	8884.5
60°	7991.1	8060.9	8461.0	9214.8	10656.0	10283.1	10015.1	10026.6	9750.8	9432.3	9711.9
62.5°	7303.4	7388.9	8103.7	9315.8	10574.4	10896.8	10885.2	10912.4	10535.5	10139.3	10488.9
65°	6460.4	6545.9	7307.4	9032.2	10512.2	11335.8	11681.6	11755.4	11269.7	10737.6	10974.6
67.5°	5221.2	5333.9	6056.5	8076.5	10209.2	11697.1	12427.4	12505.1	11837.0	11048.3	10931.8
70°	3783.8	3838.2	4444.3	6137.9	8973.9	11499.1	13018.0	13014.0	12023.5	11025.1	10349.2
72.5°	1821.9	1864.7	2389.1	3811.0	6417.8	9758.6	12590.6	12664.5	11767.1	10687.0	9016.6
75°	749.7	792.6	967.4	1608.2	3368.1	6448.8	10671.5	10846.3	10687.0	9591.6	7054.7
77.5°	466.2	481.8	567.2	831.3	1538.3	3010.7	7470.5	7707.5	8468.9	7684.1	4657.9
80°	349.6	361.3	423.5	582.7	971.2	1111.1	3710.0	4009.1	5131.7	4409.2	2109.4
82.5°	291.4	295.3	338.0	423.5	660.4	637.1	1188.7	1324.7	2393.1	1682.2	726.5
85°	271.9	279.7	303.0	303.0	419.6	400.1	493.3	516.6	695.4	574.9	252.6
87.5°	139.9	132.1	268.1	237.0	217.6	194.3	209.8	225.4	260.2	275.8	112.6
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°	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6
2.5°	2365.9	2377.5	2396.9	2416.4	2439.6	2466.8	2482.3	2501.8	2517.3	2509.5	2505.7
5°	2377.5	2396.9	2439.6	2478.6	2525.1	2579.6	2614.4	2653.4	2684.3	2692.2	2680.5
7.5°	2396.9	2431.9	2490.1	2560.1	2622.2	2692.2	2746.6	2800.9	2839.8	2847.5	2847.5
10°	2443.5	2482.3	2560.1	2653.4	2727.2	2800.9	2863.1	2905.8	2940.8	2956.3	2956.3
12.5°	2509.5	2556.1	2649.5	2762.1	2843.7	2913.7	2948.5	2968.0	2983.5	2999.0	3002.9
15°	2587.3	2637.8	2750.4	2870.9	2956.3	2991.3	2991.3	2987.5	2987.5	2995.2	3002.9
17.5°	2665.0	2719.3	2835.9	2964.0	3018.5	2999.0	2971.9	2960.3	2952.4	2948.5	2960.3
20°	2746.6	2800.9	2917.4	3037.9	3022.3	2940.8	2902.0	2874.8	2851.4	2839.8	2855.4
22.5°	2835.9	2886.4	3006.8	3088.5	2971.9	2847.5	2773.7	2730.9	2692.2	2668.9	2684.3
25°	2940.8	2991.3	3107.9	3104.0	2882.5	2707.8	2591.2	2521.3	2478.6	2455.2	2455.2
27.5°	3065.0	3107.9	3220.6	3065.0	2758.2	2521.3	2350.2	2284.3	2272.6	2253.2	2253.2
30°	3193.4	3228.2	3325.3	2975.7	2587.3	2276.5	2090.0	2058.9	2062.8	2043.5	2047.2
32.5°	3325.3	3360.3	3387.6	2843.7	2365.9	2000.6	1876.4	1853.1	1849.3	1833.6	1818.1
35°	3511.8	3562.4	3395.4	2665.0	2097.8	1771.5	1682.2	1658.8	1635.5	1581.0	1581.0
37.5°	3795.5	3849.9	3375.9	2443.5	1821.9	1592.8	1511.2	1480.0	1441.3	1386.9	1367.4
40°	4183.9	4183.9	3333.2	2194.9	1600.5	1449.1	1371.4	1332.5	1289.7	1235.3	1223.8
42.5°	4642.4	4533.6	3267.1	1942.3	1437.4	1351.9	1282.1	1239.2	1188.7	1126.6	1118.7
45°	5178.4	4883.1	3173.9	1717.1	1316.9	1293.6	1250.9	1177.0	1091.6	1025.5	1013.9
47.5°	5698.9	5197.9	3084.5	1557.8	1215.9	1270.4	1235.3	1111.1	994.6	901.3	889.6
50°	6270.1	5477.5	2979.7	1425.7	1138.2	1254.8	1215.9	1013.9	885.6	819.8	811.9
52.5°	6841.1	5761.1	2867.0	1285.8	1072.1	1223.8	1169.4	943.9	881.9	792.6	780.8
55°	7443.3	6091.3	2734.9	1130.4	994.6	1161.6	1107.3	940.2	909.1	792.6	765.3
57.5°	8029.9	6456.5	2521.3	979.0	909.1	1068.4	1083.8	916.8	850.8	784.7	753.7
60°	8678.6	6845.1	2167.7	850.8	835.2	990.7	1052.8	866.3	784.7	761.5	746.0
62.5°	9199.3	7194.6	1693.8	761.5	773.1	928.5	1013.9	835.2	757.5	738.0	734.3
65°	9424.5	7202.4	1215.9	683.7	710.9	870.2	975.1	808.0	734.3	726.5	722.5
67.5°	9187.5	6806.2	854.6	609.9	644.9	815.8	924.5	780.8	710.9	714.8	707.1
70°	8422.1	5970.9	625.5	540.1	582.7	757.5	870.2	746.0	683.7	691.4	679.8
72.5°	7047.1	4653.9	501.2	481.8	532.2	695.4	815.8	707.1	641.0	644.9	621.5
75°	5205.6	3084.5	419.6	431.1	473.9	637.1	746.0	656.5	594.4	578.9	563.2
77.5°	3096.2	1585.0	345.8	376.7	423.5	567.2	668.2	594.4	543.8	516.6	505.0
80°	1278.1	641.0	283.5	318.5	369.1	505.0	590.5	520.6	485.7	458.5	442.9
82.5°	508.9	314.6	225.4	260.2	310.8	439.0	516.6	458.5	423.5	404.0	361.3
85°	194.3	155.3	151.5	182.5	233.1	338.0	427.4	384.7	357.3	307.0	295.3
87.5°	77.8	69.9	69.9	89.3	132.1	213.6	307.0	268.1	279.7	221.4	225.4
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)