

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: P265738

Luminaire Tested: **ARCH-L-AF72-270-D-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265738
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-AF72-270-D-U-T3-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25805.1 lumens
Efficiency: N/A
Efficacy: 94.5 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): 273
Input Voltage (V): NR
Input Current (A_{in}): 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

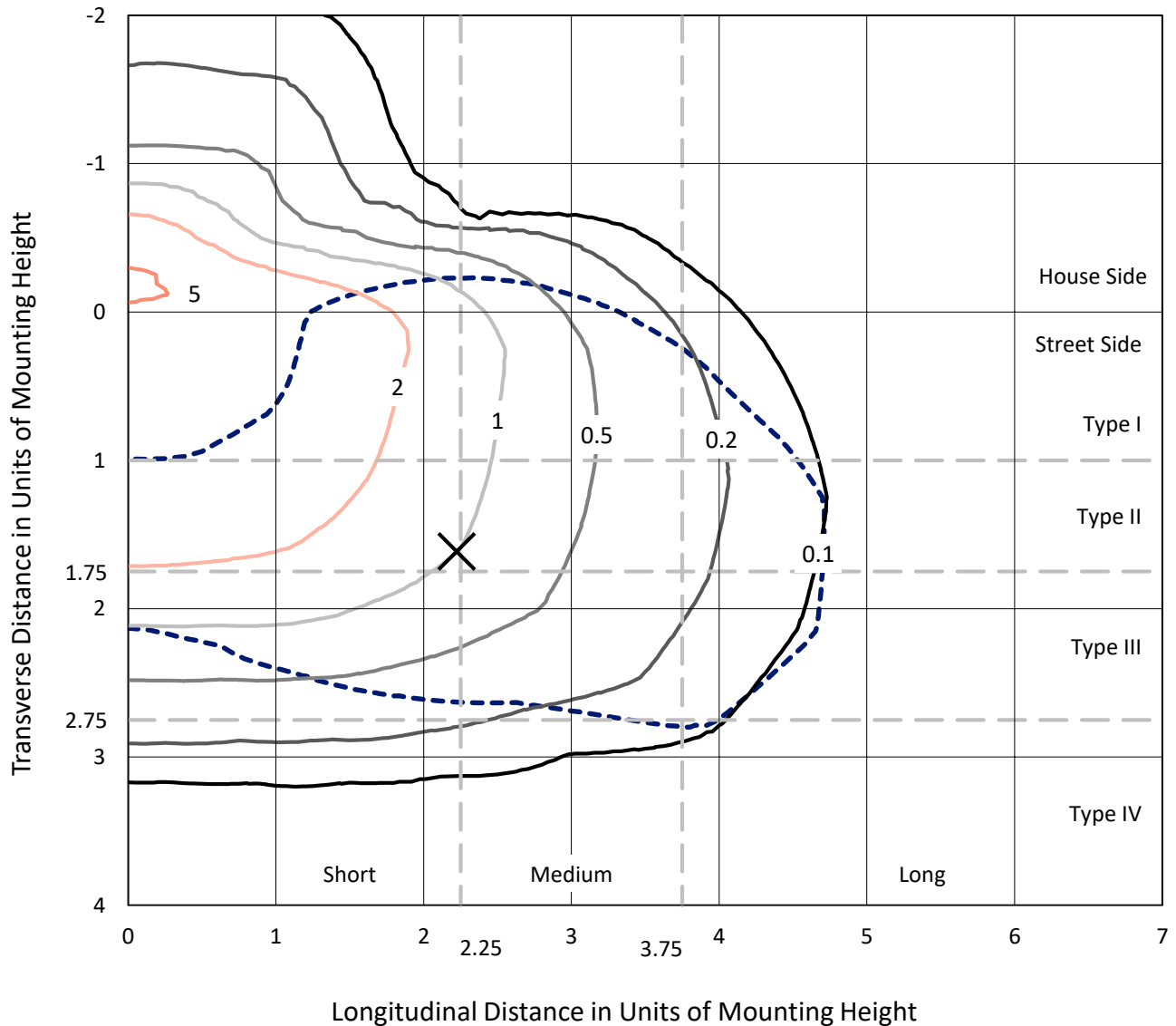


REPORT NUMBER: P265738

CATALOG NUMBER: ARCH-L-AF72-270-D-U-T3-7027

Iso-Footcandle Lines of Horizontal Illumination

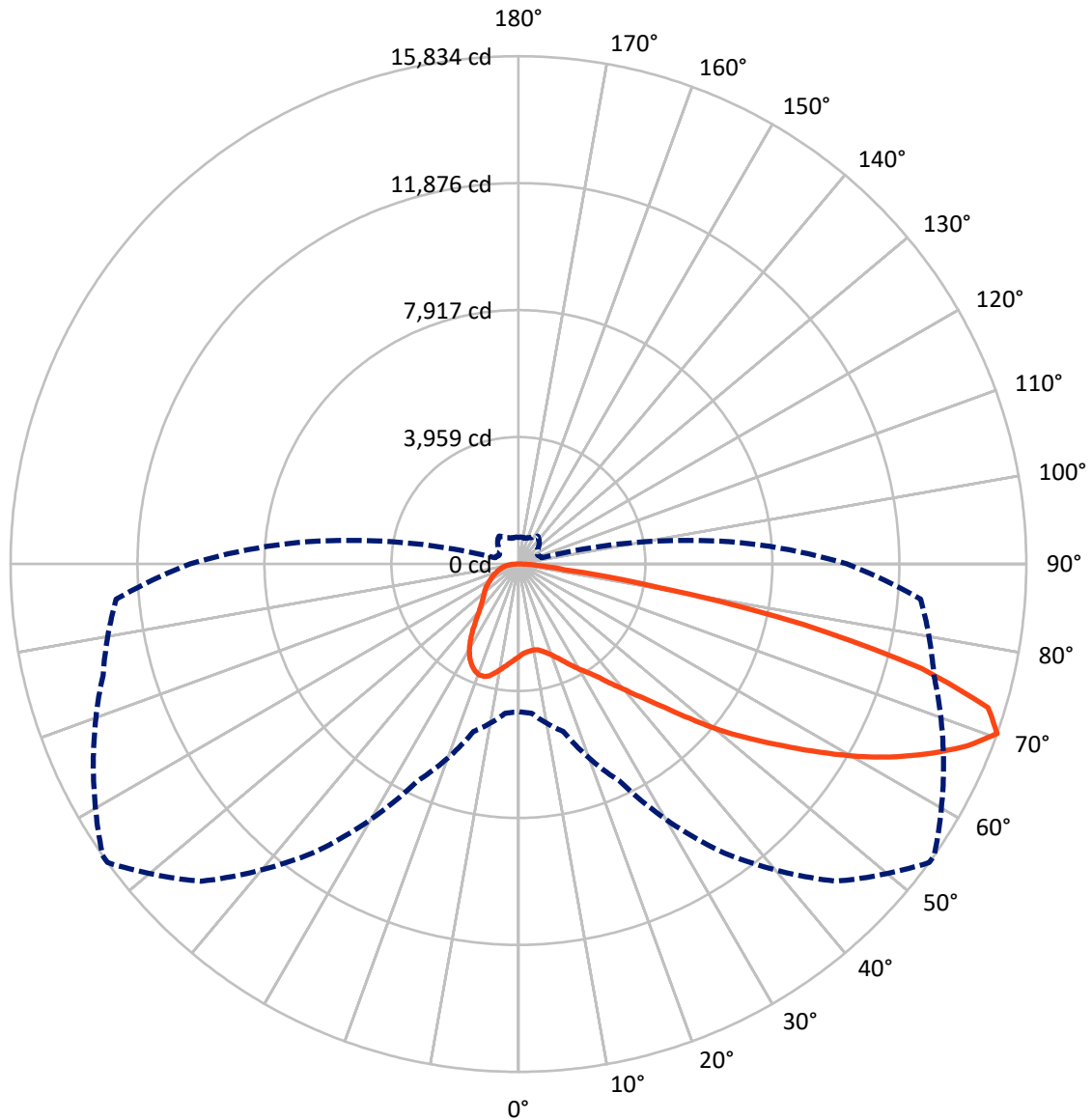
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P265738
CATALOG NUMBER: ARCH-L-AF72-270-D-U-T3-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P265738

CATALOG NUMBER: ARCH-L-AF72-270-D-U-T3-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5852.5	0.0	5852.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	19952.6	0.0	19952.6
	% Fixture	77.3	0.0	77.3
Total	Lumens	25805.1	0.0	25805.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.3	1.1
10°-20°	905.3	3.5
20°-30°	1572.8	6.1
30°-40°	2298.5	8.9
40°-50°	3607.5	14.0
50°-60°	5547.4	21.5
60°-70°	6777.6	26.3
70°-80°	4202.1	16.3
80°-90°	610.5	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°	25805.1	100.0
0°-180°	25805.1	100.0

Coefficient of Utilization



REPORT NUMBER: P265738

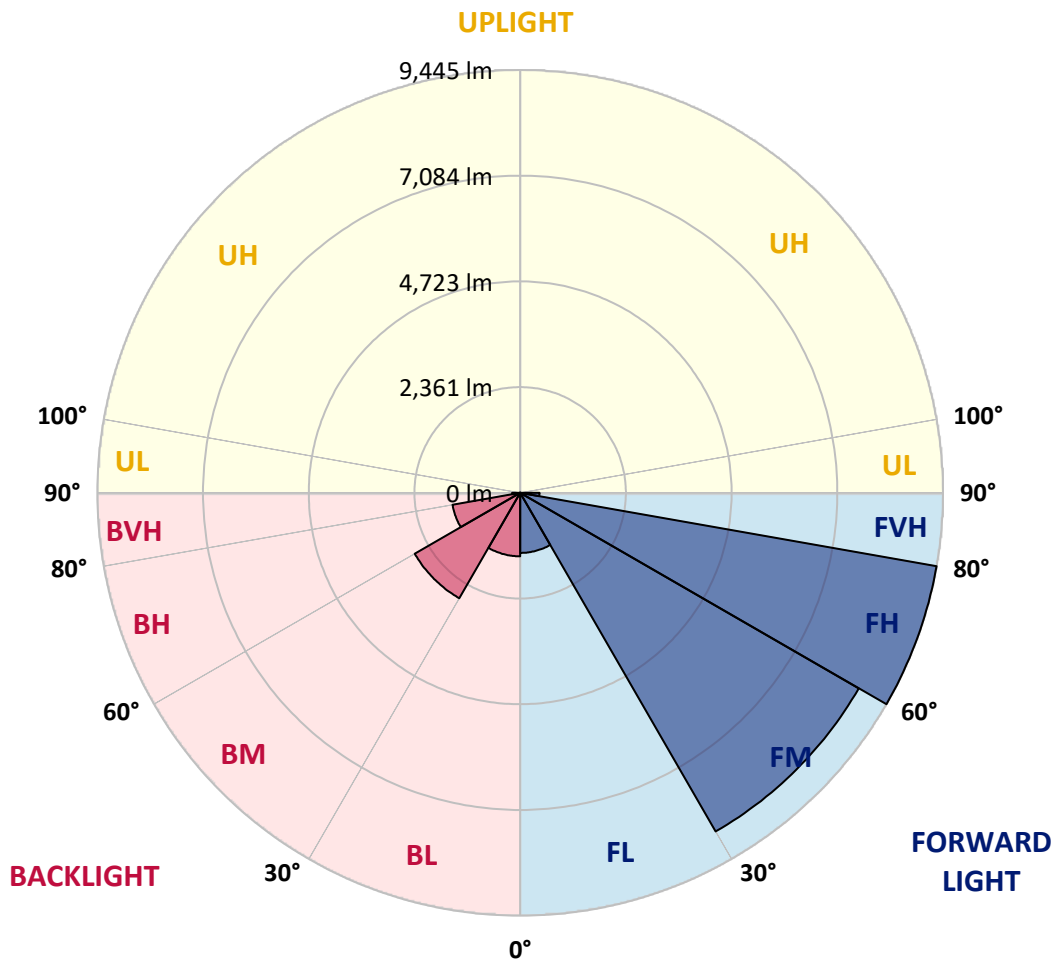
CATALOG NUMBER: ARCH-L-AF72-270-D-U-T3-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1342.6	5.2			
FM	(30°-60°)	8733.8	33.8			
FH	(60°-80°)	9445.1	36.6			G4/12000
FVH	(80°-90°)	431.1	1.7			G3/500
BL	(0°-30°)	1418.9	5.5	B3/2500		
BM	(30°-60°)	2719.6	10.5	B3/5000		
BH	(60°-80°)	1534.7	5.9	B3/2500		G3/2500
BVH	(80°-90°)	179.4	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: P265738

CATALOG NUMBER: ARCH-L-AF72-270-D-U-T3-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1
2.5°	2773.6	2764.3	2764.3	2778.4	2783.0	2797.3	2797.3	2802.1	2816.1	2839.8	2868.2
5°	2688.5	2683.9	2688.5	2707.5	2717.0	2745.3	2754.7	2759.6	2787.8	2825.7	2868.2
7.5°	2603.6	2598.8	2608.3	2636.6	2665.0	2707.5	2731.1	2735.9	2778.4	2830.4	2887.1
10°	2575.3	2570.5	2584.7	2608.3	2636.6	2683.9	2721.7	2726.4	2787.8	2849.2	2929.6
12.5°	2613.0	2608.3	2622.4	2646.0	2674.4	2707.5	2750.0	2754.7	2835.1	2915.4	3000.5
15°	2707.5	2707.5	2712.3	2726.4	2754.7	2783.0	2820.9	2825.7	2910.7	3005.2	3090.3
17.5°	2853.9	2844.6	2844.6	2839.8	2858.8	2872.9	2920.1	2924.9	3014.6	3099.7	3184.8
20°	3033.5	3028.8	3010.0	2986.2	2981.6	2991.0	3038.2	3043.0	3132.7	3203.6	3283.9
22.5°	3250.8	3255.6	3213.1	3161.1	3137.5	3151.7	3194.3	3199.0	3265.1	3326.6	3397.4
25°	3539.1	3524.9	3463.5	3388.0	3340.6	3340.6	3383.1	3383.1	3444.6	3482.4	3529.7
27.5°	3813.1	3784.9	3728.1	3619.5	3543.9	3558.0	3600.5	3600.5	3657.3	3671.5	3695.1
30°	4111.0	4082.5	4011.7	3874.6	3775.3	3766.0	3817.9	3813.1	3888.9	3884.1	3865.1
32.5°	4474.7	4460.5	4342.4	4167.5	4035.2	4002.2	4049.5	4054.2	4101.4	4087.3	4025.8
35°	4985.1	4980.4	4871.7	4564.5	4389.7	4328.3	4356.6	4356.6	4389.7	4351.8	4247.9
37.5°	5627.6	5637.1	5542.6	5089.0	4843.3	4739.4	4744.0	4739.4	4748.8	4706.3	4597.5
40°	6270.3	6294.0	6289.2	5741.1	5429.1	5249.6	5183.5	5174.1	5197.7	5178.8	5074.9
42.5°	7116.2	7172.7	7040.5	6544.3	6194.7	5892.3	5712.7	5689.1	5741.1	5764.8	5665.5
45°	7994.9	7976.1	7768.2	7409.0	7092.5	6704.9	6364.9	6327.0	6364.9	6435.6	6331.8
47.5°	8453.3	8439.1	8387.1	8207.6	8160.4	7716.3	7201.2	7168.0	7097.1	7196.4	7073.6
50°	9209.3	9223.4	9010.9	8991.9	9190.4	8944.8	8146.2	8070.6	7943.1	8023.3	7919.4
52.5°	9757.5	9696.0	9563.7	9729.2	10348.0	10215.7	9034.6	9001.5	8883.2	8864.4	8817.1
55°	9979.5	9979.5	10003.2	10385.9	11269.4	11094.6	9998.5	10031.6	9870.8	9738.5	9800.0
57.5°	10045.7	10074.0	10277.1	10910.4	12351.5	11779.8	11061.5	11108.8	10877.2	10612.7	10806.4
60°	9719.7	9804.7	10291.4	11208.1	12961.1	12507.6	12181.5	12195.6	11860.1	11472.7	11812.9
62.5°	8883.2	8987.3	9856.7	11331.0	12861.9	13254.0	13239.8	13272.9	12814.6	12332.7	12757.9
65°	7858.0	7961.9	8888.0	10986.0	12786.2	13788.1	14208.5	14298.3	13707.6	13060.4	13348.5
67.5°	6350.6	6487.6	7366.6	9823.7	12417.7	14227.4	15115.8	15210.3	14397.6	13438.4	13296.6
70°	4602.2	4668.4	5405.6	7465.8	10915.1	13986.5	15834.1	15829.3	14624.3	13410.0	12587.8
72.5°	2216.1	2268.1	2905.9	4635.3	7805.9	11869.6	15314.2	15404.0	14312.4	12999.0	10967.0
75°	912.0	963.9	1176.6	1956.1	4096.7	7843.8	12980.0	13192.7	12999.0	11666.4	8580.9
77.5°	567.0	586.0	689.9	1011.2	1871.2	3662.0	9086.4	9374.7	10300.9	9346.3	5665.5
80°	425.3	439.5	515.1	708.8	1181.4	1351.4	4512.5	4876.4	6242.0	5363.1	2565.7
82.5°	354.4	359.1	411.1	515.1	803.3	774.9	1445.9	1611.3	2910.7	2046.0	883.7
85°	330.8	340.2	368.6	368.6	510.2	486.7	600.1	628.5	845.8	699.3	307.1
87.5°	170.0	160.6	326.1	288.3	264.6	236.3	255.2	274.1	316.7	335.4	137.0
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: P265738

CATALOG NUMBER: ARCH-L-AF72-270-D-U-T3-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1
2.5°	2877.6	2891.9	2915.4	2939.1	2967.5	3000.5	3019.4	3043.0	3062.0	3052.4	3047.7
5°	2891.9	2915.4	2967.5	3014.6	3071.3	3137.5	3180.0	3227.3	3265.1	3274.5	3260.4
7.5°	2915.4	2957.9	3028.8	3113.9	3189.5	3274.5	3340.6	3406.8	3454.2	3463.5	3463.5
10°	2972.1	3019.4	3113.9	3227.3	3317.0	3406.8	3482.4	3534.4	3577.0	3595.8	3595.8
12.5°	3052.4	3109.2	3222.6	3359.7	3458.8	3543.9	3586.5	3610.0	3629.0	3647.7	3652.6
15°	3146.9	3208.3	3345.4	3491.9	3595.8	3638.3	3638.3	3633.6	3633.6	3643.0	3652.6
17.5°	3241.4	3307.6	3449.3	3605.3	3671.5	3647.7	3614.7	3600.5	3591.2	3586.5	3600.5
20°	3340.6	3406.8	3548.6	3695.1	3676.1	3577.0	3529.7	3496.7	3468.3	3454.2	3472.9
22.5°	3449.3	3510.8	3657.3	3756.5	3614.7	3463.5	3373.8	3321.8	3274.5	3246.1	3265.1
25°	3577.0	3638.3	3780.1	3775.3	3506.1	3293.5	3151.7	3066.6	3014.6	2986.2	2986.2
27.5°	3728.1	3780.1	3917.1	3728.1	3354.9	3066.6	2858.8	2778.4	2764.3	2740.5	2740.5
30°	3884.1	3926.6	4044.7	3619.5	3146.9	2768.9	2542.2	2504.4	2509.1	2485.4	2490.1
32.5°	4044.7	4087.3	4120.3	3458.8	2877.6	2433.5	2282.2	2253.8	2249.1	2230.3	2211.4
35°	4271.5	4333.0	4129.8	3241.4	2551.5	2154.7	2046.0	2017.7	1989.2	1923.1	1923.1
37.5°	4616.5	4682.7	4106.2	2972.1	2216.1	1937.4	1838.1	1800.4	1753.0	1686.8	1663.2
40°	5089.0	5089.0	4054.2	2669.8	1946.7	1762.5	1668.1	1620.7	1568.8	1502.7	1488.4
42.5°	5646.6	5514.2	3973.8	2362.6	1748.3	1644.3	1559.3	1507.4	1445.9	1370.4	1360.8
45°	6298.6	5939.6	3860.5	2088.5	1601.9	1573.6	1521.5	1431.7	1327.8	1247.4	1233.3
47.5°	6931.9	6322.2	3751.9	1894.7	1479.0	1545.2	1502.7	1351.4	1209.7	1096.2	1082.1
50°	7626.4	6662.5	3624.2	1734.2	1384.5	1526.2	1479.0	1233.3	1077.3	996.9	987.5
52.5°	8321.0	7007.4	3487.2	1563.9	1304.1	1488.4	1422.2	1148.3	1072.5	963.9	949.8
55°	9053.4	7409.0	3326.6	1375.0	1209.7	1412.9	1346.6	1143.5	1105.6	963.9	930.9
57.5°	9766.9	7853.3	3066.6	1190.8	1105.6	1299.4	1318.4	1115.2	1034.8	954.4	916.7
60°	10556.1	8325.8	2636.6	1034.8	1016.0	1204.8	1280.5	1053.7	954.4	926.2	907.2
62.5°	11189.2	8751.0	2060.2	926.2	940.3	1129.3	1233.3	1016.0	921.4	897.8	893.0
65°	11463.2	8760.5	1479.0	831.7	864.7	1058.5	1186.0	982.8	893.0	883.7	878.9
67.5°	11174.9	8278.5	1039.5	741.8	784.4	992.3	1124.6	949.8	864.7	869.4	859.9
70°	10244.1	7262.5	760.8	656.8	708.8	921.4	1058.5	907.2	831.7	841.1	826.9
72.5°	8571.4	5660.7	609.5	586.0	647.4	845.8	992.3	859.9	779.6	784.4	756.1
75°	6331.8	3751.9	510.2	524.5	576.4	774.9	907.2	798.6	723.0	704.0	685.1
77.5°	3766.0	1927.9	420.5	458.3	515.1	689.9	812.7	723.0	661.5	628.5	614.4
80°	1554.5	779.6	344.9	387.4	449.0	614.4	718.3	633.1	590.6	557.6	538.7
82.5°	619.0	382.8	274.1	316.7	377.9	534.0	628.5	557.6	515.1	491.5	439.5
85°	236.3	189.1	184.3	222.2	283.5	411.1	519.8	467.7	434.7	373.2	359.1
87.5°	94.5	85.1	85.1	108.7	160.6	259.9	373.2	326.1	340.2	269.3	274.1
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)