

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: P265693

Luminaire Tested: **ARCH-L-AF72-220-D-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265693
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-AF72-220-D-U-T3-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22632 lumens
Efficiency: N/A
Efficacy: 101.9 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

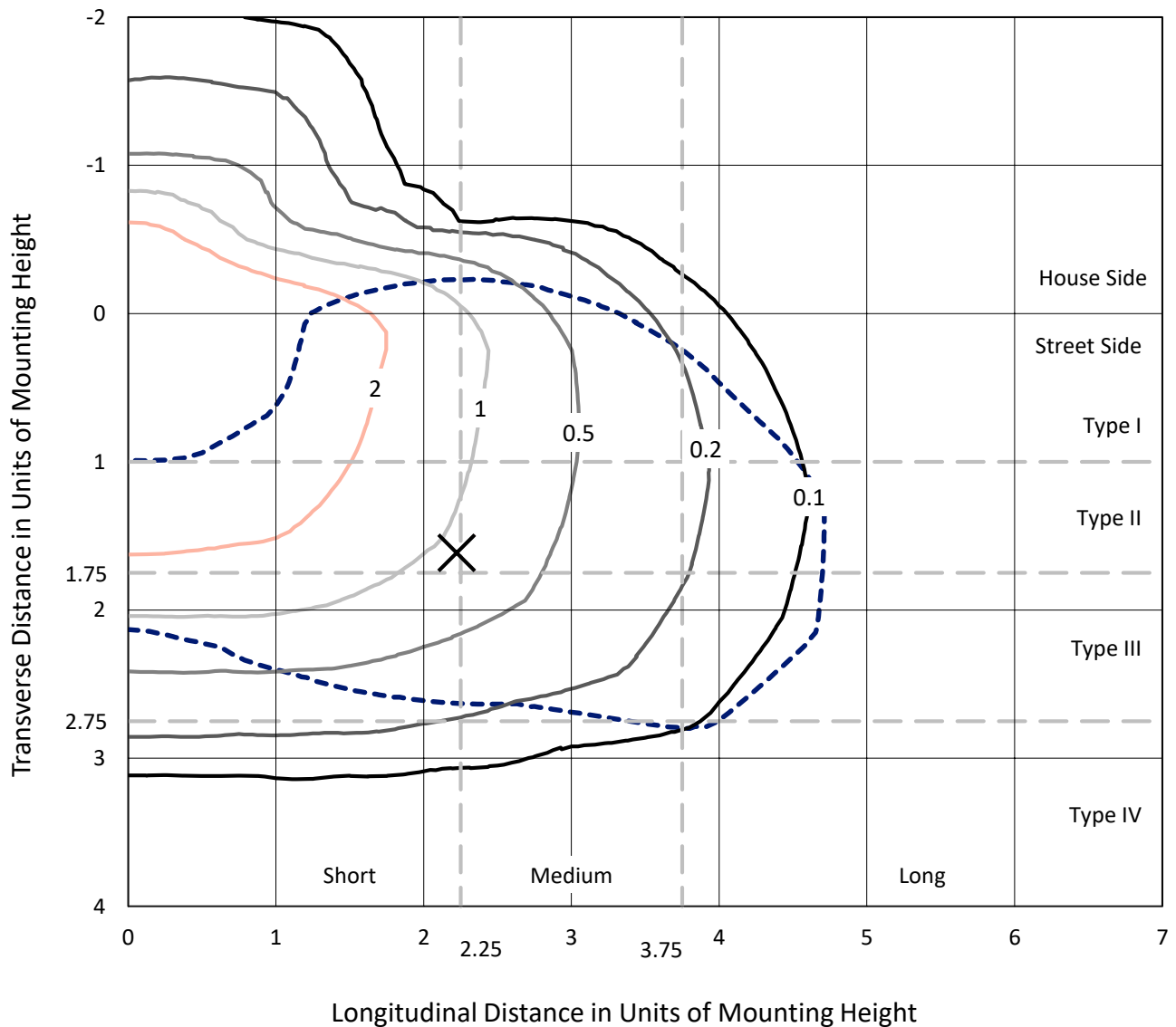
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: ARCH-L-AF72-220-D-U-T3-7027

Iso-Footcandle Lines of Horizontal Illumination

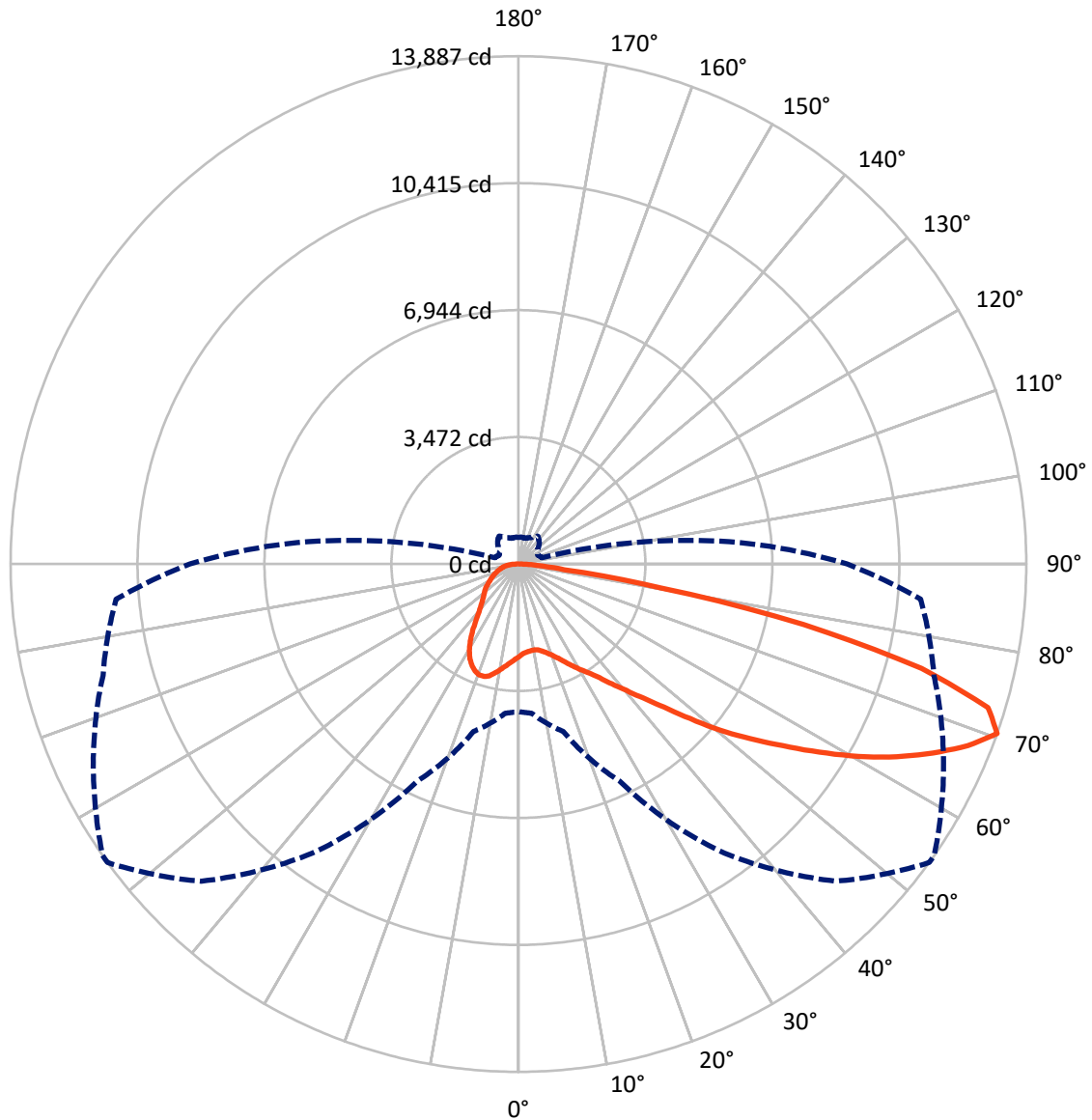
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P265693
CATALOG NUMBER: ARCH-L-AF72-220-D-U-T3-7027

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: ARCH-L-AF72-220-D-U-T3-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5132.9	0.0	5132.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	17499.1	0.0	17499.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	22632.0	0.0	22632.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.5	1.1
10°-20°	794.0	3.5
20°-30°	1379.4	6.1
30°-40°	2015.9	8.9
40°-50°	3163.9	14.0
50°-60°	4865.3	21.5
60°-70°	5944.2	26.3
70°-80°	3685.4	16.3
80°-90°	535.4	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°	22632.0	100.0
0°-180°	22632.0	100.0



REPORT NUMBER: P265693

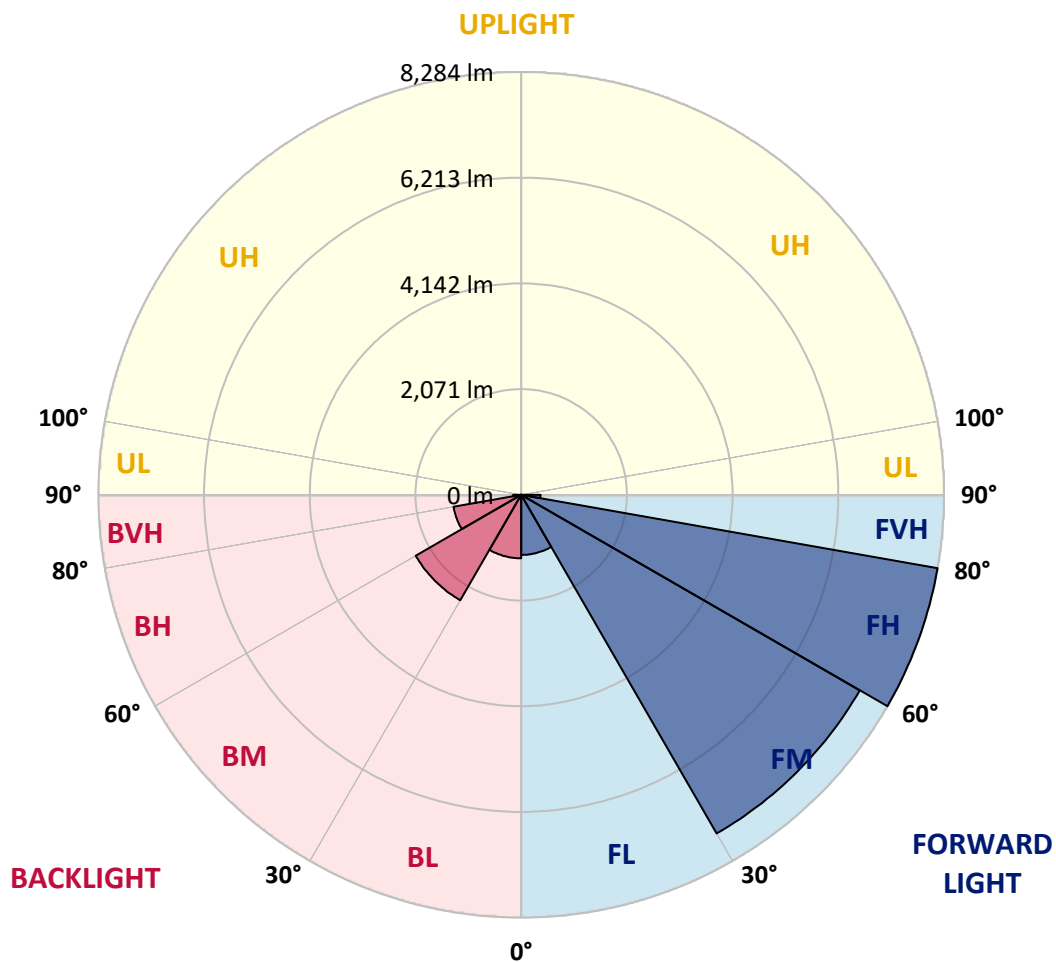
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1177.5	5.2			
FM	(30°-60°)	7659.9	33.8			
FH	(60°-80°)	8283.7	36.6			G4/12000
FVH	(80°-90°)	378.1	1.7			G3/500
BL	(0°-30°)	1244.4	5.5	B3/2500		
BM	(30°-60°)	2385.2	10.5	B2/2500		
BH	(60°-80°)	1346.0	5.9	B3/2500		G3/2500
BVH	(80°-90°)	157.3	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





REPORT NUMBER: P265693

CATALOG NUMBER: ARCH-L-AF72-220-D-U-T3-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1
2.5°	2432.6	2424.3	2424.3	2436.7	2440.9	2453.4	2453.4	2457.5	2469.9	2490.6	2515.4
5°	2358.1	2353.9	2358.1	2374.6	2382.8	2407.7	2416.0	2420.2	2445.0	2478.2	2515.4
7.5°	2283.4	2279.3	2287.5	2312.4	2337.3	2374.6	2395.3	2399.5	2436.7	2482.3	2532.1
10°	2258.6	2254.3	2266.9	2287.5	2312.4	2353.9	2387.1	2391.2	2445.0	2498.9	2569.3
12.5°	2291.7	2287.5	2300.0	2320.7	2345.6	2374.6	2411.9	2416.0	2486.5	2556.9	2631.6
15°	2374.6	2374.6	2378.7	2391.2	2416.0	2440.9	2474.0	2478.2	2552.8	2635.6	2710.2
17.5°	2503.0	2494.8	2494.8	2490.6	2507.2	2519.7	2561.1	2565.2	2643.9	2718.5	2793.1
20°	2660.5	2656.4	2639.8	2619.1	2615.0	2623.2	2664.7	2668.9	2747.6	2809.7	2880.1
22.5°	2851.2	2855.4	2818.1	2772.3	2751.7	2764.2	2801.5	2805.5	2863.5	2917.4	2979.6
25°	3104.0	3091.4	3037.7	2971.4	2929.9	2929.9	2967.2	2967.2	3021.1	3054.1	3095.6
27.5°	3344.3	3319.4	3269.7	3174.4	3108.0	3120.5	3157.8	3157.8	3207.6	3220.0	3240.7
30°	3605.3	3580.6	3518.3	3398.2	3311.2	3302.9	3348.4	3344.3	3410.7	3406.5	3389.9
32.5°	3924.4	3912.1	3808.5	3655.2	3539.1	3510.0	3551.4	3555.6	3597.2	3584.6	3530.8
35°	4372.1	4367.9	4272.6	4003.2	3849.9	3796.0	3820.9	3820.9	3849.9	3816.8	3725.6
37.5°	4935.6	4943.9	4861.1	4463.1	4247.7	4156.5	4160.7	4156.5	4164.8	4127.5	4032.2
40°	5499.2	5519.9	5515.9	5035.1	4761.6	4604.2	4546.1	4537.8	4558.4	4542.0	4450.8
42.5°	6241.1	6290.8	6174.8	5739.6	5432.9	5167.7	5010.2	4989.5	5035.1	5055.8	4968.9
45°	7011.9	6995.3	6812.9	6498.0	6220.4	5880.6	5582.2	5549.0	5582.2	5644.3	5553.1
47.5°	7413.8	7401.4	7355.9	7198.4	7156.8	6767.3	6315.7	6286.7	6224.4	6311.5	6203.8
50°	8076.9	8089.3	7902.8	7886.3	8060.3	7844.8	7144.5	7078.1	6966.3	7036.8	6945.5
52.5°	8557.7	8503.7	8387.7	8532.8	9075.7	8959.6	7923.6	7894.6	7791.0	7774.4	7732.9
55°	8752.4	8752.4	8773.0	9108.9	9883.7	9730.4	8769.0	8798.0	8657.1	8541.1	8595.0
57.5°	8810.3	8835.3	9013.5	9568.7	10832.8	10331.2	9701.3	9742.8	9539.8	9307.7	9477.6
60°	8524.5	8599.0	9025.9	9829.9	11367.3	10969.6	10683.5	10695.9	10401.7	10061.9	10360.3
62.5°	7791.0	7882.1	8644.7	9937.6	11280.2	11624.2	11611.9	11640.9	11238.9	10816.2	11189.2
65°	6891.6	6982.9	7795.1	9635.1	11214.0	12092.5	12461.4	12540.1	12022.0	11454.4	11707.2
67.5°	5569.8	5689.9	6460.7	8615.6	10890.8	12477.9	13257.0	13339.9	12627.1	11785.9	11661.5
70°	4036.4	4094.5	4740.9	6547.7	9573.0	12266.6	13887.0	13882.9	12826.1	11761.0	11040.0
72.5°	1943.7	1989.1	2548.6	4065.4	6846.2	10410.1	13431.1	13509.9	12552.6	11400.5	9618.5
75°	799.9	845.5	1032.0	1715.7	3593.0	6879.2	11384.0	11570.3	11400.5	10231.9	7525.7
77.5°	497.3	513.9	605.1	886.8	1641.1	3211.7	7969.1	8221.9	9034.3	8197.0	4968.9
80°	372.9	385.5	451.7	621.5	1036.0	1185.3	3957.7	4276.7	5474.5	4703.5	2250.3
82.5°	310.9	314.9	360.5	451.7	704.5	679.7	1268.0	1413.2	2552.8	1794.5	775.0
85°	290.2	298.3	323.2	323.2	447.5	426.9	526.2	551.2	741.8	613.4	269.4
87.5°	149.2	140.9	285.9	252.9	232.0	207.1	223.8	240.3	277.7	294.3	120.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P265693

CATALOG NUMBER: ARCH-L-AF72-220-D-U-T3-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1
2.5°	2523.8	2536.3	2556.9	2577.6	2602.5	2631.6	2648.2	2668.9	2685.5	2677.0	2672.9
5°	2536.3	2556.9	2602.5	2643.9	2693.7	2751.7	2789.0	2830.4	2863.5	2871.9	2859.5
7.5°	2556.9	2594.2	2656.4	2730.9	2797.3	2871.9	2929.9	2987.9	3029.4	3037.7	3037.7
10°	2606.6	2648.2	2730.9	2830.4	2909.3	2987.9	3054.1	3099.8	3137.2	3153.7	3153.7
12.5°	2677.0	2726.8	2826.2	2946.5	3033.4	3108.0	3145.3	3166.2	3182.7	3199.3	3203.4
15°	2760.0	2813.9	2934.0	3062.5	3153.7	3191.0	3191.0	3186.8	3186.8	3195.1	3203.4
17.5°	2842.9	2900.8	3025.2	3161.9	3220.0	3199.3	3170.3	3157.8	3149.5	3145.3	3157.8
20°	2929.9	2987.9	3112.3	3240.7	3224.1	3137.2	3095.6	3066.6	3041.8	3029.4	3046.0
22.5°	3025.2	3079.1	3207.6	3294.5	3170.3	3037.7	2958.8	2913.4	2871.9	2847.0	2863.5
25°	3137.2	3191.0	3315.4	3311.2	3075.0	2888.5	2764.2	2689.5	2643.9	2619.1	2619.1
27.5°	3269.7	3315.4	3435.5	3269.7	2942.3	2689.5	2507.2	2436.7	2424.3	2403.5	2403.5
30°	3406.5	3443.7	3547.3	3174.4	2760.0	2428.5	2229.6	2196.4	2200.6	2179.7	2184.0
32.5°	3547.3	3584.6	3613.7	3033.4	2523.8	2134.3	2001.7	1976.7	1972.6	1956.0	1939.4
35°	3746.3	3800.2	3622.0	2842.9	2237.9	1889.8	1794.5	1769.5	1744.7	1686.7	1686.7
37.5°	4048.8	4106.8	3601.2	2606.6	1943.7	1699.1	1612.1	1579.0	1537.4	1479.5	1458.8
40°	4463.1	4463.1	3555.6	2341.4	1707.4	1545.8	1462.9	1421.5	1375.8	1317.9	1305.3
42.5°	4952.3	4836.1	3485.2	2072.1	1533.3	1442.1	1367.6	1321.9	1268.0	1201.8	1193.5
45°	5524.1	5209.2	3385.7	1831.7	1404.9	1379.9	1334.4	1255.7	1164.6	1094.0	1081.6
47.5°	6079.4	5544.9	3290.4	1661.8	1297.2	1355.2	1317.9	1185.3	1060.9	961.5	949.0
50°	6688.6	5843.2	3178.6	1520.9	1214.1	1338.6	1297.2	1081.6	944.8	874.4	866.1
52.5°	7297.8	6145.8	3058.4	1371.7	1143.8	1305.3	1247.3	1007.0	940.7	845.5	833.0
55°	7940.2	6498.0	2917.4	1206.0	1060.9	1239.1	1181.1	1002.9	969.7	845.5	816.4
57.5°	8565.9	6887.6	2689.5	1044.3	969.7	1139.6	1156.2	978.1	907.6	837.1	804.0
60°	9258.0	7302.0	2312.4	907.6	890.9	1056.8	1123.1	924.1	837.1	812.2	795.7
62.5°	9813.3	7674.8	1806.9	812.2	824.6	990.4	1081.6	890.9	808.1	787.4	783.2
65°	10053.7	7683.3	1297.2	729.3	758.3	928.3	1040.1	862.0	783.2	775.0	770.8
67.5°	9800.9	7260.6	911.7	650.6	687.9	870.3	986.2	833.0	758.3	762.5	754.2
70°	8984.5	6369.5	667.3	576.1	621.5	808.1	928.3	795.7	729.3	737.7	725.2
72.5°	7517.5	4964.7	534.6	513.9	567.8	741.8	870.3	754.2	683.8	687.9	663.0
75°	5553.1	3290.4	447.5	460.0	505.6	679.7	795.7	700.4	634.1	617.5	600.8
77.5°	3302.9	1690.8	368.8	402.0	451.7	605.1	712.7	634.1	580.1	551.2	538.8
80°	1363.4	683.8	302.5	339.7	393.6	538.8	629.9	555.3	518.1	488.9	472.4
82.5°	542.8	335.6	240.3	277.7	331.6	468.2	551.2	488.9	451.7	430.9	385.5
85°	207.1	165.7	161.7	194.8	248.7	360.5	455.9	410.3	381.3	327.4	314.9
87.5°	82.9	74.6	74.6	95.3	140.9	227.9	327.4	285.9	298.3	236.3	240.3
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)