

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: P236852

Luminaire Tested: **ARCH-L-AF72-190-D-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-190-D-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23991.3 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 189
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

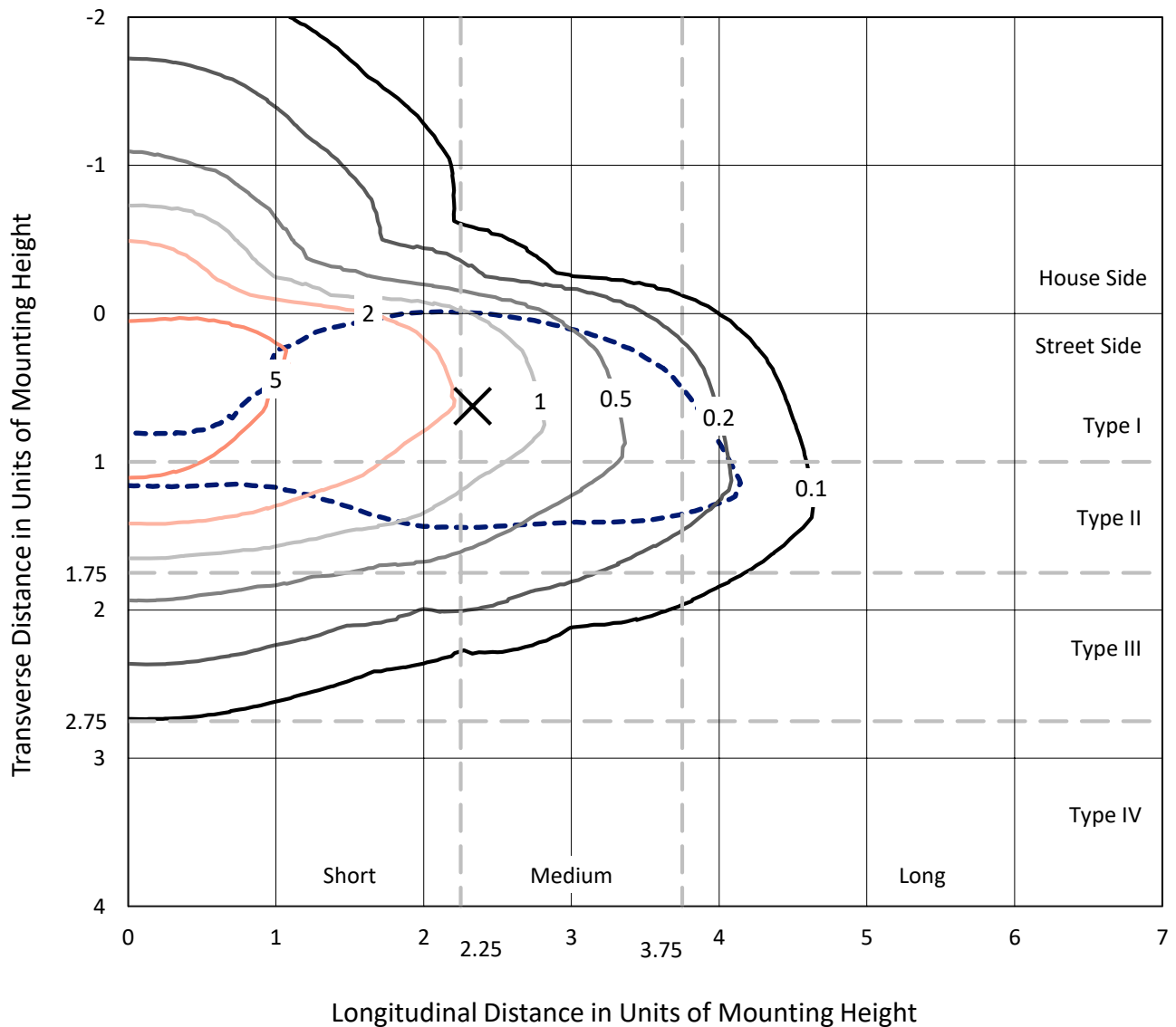


REPORT NUMBER: P236852

CATALOG NUMBER: ARCH-L-AF72-190-D-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

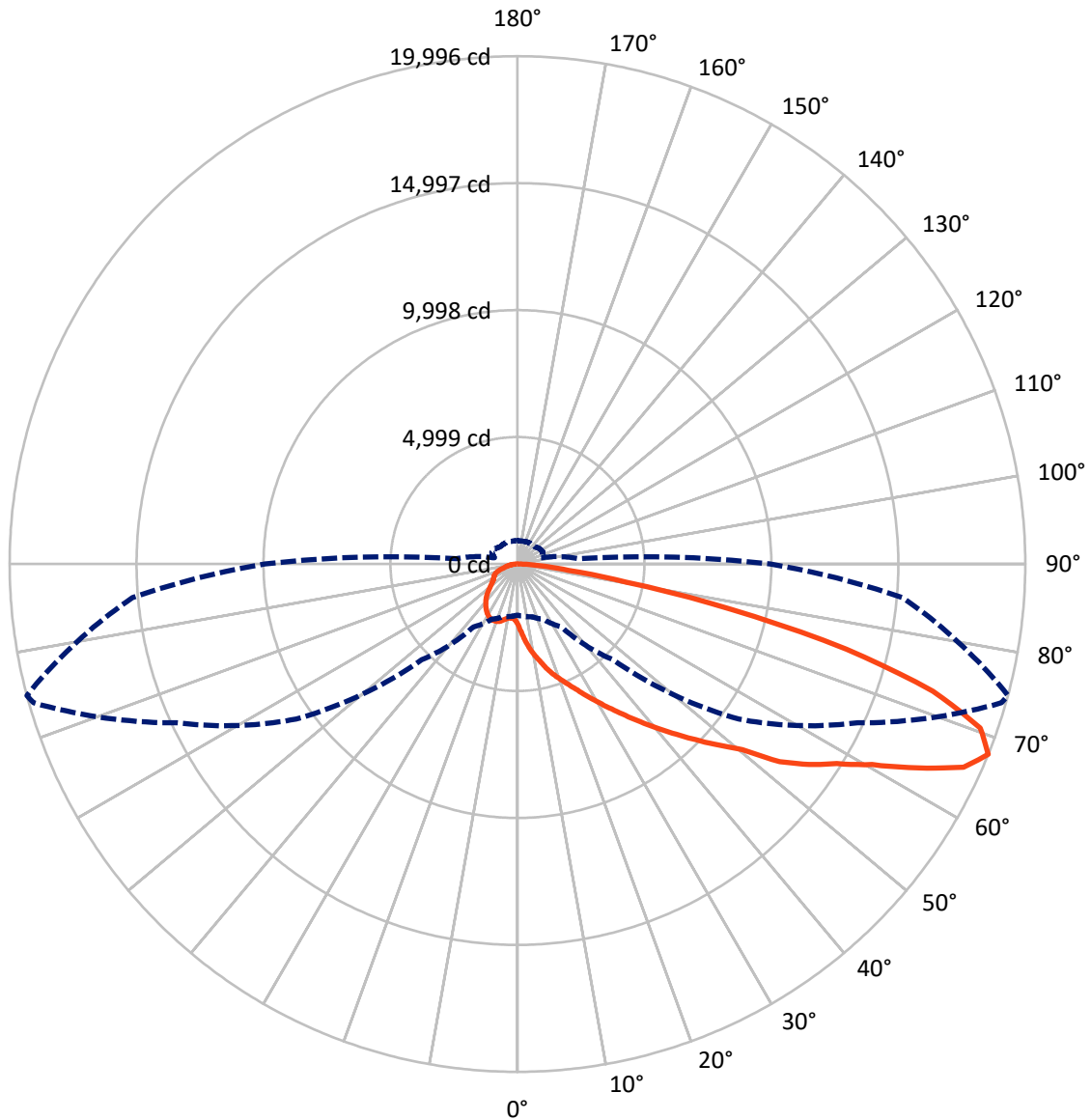


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P236852

CATALOG NUMBER: ARCH-L-AF72-190-D-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4096.8	0.0	4096.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	19894.4	0.0	19894.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	23991.3	0.0	23991.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	1.2
10°-20°	1009.3	4.2
20°-30°	1840.9	7.7
30°-40°	3021.6	12.6
40°-50°	4369.7	18.2
50°-60°	5149.7	21.5
60°-70°	5004.3	20.9
70°-80°	2781.7	11.6
80°-90°	534.9	2.2
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°	23991.3	100.0
0°-180°	23991.3	100.0



REPORT NUMBER: P236852

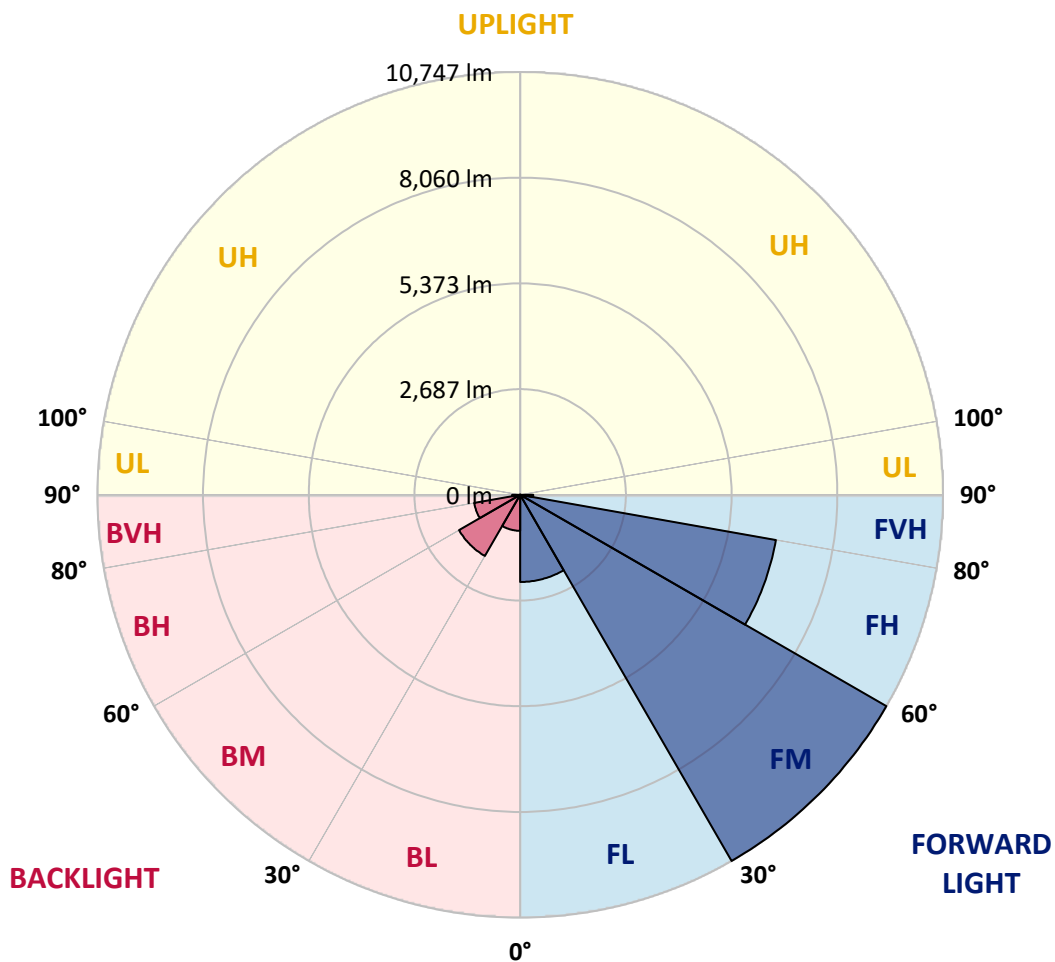
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2215.0	9.2			
FM	(30°-60°)	10746.8	44.8			
FH	(60°-80°)	6599.7	27.5			G3/7500
FVH	(80°-90°)	332.9	1.4			G3/500
BL	(0°-30°)	914.4	3.8	B2/1000		
BM	(30°-60°)	1794.2	7.5	B2/2500		
BH	(60°-80°)	1186.2	4.9	B3/2500		G3/2500
BVH	(80°-90°)	202.0	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





REPORT NUMBER: P236852

CATALOG NUMBER: ARCH-L-AF72-190-D-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3
2.5°	3370.3	3380.3	3360.3	3315.2	3250.0	3129.6	3024.3	2838.7	2673.2	2653.1	2477.6
5°	3962.2	3972.2	3947.2	3891.9	3821.7	3691.3	3545.9	3305.2	3039.3	2989.2	2618.0
7.5°	4368.4	4373.4	4343.3	4288.2	4233.0	4102.6	3957.2	3686.3	3360.3	3320.2	2798.6
10°	4714.5	4724.5	4684.4	4649.3	4589.1	4458.7	4308.3	4022.3	3686.3	3631.2	2984.2
12.5°	5035.5	5045.5	5020.4	4990.4	4970.2	4849.9	4684.4	4343.3	3982.2	3922.0	3204.8
15°	5251.1	5261.1	5266.2	5306.3	5331.4	5246.1	5080.6	4709.5	4303.2	4248.0	3465.7
17.5°	5191.0	5216.0	5291.2	5436.7	5592.2	5597.2	5461.7	5070.6	4619.1	4559.0	3731.4
20°	5015.4	5035.5	5125.7	5346.5	5652.3	5827.9	5817.8	5436.7	4915.1	4849.9	3977.2
22.5°	5160.9	5186.0	5186.0	5321.3	5622.2	5948.3	6078.7	5797.8	5211.0	5150.9	4222.9
25°	5782.7	5797.8	5692.5	5637.3	5747.7	6048.6	6294.3	6189.0	5572.1	5501.9	4488.8
27.5°	6650.4	6625.3	6494.9	6274.3	6153.9	6234.2	6484.9	6560.2	5988.4	5903.1	4764.6
30°	7513.1	7498.0	7347.5	7051.6	6780.8	6610.3	6695.5	6891.1	6439.8	6339.4	5030.5
32.5°	8320.6	8295.5	8130.0	7783.9	7478.0	7162.0	6996.5	7192.1	6921.3	6805.9	5326.4
35°	9062.8	8997.7	8832.2	8471.1	8155.1	7854.1	7447.9	7478.0	7442.9	7322.5	5652.3
37.5°	9664.6	9614.5	9434.0	9097.9	8761.9	8476.1	8049.7	7804.0	8004.6	7889.2	6028.6
40°	10196.3	10141.1	9955.6	9619.5	9308.5	9037.8	8701.7	8200.2	8636.5	8506.1	6449.8
42.5°	10597.6	10557.5	10407.0	10076.0	9775.0	9529.3	9363.8	8701.7	9293.5	9168.2	6911.3
45°	10813.2	10773.1	10692.8	10427.0	10151.2	9960.6	9975.6	9298.5	9980.6	9875.4	7457.9
47.5°	10547.3	10577.5	10647.7	10597.6	10427.0	10336.7	10522.3	9915.5	10748.0	10647.7	8049.7
50°	9835.2	9865.3	10146.1	10492.2	10552.4	10662.7	11013.8	10627.6	11560.5	11480.3	8781.9
52.5°	8084.8	8250.3	9027.7	9855.2	10422.0	10878.4	11560.5	11685.9	12929.7	12929.7	10076.0
55°	6108.8	6254.2	7141.9	8586.3	9915.5	10898.4	11961.8	12403.1	13917.8	13937.8	10753.1
57.5°	4950.2	5040.5	5476.8	6956.4	8852.2	10647.7	12438.2	13020.0	14740.2	14830.5	11625.7
60°	4017.3	4067.5	4353.4	5381.5	7382.6	9970.6	12779.2	13902.7	15913.8	16039.3	12739.1
62.5°	3230.0	3280.1	3470.7	4087.5	5792.8	8701.7	12719.1	14820.5	17478.6	17684.3	14198.6
65°	2577.9	2633.1	2758.5	3139.6	4293.2	7126.9	12102.1	15292.0	19098.6	19299.3	15166.6
67.5°	2011.2	2061.3	2146.6	2397.4	3024.3	5331.4	10642.7	14795.4	19825.9	19996.4	15216.7
70°	1519.7	1544.8	1614.9	1775.4	2161.6	3540.8	8330.6	13130.3	19173.9	19329.4	14213.6
72.5°	1178.6	1173.6	1213.7	1293.9	1509.7	2437.5	5522.0	10677.8	16952.0	17112.5	12127.3
75°	963.0	957.9	983.1	1008.1	1093.3	1635.0	3260.0	8039.7	13682.0	13376.1	9097.9
77.5°	812.5	807.5	832.6	837.6	872.7	1128.4	1855.7	5291.2	9128.0	8601.4	5125.7
80°	687.1	682.1	712.2	722.2	747.3	827.6	1068.3	2863.8	4584.0	4343.3	2447.5
82.5°	516.6	536.6	591.8	616.9	647.0	611.9	662.1	1263.9	2126.5	2031.3	1063.3
85°	250.7	295.9	446.4	496.5	531.6	386.2	451.4	596.8	957.9	912.8	431.3
87.5°	85.2	75.2	265.9	316.0	346.1	175.5	250.7	331.0	396.2	361.1	135.4
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: P236852

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3
2.5°	2402.4	2327.1	2216.8	2131.5	2076.4	2031.3	2011.2	2006.1	1996.1	1991.1	1991.1
5°	2452.5	2317.1	2146.6	2056.3	2031.3	2011.2	2021.2	2026.3	2026.3	2026.3	2026.3
7.5°	2527.7	2337.1	2131.5	2071.4	2066.4	2066.4	2096.4	2111.5	2121.5	2121.5	2121.5
10°	2628.1	2372.3	2156.6	2106.5	2121.5	2131.5	2166.6	2186.8	2196.8	2201.8	2206.8
12.5°	2763.5	2447.5	2206.8	2166.6	2186.8	2191.8	2216.8	2226.9	2236.9	2241.9	2241.9
15°	2944.1	2557.9	2287.0	2236.9	2241.9	2236.9	2236.9	2226.9	2221.8	2221.8	2231.9
17.5°	3129.6	2663.2	2357.3	2287.0	2267.0	2226.9	2196.8	2171.6	2156.6	2146.6	2151.6
20°	3315.2	2758.5	2397.4	2297.0	2241.9	2176.6	2121.5	2086.4	2066.4	2046.3	2056.3
22.5°	3500.7	2848.7	2412.4	2267.0	2186.8	2091.4	2031.3	1976.0	1930.9	1900.8	1905.9
25°	3706.4	2949.1	2412.4	2231.9	2111.5	2011.2	1935.9	1845.7	1780.4	1755.4	1765.4
27.5°	3912.0	3034.3	2387.4	2166.6	2026.3	1925.9	1815.5	1710.3	1670.2	1655.0	1660.1
30°	4117.7	3099.5	2332.1	2086.4	1935.9	1825.6	1680.2	1609.9	1559.8	1519.7	1524.7
32.5°	4323.3	3144.7	2256.9	1986.1	1840.7	1700.2	1579.8	1499.6	1409.3	1359.2	1364.2
35°	4559.0	3179.7	2166.6	1885.8	1735.3	1589.9	1499.6	1369.2	1273.9	1233.8	1223.8
37.5°	4804.8	3204.8	2071.4	1775.4	1630.0	1509.7	1419.3	1258.8	1168.6	1113.4	1108.4
40°	5070.6	3214.8	1956.0	1660.1	1529.7	1459.4	1314.1	1193.7	1038.2	1003.1	1003.1
42.5°	5386.6	3209.8	1840.7	1544.8	1419.3	1344.2	1238.8	1183.7	1048.2	1013.1	993.1
45°	5747.7	3209.8	1715.3	1409.3	1309.1	1198.7	1153.6	1118.4	1028.2	1043.2	1053.2
47.5°	6158.9	3199.8	1564.8	1298.9	1218.7	1123.4	1098.3	1023.2	988.1	998.1	1008.1
50°	6725.7	3214.8	1429.4	1208.7	1153.6	1073.3	1043.2	1003.1	988.1	993.1	988.1
52.5°	7513.1	3164.7	1298.9	1153.6	1103.4	998.1	998.1	993.1	998.1	993.1	993.1
55°	7944.4	3054.4	1203.7	1123.4	1068.3	963.0	983.1	993.1	1003.1	998.1	998.1
57.5°	8556.3	2979.1	1128.4	1103.4	1048.2	952.9	973.0	993.1	998.1	993.1	993.1
60°	9278.5	2929.0	1078.3	1108.4	1033.2	952.9	978.0	993.1	988.1	983.1	983.1
62.5°	10116.1	2909.0	1043.2	1123.4	1018.1	957.9	978.0	993.1	973.0	968.0	968.0
65°	10432.1	2728.4	998.1	1133.4	1028.2	957.9	973.0	978.0	952.9	947.9	942.9
67.5°	9945.5	2417.4	932.8	1113.4	1058.2	957.9	957.9	952.9	922.8	917.8	907.8
70°	8857.2	2006.1	832.6	1048.2	1078.3	963.0	937.8	912.8	882.7	882.7	862.7
72.5°	7252.3	1579.8	702.2	932.8	1063.3	978.0	897.7	862.7	827.6	827.6	807.5
75°	5226.1	1178.6	561.7	777.3	998.1	973.0	847.6	802.5	762.3	757.3	732.2
77.5°	2979.1	827.6	456.4	606.8	887.7	947.9	802.5	732.2	687.1	672.1	657.0
80°	1529.7	556.7	371.1	476.5	737.2	877.7	767.3	652.0	601.8	576.7	551.7
82.5°	727.2	371.1	285.9	351.1	556.7	767.3	722.2	561.7	506.6	476.5	446.4
85°	326.0	220.7	190.6	225.7	396.2	596.8	637.0	461.5	396.2	496.5	366.1
87.5°	105.4	100.4	100.4	105.4	190.6	260.8	466.5	341.1	316.0	260.8	220.7
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)