

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: P400129

Luminaire Tested: **ARCH-L-PA3-240-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-240-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27622 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

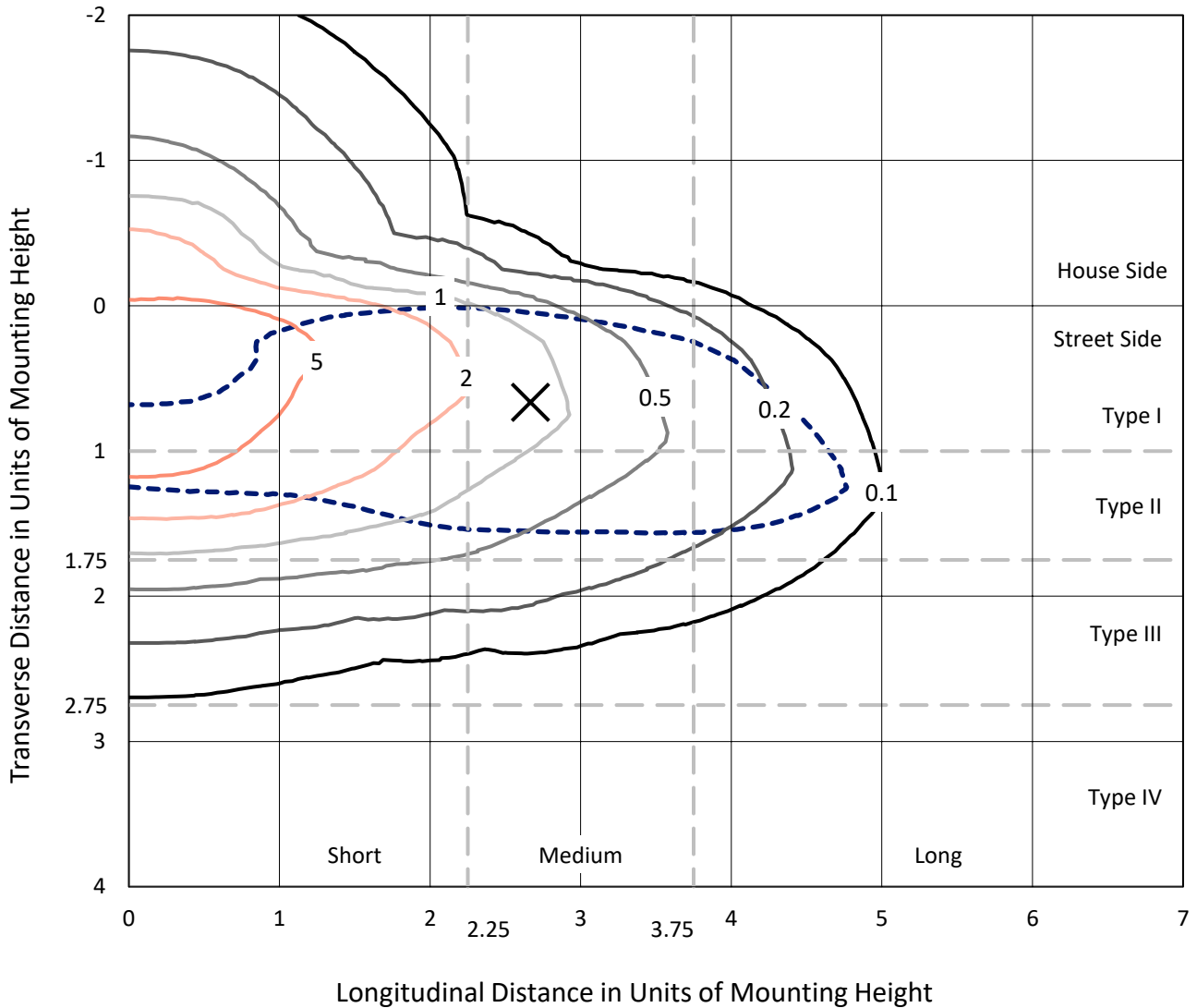
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

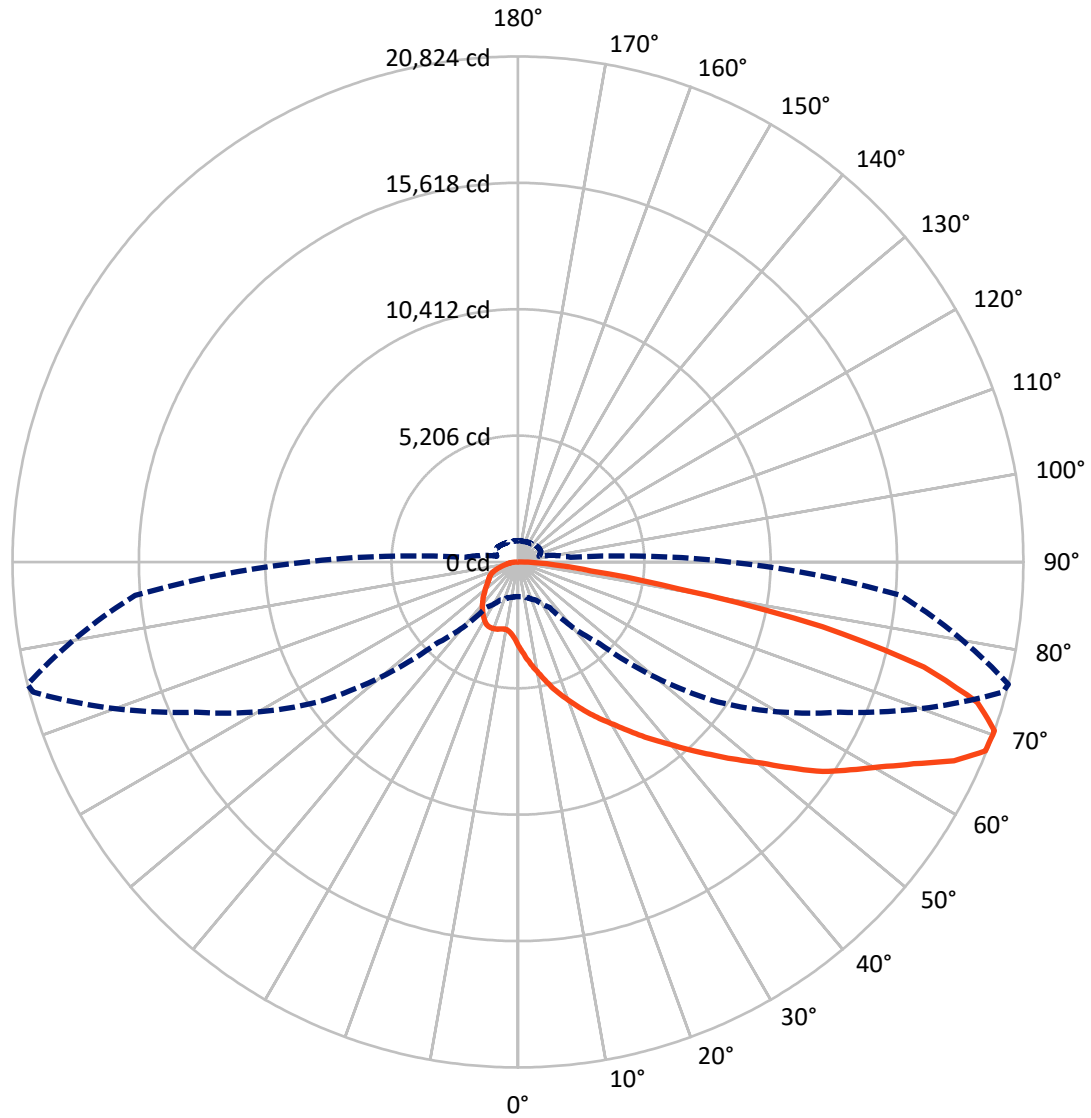
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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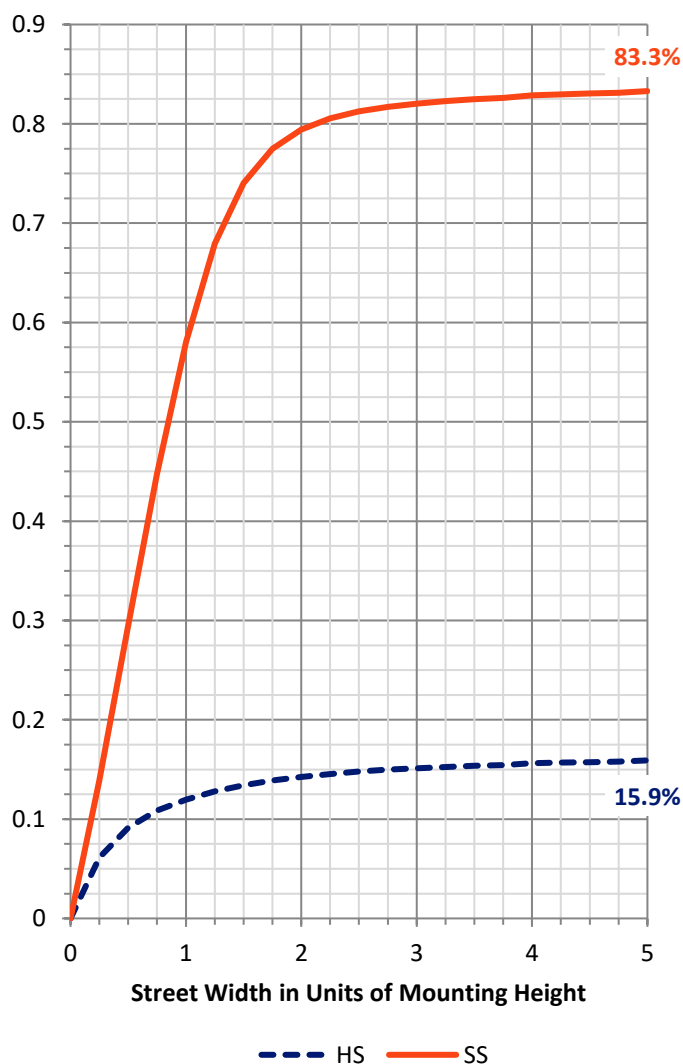
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4509.6	0.0	4509.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	23112.4	0.0	23112.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	27622.0	0.0	27622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.9	1.3
10°-20°	1219.8	4.4
20°-30°	2182.4	7.9
30°-40°	3530.4	12.8
40°-50°	5107.2	18.5
50°-60°	5845.5	21.2
60°-70°	5377.2	19.5
70°-80°	3325.2	12.0
80°-90°	675.2	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°	27622.0	100.0
0°-180°	27622.0	100.0

Coefficient of Utilization



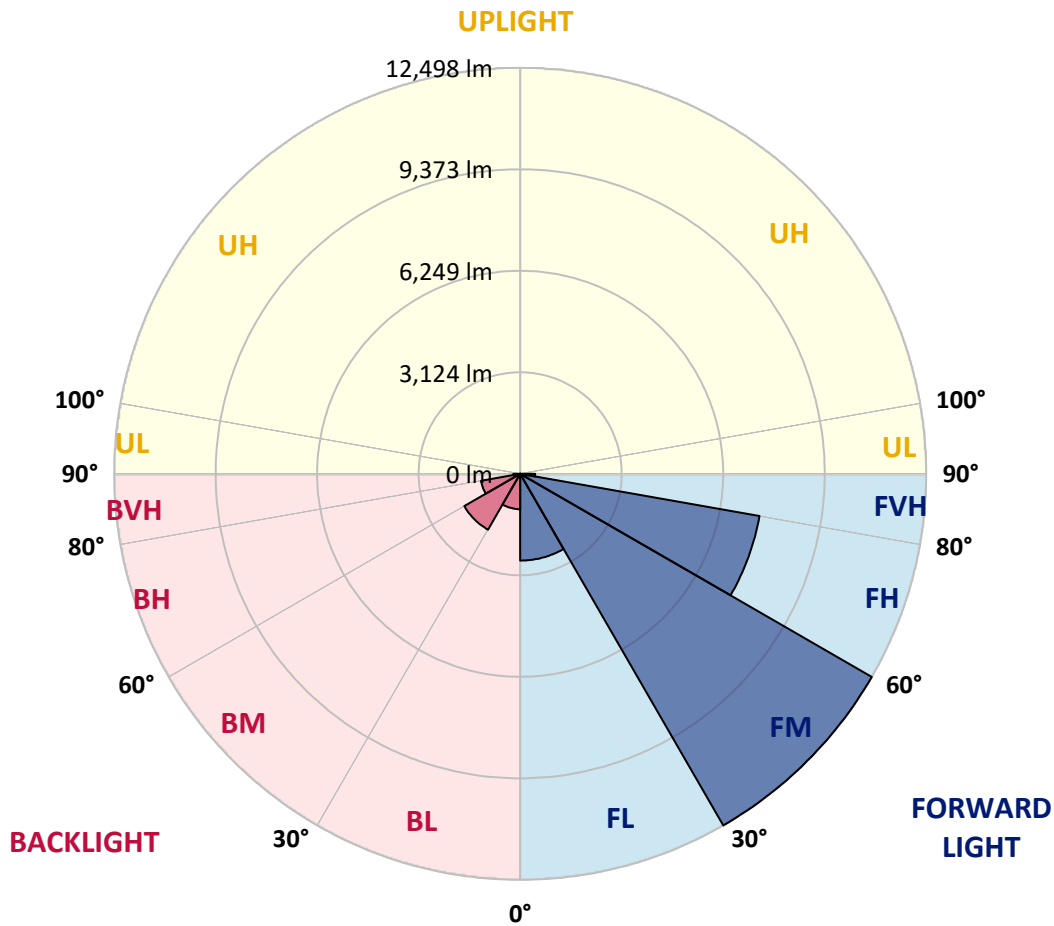
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2672.0	9.7			
FM (30°-60°)	12497.6	45.2			
FH (60°-80°)	7479.3	27.1			G3/7500
FVH (80°-90°)	463.5	1.7			G3/500
BL (0°-30°)	1089.2	3.9	B3/2500		
BM (30°-60°)	1985.5	7.2	B2/2500		
BH (60°-80°)	1223.2	4.4	B3/2500		G3/2500
BVH (80°-90°)	211.7	0.8			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3454.2	3454.2	3454.2	3454.2	3454.2	3454.2	3454.2	3454.2	3454.2	3454.2	3454.2
2.5°	4402.3	4369.6	4365.9	4315.1	4267.9	4140.7	4049.9	3890.1	3730.3	3726.7	3566.8
5°	5088.8	5056.1	5037.9	4976.2	4896.2	4729.2	4565.7	4318.7	4046.3	4028.1	3726.7
7.5°	5553.7	5524.6	5488.3	5462.9	5386.6	5237.7	5037.9	4743.7	4369.6	4333.2	3911.9
10°	5866.0	5847.9	5840.6	5822.5	5775.2	5655.4	5462.9	5150.5	4692.8	4652.9	4108.1
12.5°	6000.4	5993.2	6025.9	6076.7	6094.9	6047.7	5862.4	5568.2	5048.8	5005.2	4344.1
15°	5844.3	5851.5	5935.1	6109.4	6294.7	6396.4	6287.4	6000.4	5452.0	5390.2	4620.2
17.5°	5771.6	5782.5	5840.6	6007.7	6269.2	6585.2	6636.1	6410.9	5840.6	5753.4	4910.8
20°	5898.7	5913.3	5956.9	6087.6	6269.2	6607.0	6872.2	6803.2	6222.0	6131.2	5190.5
22.5°	6222.0	6240.2	6236.5	6320.1	6443.6	6676.0	7002.9	7173.7	6621.6	6519.9	5481.0
25°	6912.1	6897.6	6774.1	6734.2	6766.8	6915.8	7177.3	7529.6	7039.3	6937.6	5786.1
27.5°	7849.2	7831.1	7605.9	7402.5	7220.9	7286.3	7424.3	7816.6	7464.2	7348.0	6076.7
30°	8851.7	8829.9	8568.4	8237.9	7834.7	7740.3	7722.1	8067.2	7892.8	7769.3	6385.5
32.5°	9828.8	9810.6	9531.0	9146.0	8590.2	8306.9	8132.6	8346.9	8379.6	8259.7	6723.3
35°	10718.7	10718.7	10479.0	10021.3	9392.9	8964.3	8677.4	8691.9	8938.9	8800.9	7108.3
37.5°	11510.5	11506.9	11245.4	10795.0	10192.0	9701.7	9345.7	9109.6	9472.9	9353.0	7511.4
40°	12138.9	12113.5	11921.0	11528.7	10922.1	10435.4	10075.8	9600.0	10068.5	9959.6	7940.1
42.5°	12596.6	12582.0	12451.3	12109.8	11532.3	11074.7	10827.7	10217.5	10744.1	10635.2	8441.3
45°	12774.5	12803.6	12803.6	12480.3	12022.7	11605.0	11496.0	10896.7	11474.2	11365.2	8978.9
47.5°	12487.6	12563.9	12720.1	12741.9	12338.7	12055.4	12091.7	11579.5	12226.1	12168.0	9567.3
50°	11590.4	11732.1	12073.5	12691.0	12465.8	12400.4	12600.2	12276.9	13032.4	13014.3	10282.8
52.5°	9276.7	9621.8	10686.0	11793.8	12378.6	12560.2	13105.1	13061.5	14071.3	14100.3	11216.3
55°	7115.5	7246.3	8477.6	10362.7	11844.7	12509.4	13442.9	13827.9	15197.2	15233.6	12073.5
57.5°	5753.4	5840.6	6512.6	8477.6	10627.9	12233.3	13708.0	14274.7	16061.7	16156.2	12836.3
60°	4558.4	4685.6	5136.0	6487.2	8924.4	11568.6	13893.3	14772.3	16991.6	17133.2	13748.0
62.5°	3388.9	3450.6	3875.6	4805.4	7064.7	10373.6	13795.2	15313.5	18132.1	18302.8	14844.9
65°	2411.8	2466.3	2767.8	3417.9	5223.1	8757.3	13224.9	15716.7	19563.2	19737.5	15949.1
67.5°	1805.2	1827.0	1997.7	2390.0	3519.6	6803.2	12069.9	15647.6	20609.3	20765.5	16392.2
70°	1427.5	1434.7	1518.3	1728.9	2288.3	4736.4	10046.7	14634.2	20685.5	20823.6	15832.9
72.5°	1184.1	1180.5	1227.7	1329.4	1594.5	2996.6	7442.4	12752.8	19704.8	19799.3	14271.0
75°	977.1	984.3	1017.0	1075.1	1216.8	1975.9	4823.6	10173.9	17383.8	17282.1	11975.5
77.5°	820.9	817.3	831.8	882.6	984.3	1420.2	2825.9	7351.6	12883.5	12832.7	7860.1
80°	661.1	668.3	690.1	733.7	828.1	1082.4	1670.8	4587.5	6912.1	6726.9	3755.7
82.5°	443.1	512.1	555.7	606.6	715.5	799.1	1060.6	2331.9	3091.0	3043.8	1703.5
85°	210.7	279.7	414.1	472.2	581.2	501.2	719.2	1111.5	1547.3	1529.2	613.8
87.5°	43.6	43.6	221.6	265.2	359.6	214.3	399.5	483.1	748.2	701.0	250.6
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°	3454.2	3454.2	3454.2	3454.2	3454.2	3454.2	3454.2	3454.2	3454.2	3454.2	3454.2
2.5°	3472.4	3374.3	3178.2	3022.0	2862.2	2771.4	2658.8	2604.3	2593.4	2564.4	2586.1
5°	3534.2	3341.7	2971.2	2727.8	2564.4	2484.4	2444.5	2430.0	2426.3	2419.1	2419.1
7.5°	3617.7	3323.5	2840.4	2593.4	2488.1	2462.7	2473.5	2495.3	2499.0	2506.2	2502.6
10°	3719.4	3327.1	2767.8	2560.7	2509.9	2513.5	2549.8	2578.9	2593.4	2604.3	2600.7
12.5°	3861.1	3370.7	2756.9	2582.5	2560.7	2575.2	2611.6	2640.6	2655.2	2658.8	2658.8
15°	4046.3	3461.5	2782.3	2629.7	2611.6	2622.5	2644.3	2655.2	2658.8	2655.2	2655.2
17.5°	4249.7	3570.5	2818.6	2658.8	2629.7	2618.8	2611.6	2600.7	2578.9	2564.4	2564.4
20°	4445.8	3668.6	2836.8	2655.2	2604.3	2560.7	2517.1	2462.7	2426.3	2397.3	2397.3
22.5°	4642.0	3759.4	2836.8	2615.2	2535.3	2451.8	2360.9	2273.8	2219.3	2183.0	2183.0
25°	4849.0	3846.5	2815.0	2546.2	2426.3	2306.5	2183.0	2074.0	2019.5	1983.2	1975.9
27.5°	5023.4	3897.4	2756.9	2448.1	2291.9	2139.4	1997.7	1885.1	1845.2	1812.5	1812.5
30°	5208.6	3930.1	2647.9	2321.0	2139.4	1965.0	1819.7	1728.9	1685.4	1638.1	1634.5
32.5°	5415.7	3951.9	2524.4	2186.6	1983.2	1798.0	1674.5	1601.8	1507.4	1456.5	1449.3
35°	5655.4	3980.9	2393.6	2034.0	1827.0	1659.9	1587.3	1467.4	1376.6	1333.0	1329.4
37.5°	5909.6	4002.7	2252.0	1899.7	1685.4	1569.1	1496.5	1354.8	1274.9	1209.5	1202.3
40°	6178.4	4002.7	2106.7	1768.9	1572.8	1529.2	1391.1	1264.0	1129.6	1096.9	1089.7
42.5°	6476.3	3995.5	1961.4	1641.8	1467.4	1438.4	1329.4	1195.0	1126.0	1096.9	1089.7
45°	6792.3	3970.0	1823.4	1496.5	1358.5	1300.3	1216.8	1180.5	1151.4	1151.4	1151.4
47.5°	7151.9	3948.2	1667.2	1365.7	1278.5	1213.2	1151.4	1129.6	1126.0	1136.9	1147.8
50°	7613.2	3941.0	1536.4	1271.3	1216.8	1140.5	1133.3	1115.1	1118.7	1118.7	1118.7
52.5°	8172.5	3875.6	1412.9	1202.3	1155.0	1064.2	1086.0	1104.2	1111.5	1107.8	1104.2
55°	8583.0	3759.4	1307.6	1155.0	1111.5	1035.2	1064.2	1093.3	1100.6	1089.7	1089.7
57.5°	8953.4	3595.9	1224.1	1118.7	1082.4	1017.0	1049.7	1078.8	1071.5	1067.9	1064.2
60°	9378.4	3439.7	1158.7	1100.6	1053.3	1009.8	1038.8	1057.0	1046.1	1038.8	1035.2
62.5°	9839.7	3287.2	1111.5	1100.6	1031.6	1006.1	1027.9	1035.2	1013.4	1006.1	1006.1
65°	10054.0	3047.4	1060.6	1100.6	1020.7	998.9	1006.1	998.9	977.1	977.1	973.4
67.5°	9701.7	2651.5	995.2	1086.0	1035.2	988.0	973.4	962.5	937.1	937.1	929.9
70°	8728.2	2179.3	900.8	1038.8	1038.8	984.3	929.9	904.4	875.4	886.3	871.7
72.5°	7457.0	1728.9	784.6	958.9	1017.0	980.7	882.6	842.7	817.3	828.1	806.4
75°	6040.4	1340.3	646.5	831.8	962.5	962.5	835.4	780.9	751.9	751.9	726.4
77.5°	3850.2	991.6	526.7	690.1	864.5	937.1	795.5	711.9	668.3	657.4	639.3
80°	1906.9	697.4	432.2	548.5	737.3	879.0	766.4	632.0	570.3	548.5	515.8
82.5°	1013.4	483.1	345.1	428.6	588.4	791.8	730.1	544.8	468.6	435.9	399.5
85°	454.0	297.8	276.0	326.9	446.8	650.2	657.4	446.8	359.6	428.6	316.0
87.5°	167.1	134.4	134.4	167.1	257.9	272.4	464.9	286.9	228.8	156.2	123.5
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)