

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: P236859

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236859
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-AF72-260-D-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29778.1 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 - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 261
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

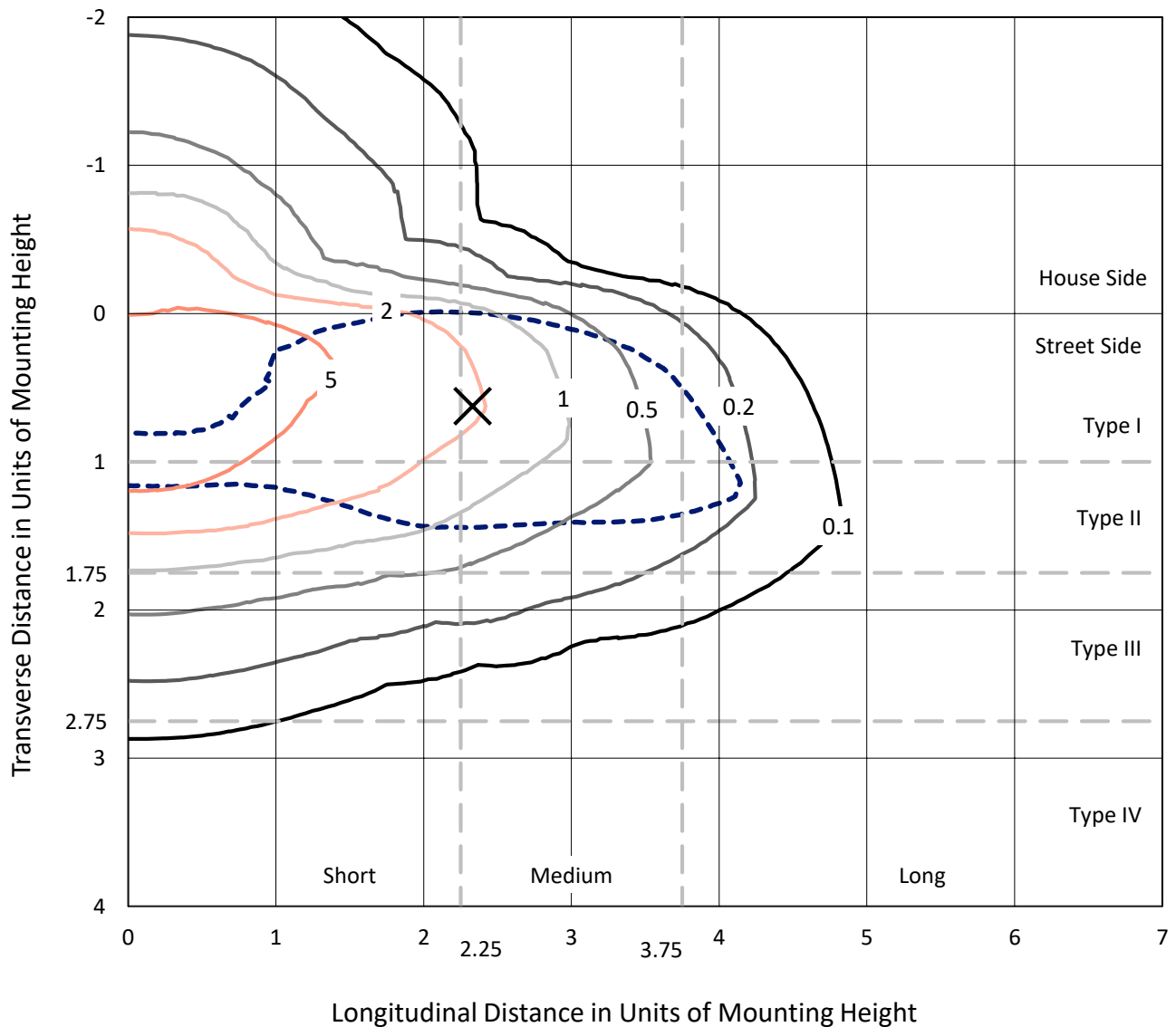


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

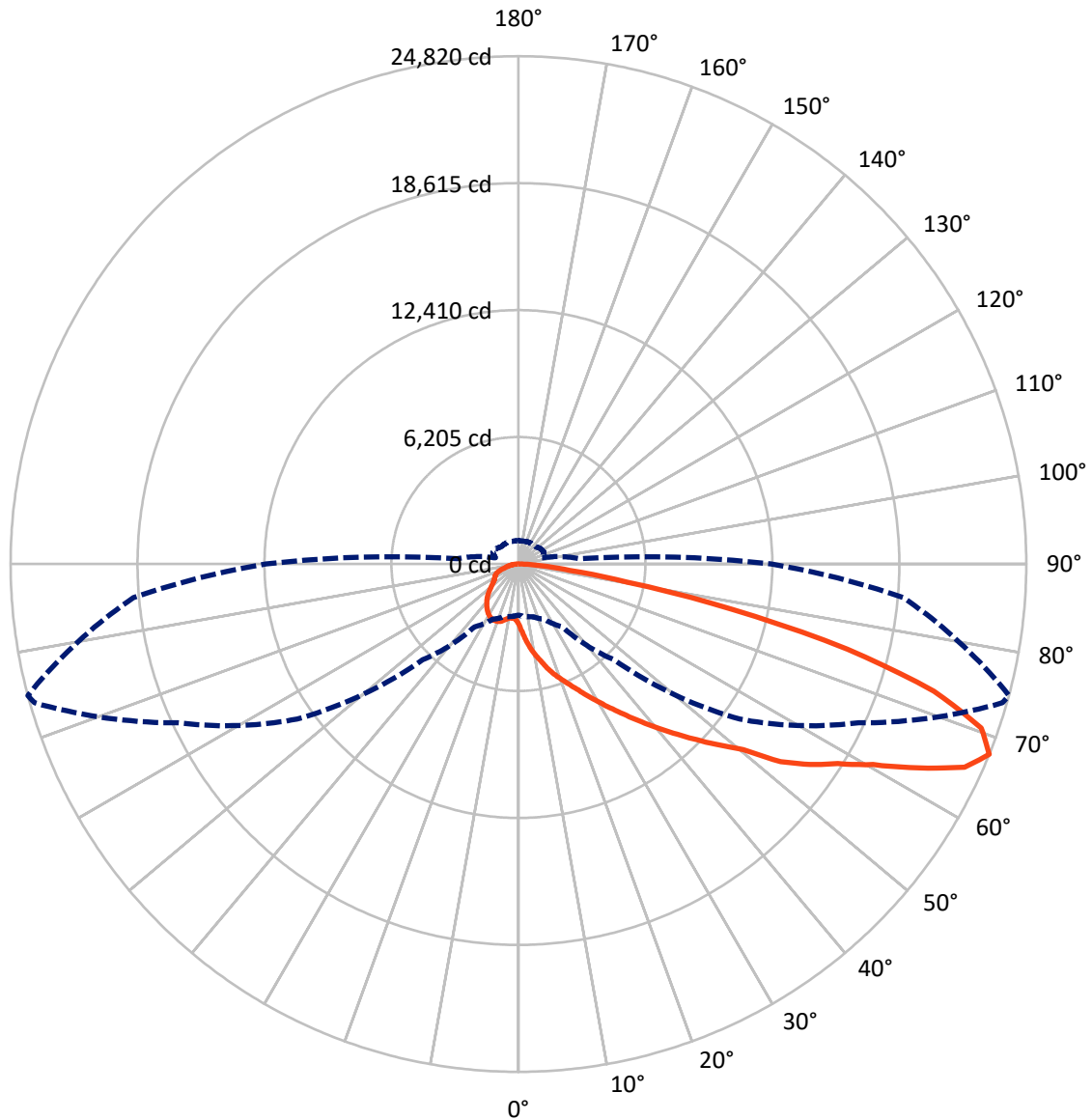


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Medium - Semi-Cutoff

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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	5085.0	0.0	5085.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	24693.1	0.0	24693.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	29778.1	0.0	29778.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.6	1.2
10°-20°	1252.7	4.2
20°-30°	2284.9	7.7
30°-40°	3750.5	12.6
40°-50°	5423.7	18.2
50°-60°	6391.8	21.5
60°-70°	6211.3	20.9
70°-80°	3452.6	11.6
80°-90°	663.9	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°	29778.1	100.0
0°-180°	29778.1	100.0



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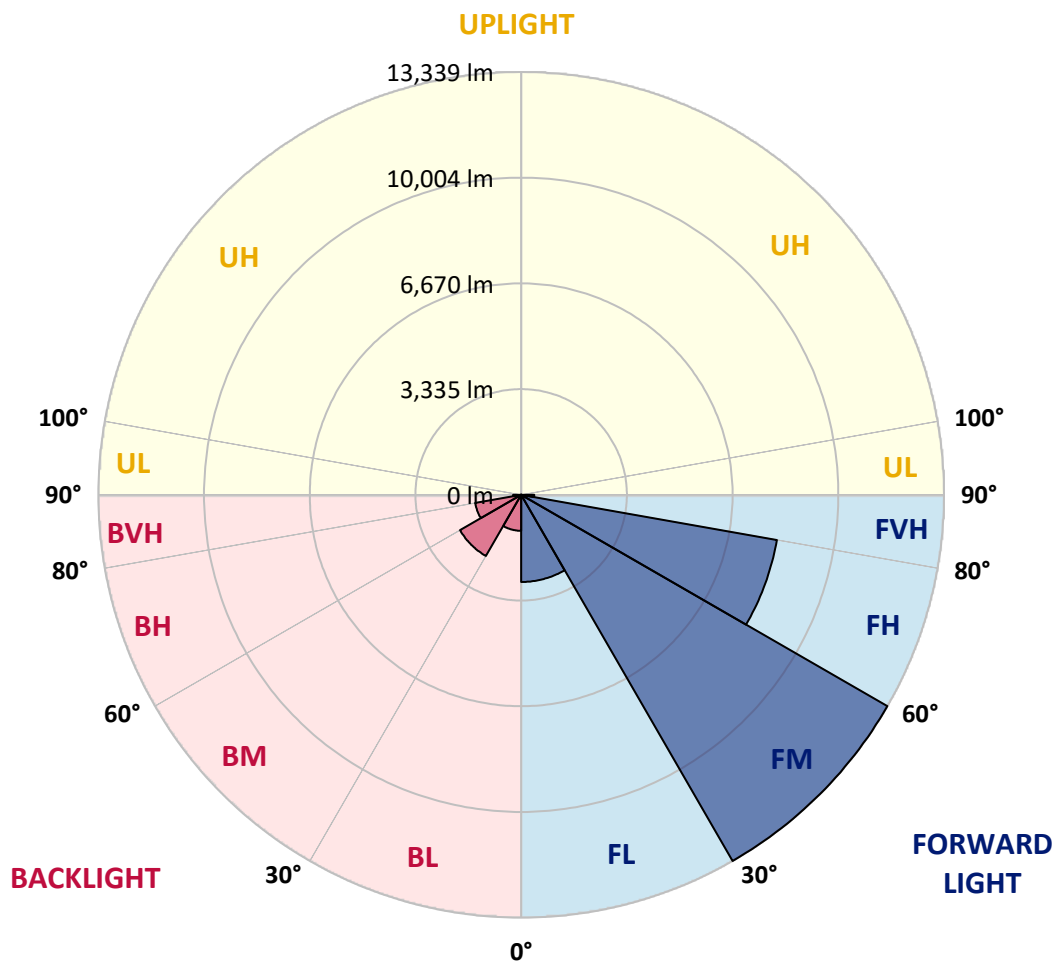
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2749.3	9.2			
FM (30°-60°)	13339.0	44.8			
FH (60°-80°)	8191.6	27.5			G4/12000
FVH (80°-90°)	413.2	1.4			G3/500
BL (0°-30°)	1135.0	3.8	B3/2500		
BM (30°-60°)	2227.0	7.5	B2/2500		
BH (60°-80°)	1472.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	250.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2950.7	2950.7	2950.7	2950.7	2950.7	2950.7	2950.7	2950.7	2950.7	2950.7	2950.7
2.5°	4183.3	4195.7	4170.9	4114.8	4033.9	3884.5	3753.7	3523.5	3318.0	3293.1	3075.2
5°	4917.8	4930.3	4899.2	4830.7	4743.5	4581.7	4401.1	4102.3	3772.4	3710.1	3249.5
7.5°	5422.0	5428.3	5391.0	5322.5	5254.0	5092.1	4911.6	4575.5	4170.9	4121.1	3473.6
10°	5851.6	5864.1	5814.2	5770.7	5696.0	5534.2	5347.4	4992.6	4575.5	4507.0	3704.0
12.5°	6250.0	6262.5	6231.4	6194.0	6169.1	6019.8	5814.2	5391.0	4942.8	4868.0	3977.8
15°	6517.7	6530.2	6536.3	6586.2	6617.4	6511.5	6306.1	5845.4	5341.1	5272.7	4301.6
17.5°	6443.1	6474.2	6567.5	6748.1	6941.0	6947.3	6779.2	6293.6	5733.3	5658.7	4631.5
20°	6225.2	6250.0	6362.1	6636.0	7015.7	7233.6	7221.2	6748.1	6100.7	6019.8	4936.6
22.5°	6405.7	6436.8	6436.8	6604.9	6978.4	7383.0	7544.9	7196.3	6467.9	6393.2	5241.6
25°	7177.6	7196.3	7065.5	6997.1	7134.1	7507.5	7812.6	7681.8	6916.2	6829.0	5571.5
27.5°	8254.5	8223.4	8061.6	7787.6	7638.3	7737.8	8049.1	8142.5	7432.9	7327.0	5913.9
30°	9325.2	9306.6	9119.8	8752.6	8416.4	8204.8	8310.6	8553.3	7993.1	7868.5	6243.8
32.5°	10327.5	10296.4	10091.0	9661.5	9281.6	8889.5	8684.0	8926.9	8590.7	8447.5	6611.1
35°	11248.9	11167.9	10962.5	10514.3	10122.1	9748.6	9244.3	9281.6	9238.1	9088.7	7015.7
37.5°	11995.8	11933.6	11709.5	11292.5	10875.3	10520.5	9991.4	9686.3	9935.3	9792.2	7482.6
40°	12655.7	12587.2	12356.9	11939.8	11553.8	11217.7	10800.6	10178.2	10719.7	10557.9	8005.5
42.5°	13153.7	13103.9	12917.2	12506.3	12132.8	11827.8	11622.4	10800.6	11535.2	11379.6	8578.3
45°	13421.4	13371.6	13272.0	12942.1	12599.7	12363.2	12381.8	11541.4	12388.0	12257.3	9256.8
47.5°	13091.5	13128.9	13216.0	13153.7	12942.1	12830.1	13060.3	12307.1	13340.5	13216.0	9991.4
50°	12207.5	12244.8	12593.4	13023.0	13097.7	13234.6	13670.4	13191.1	14348.9	14249.4	10900.3
52.5°	10034.9	10240.4	11205.3	12232.4	12935.8	13502.3	14348.9	14504.6	16048.5	16048.5	12506.3
55°	7582.2	7762.8	8864.6	10657.4	12307.1	13527.2	14847.0	15394.8	17274.8	17299.6	13346.7
57.5°	6144.3	6256.3	6797.8	8634.3	10987.4	13216.0	15438.4	16160.5	18295.7	18407.8	14429.8
60°	4986.4	5048.6	5403.4	6679.6	9163.4	12375.6	15861.7	17256.1	19752.4	19908.1	15811.9
62.5°	4008.9	4071.2	4307.7	5073.5	7190.0	10800.6	15787.0	18395.3	21694.6	21949.9	17623.4
65°	3199.7	3268.2	3423.8	3896.9	5328.8	8846.0	15021.3	18980.4	23705.4	23954.3	18824.9
67.5°	2496.3	2558.5	2664.4	2975.7	3753.7	6617.4	13209.8	18364.2	24608.0	24819.7	18887.0
70°	1886.2	1917.3	2004.5	2203.7	2683.0	4394.9	10340.0	16297.4	23798.7	23991.7	17642.0
72.5°	1462.9	1456.7	1506.5	1606.1	1873.7	3025.4	6853.9	13253.4	21041.0	21240.1	15052.4
75°	1195.2	1189.0	1220.2	1251.3	1357.0	2029.4	4046.4	9978.9	16982.2	16602.5	11292.5
77.5°	1008.4	1002.3	1033.4	1039.6	1083.2	1400.6	2303.3	6567.5	11329.8	10676.1	6362.1
80°	852.8	846.6	883.9	896.4	927.5	1027.1	1325.9	3554.5	5689.8	5391.0	3037.9
82.5°	641.2	666.0	734.6	765.7	803.0	759.4	821.7	1568.7	2639.4	2521.2	1319.7
85°	311.3	367.2	554.0	616.3	659.9	479.4	560.3	740.8	1189.0	1133.0	535.4
87.5°	105.9	93.4	329.9	392.2	429.5	217.9	311.3	410.8	491.8	448.3	168.1
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°	2950.7	2950.7	2950.7	2950.7	2950.7	2950.7	2950.7	2950.7	2950.7	2950.7	2950.7
2.5°	2981.8	2888.5	2751.5	2645.7	2577.2	2521.2	2496.3	2490.1	2477.6	2471.3	2471.3
5°	3044.1	2876.0	2664.4	2552.3	2521.2	2496.3	2508.7	2514.9	2514.9	2514.9	2514.9
7.5°	3137.5	2900.9	2645.7	2571.0	2564.7	2564.7	2602.1	2620.8	2633.3	2633.3	2633.3
10°	3262.0	2944.5	2676.9	2614.6	2633.3	2645.7	2689.2	2714.2	2726.6	2732.8	2739.1
12.5°	3430.1	3037.9	2739.1	2689.2	2714.2	2720.4	2751.5	2764.0	2776.4	2782.6	2782.6
15°	3654.2	3174.8	2838.7	2776.4	2782.6	2776.4	2776.4	2764.0	2757.8	2757.8	2770.2
17.5°	3884.5	3305.6	2925.8	2838.7	2813.7	2764.0	2726.6	2695.5	2676.9	2664.4	2670.6
20°	4114.8	3423.8	2975.7	2851.1	2782.6	2701.7	2633.3	2589.7	2564.7	2539.9	2552.3
22.5°	4345.2	3535.9	2994.3	2813.7	2714.2	2595.8	2521.2	2452.7	2396.7	2359.3	2365.6
25°	4600.4	3660.4	2994.3	2770.2	2620.8	2496.3	2402.9	2290.9	2209.9	2178.8	2191.3
27.5°	4855.6	3766.2	2963.2	2689.2	2514.9	2390.4	2253.5	2122.7	2073.0	2054.3	2060.5
30°	5110.9	3847.1	2894.6	2589.7	2402.9	2265.9	2085.4	1998.2	1936.0	1886.2	1892.5
32.5°	5366.1	3903.2	2801.4	2465.1	2284.7	2110.3	1960.9	1861.4	1749.2	1687.1	1693.2
35°	5658.7	3946.7	2689.2	2340.6	2153.9	1973.4	1861.4	1699.4	1581.2	1531.4	1519.0
37.5°	5963.7	3977.8	2571.0	2203.7	2023.2	1873.7	1761.7	1562.6	1450.4	1382.0	1375.8
40°	6293.6	3990.3	2427.8	2060.5	1898.7	1811.5	1631.0	1481.5	1288.6	1245.0	1245.0
42.5°	6685.8	3984.1	2284.7	1917.3	1761.7	1668.3	1537.6	1469.2	1301.1	1257.5	1232.6
45°	7134.1	3984.1	2129.0	1749.2	1624.8	1487.8	1431.8	1388.2	1276.1	1294.9	1307.2
47.5°	7644.5	3971.6	1942.3	1612.3	1512.7	1394.4	1363.3	1269.9	1226.3	1238.8	1251.3
50°	8347.9	3990.3	1774.2	1500.3	1431.8	1332.2	1294.9	1245.0	1226.3	1232.6	1226.3
52.5°	9325.2	3928.0	1612.3	1431.8	1369.5	1238.8	1238.8	1232.6	1238.8	1232.6	1232.6
55°	9860.6	3791.2	1494.0	1394.4	1325.9	1195.2	1220.2	1232.6	1245.0	1238.8	1238.8
57.5°	10620.1	3697.8	1400.6	1369.5	1301.1	1182.7	1207.7	1232.6	1238.8	1232.6	1232.6
60°	11516.5	3635.5	1338.4	1375.8	1282.4	1182.7	1213.9	1232.6	1226.3	1220.2	1220.2
62.5°	12556.1	3610.6	1294.9	1394.4	1263.8	1189.0	1213.9	1232.6	1207.7	1201.5	1201.5
65°	12948.3	3386.5	1238.8	1406.9	1276.1	1189.0	1207.7	1213.9	1182.7	1176.6	1170.4
67.5°	12344.5	3000.5	1157.9	1382.0	1313.5	1189.0	1189.0	1182.7	1145.4	1139.2	1126.8
70°	10993.7	2490.1	1033.4	1301.1	1338.4	1195.2	1164.1	1133.0	1095.6	1095.6	1070.7
72.5°	9001.6	1960.9	871.6	1157.9	1319.7	1213.9	1114.3	1070.7	1027.1	1027.1	1002.3
75°	6486.6	1462.9	697.2	964.8	1238.8	1207.7	1052.0	996.0	946.2	940.0	908.9
77.5°	3697.8	1027.1	566.5	753.2	1101.8	1176.6	996.0	908.9	852.8	834.2	815.5
80°	1898.7	691.0	460.6	591.4	915.1	1089.4	952.5	809.3	747.1	715.9	684.8
82.5°	902.7	460.6	354.9	435.8	691.0	952.5	896.4	697.2	628.7	591.4	554.0
85°	404.7	273.9	236.5	280.1	491.8	740.8	790.6	572.8	491.8	616.3	454.4
87.5°	130.7	124.5	124.5	130.7	236.5	323.7	578.9	423.3	392.2	323.7	273.9
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)