

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: P265671

Luminaire Tested: **ARCH-L-AF72-200-D-U-T2R-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265671  
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-AF72-200-D-U-T2R-7027  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21362.9 lumens  
Efficiency: N/A  
Efficacy: 106.3 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): 201  
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

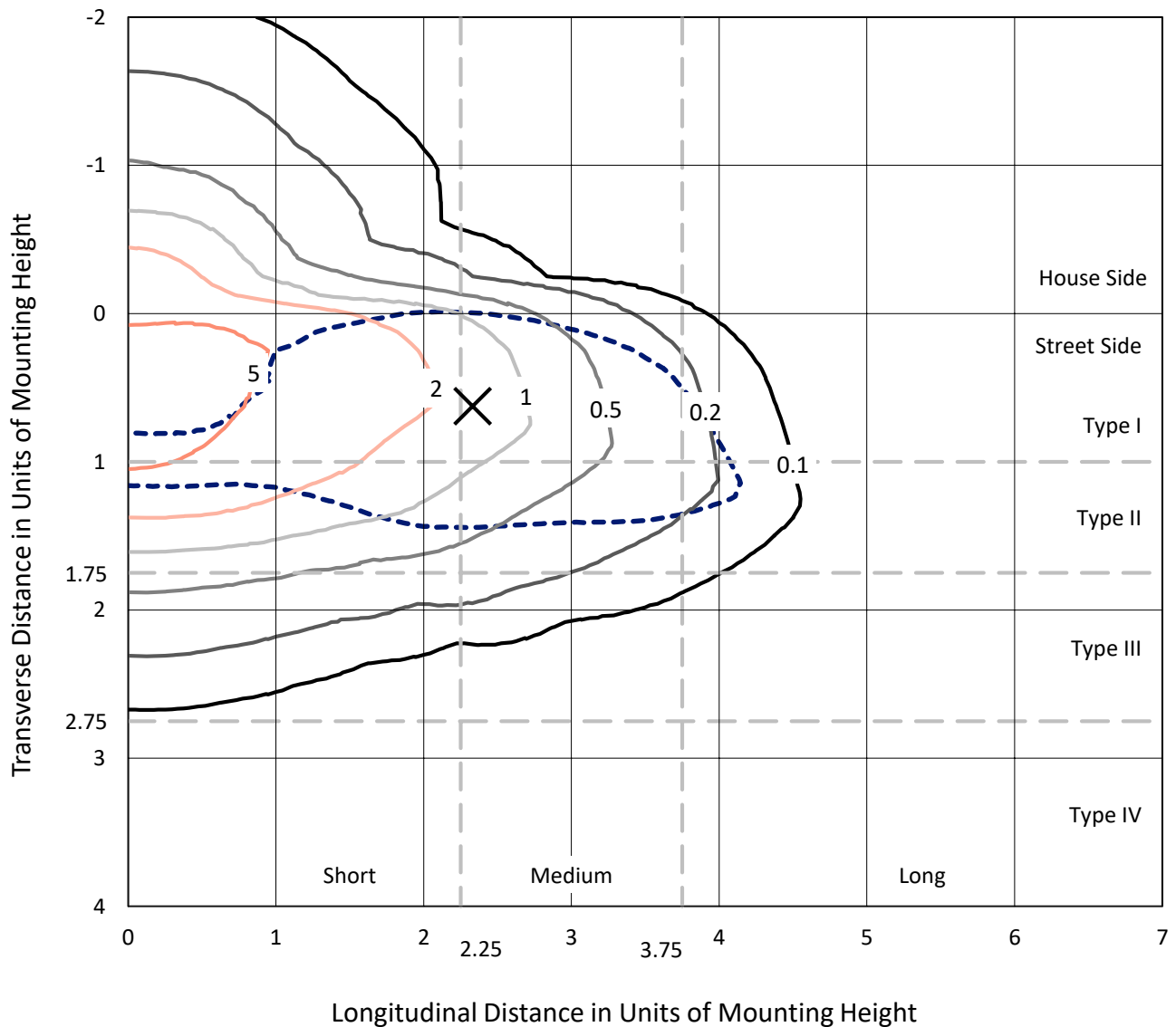


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### Iso-Footcandle Lines of Horizontal Illumination

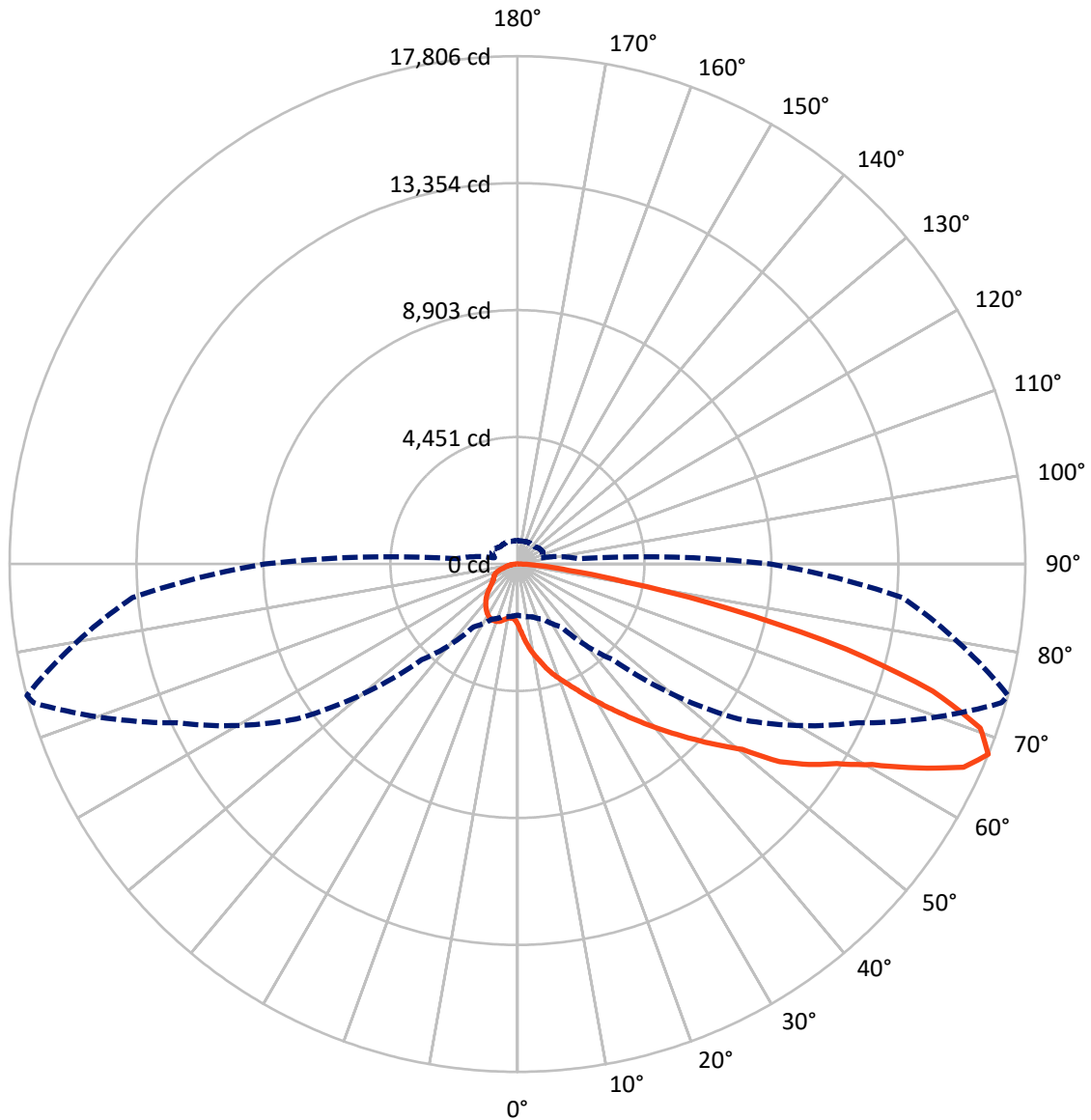
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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
<b>House Side</b>	Lumens	3648.0	0.0	3648.0
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	17714.9	0.0	17714.9
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	21362.9	0.0	21362.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.7	1.2
10°-20°	898.7	4.2
20°-30°	1639.2	7.7
30°-40°	2690.6	12.6
40°-50°	3891.0	18.2
50°-60°	4585.5	21.5
60°-70°	4456.0	20.9
70°-80°	2476.9	11.6
80°-90°	476.3	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°	21362.9	100.0
0°-180°	21362.9	100.0

**Coefficient of Utilization**



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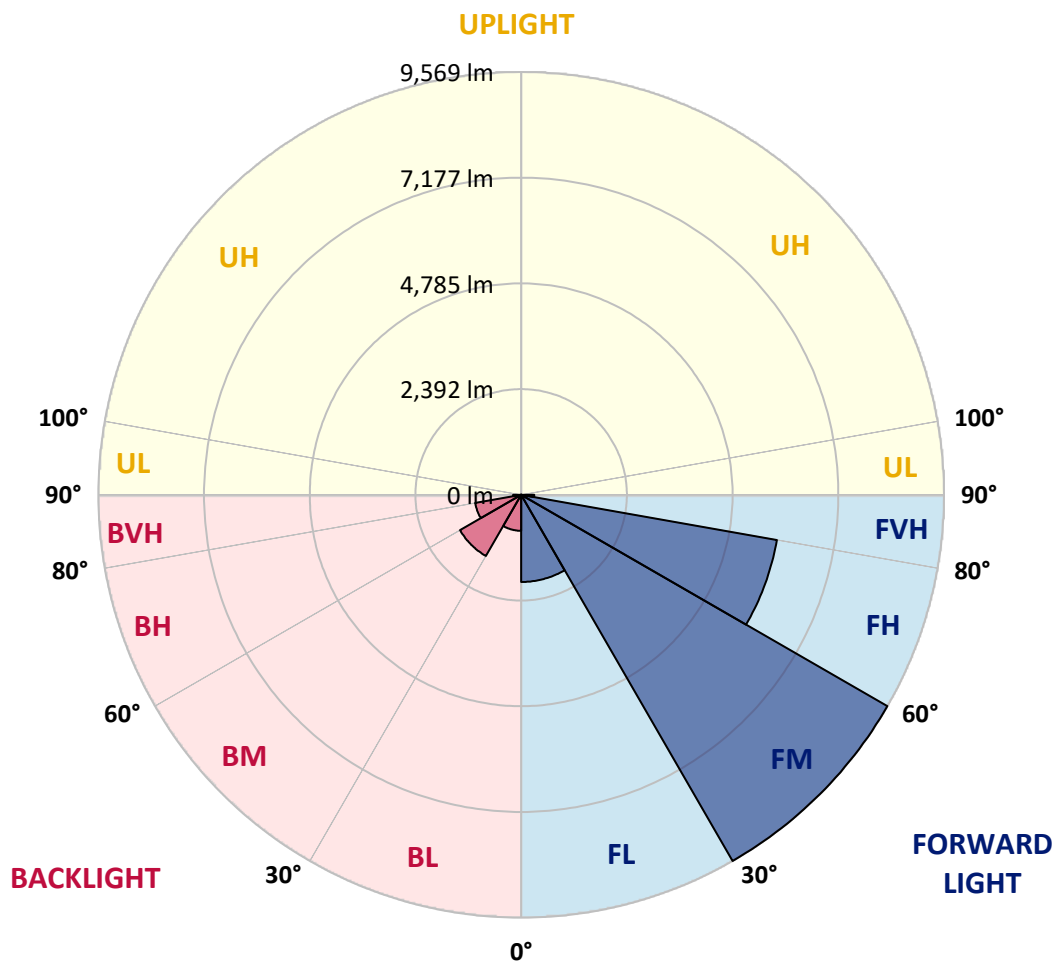
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1972.4	9.2			
FM	(30°-60°)	9569.5	44.8			
FH	(60°-80°)	5876.7	27.5			G3/7500
FVH	(80°-90°)	296.4	1.4			G3/500
BL	(0°-30°)	814.2	3.8	B2/1000		
BM	(30°-60°)	1597.6	7.5	B2/2500		
BH	(60°-80°)	1056.2	4.9	B3/2500		G3/2500
BVH	(80°-90°)	179.9	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°	74°	75°	85°
0°	2116.9	2116.9	2116.9	2116.9	2116.9	2116.9	2116.9	2116.9	2116.9	2116.9	2116.9
2.5°	3001.1	3010.0	2992.2	2952.0	2893.9	2786.7	2692.9	2527.7	2380.4	2362.5	2206.1
5°	3528.2	3537.0	3514.7	3465.7	3403.0	3287.0	3157.5	2943.0	2706.4	2661.7	2331.2
7.5°	3889.8	3894.3	3867.6	3818.3	3769.3	3653.1	3523.6	3282.4	2992.2	2956.4	2492.0
10°	4198.0	4206.9	4171.2	4139.8	4086.3	3970.1	3836.2	3581.7	3282.4	3233.3	2657.2
12.5°	4483.8	4492.8	4470.4	4443.6	4425.8	4318.5	4171.2	3867.6	3546.0	3492.4	2853.7
15°	4675.9	4684.8	4689.2	4724.9	4747.4	4671.4	4524.0	4193.5	3831.8	3782.7	3085.9
17.5°	4622.3	4644.5	4711.6	4841.1	4979.6	4983.9	4863.5	4515.2	4113.1	4059.5	3322.7
20°	4466.0	4483.8	4564.2	4760.7	5033.2	5189.4	5180.4	4841.1	4376.6	4318.5	3541.5
22.5°	4595.5	4617.7	4617.7	4738.4	5006.3	5296.5	5412.6	5162.6	4640.1	4586.6	3760.3
25°	5149.3	5162.6	5068.9	5019.6	5118.0	5385.9	5604.7	5511.0	4961.7	4899.1	3997.0
27.5°	5921.8	5899.4	5783.4	5586.9	5479.8	5551.2	5774.5	5841.5	5332.2	5256.4	4242.6
30°	6689.9	6676.7	6542.6	6279.2	6038.0	5886.1	5962.1	6136.2	5734.3	5644.9	4479.4
32.5°	7409.0	7386.7	7239.4	6931.1	6658.7	6377.3	6229.9	6404.1	6163.0	6060.2	4742.8
35°	8070.0	8012.0	7864.5	7543.0	7261.5	6993.7	6631.9	6658.7	6627.4	6520.3	5033.2
37.5°	8605.9	8561.1	8400.4	8101.3	7802.0	7547.4	7167.8	6949.0	7127.6	7024.9	5368.0
40°	9079.3	9030.1	8865.0	8565.7	8288.8	8047.6	7748.4	7301.9	7690.4	7574.1	5743.3
42.5°	9436.5	9400.9	9266.8	8972.1	8704.0	8485.3	8337.9	7748.4	8275.4	8163.7	6154.1
45°	9628.6	9592.8	9521.3	9284.7	9039.0	8869.3	8882.8	8279.9	8887.2	8793.5	6640.9
47.5°	9391.9	9418.6	9481.3	9436.5	9284.7	9204.4	9369.5	8829.3	9570.5	9481.3	7167.8
50°	8757.8	8784.5	9034.7	9342.7	9396.4	9494.5	9807.2	9463.4	10293.9	10222.5	7819.8
52.5°	7199.0	7346.5	8038.8	8775.6	9280.2	9686.7	10293.9	10405.6	11513.1	11513.1	8972.1
55°	5439.4	5569.0	6359.6	7645.7	8829.3	9704.5	10651.3	11044.3	12392.9	12410.9	9574.9
57.5°	4408.0	4488.3	4876.8	6194.3	7882.4	9481.3	11075.6	11593.5	13125.5	13205.9	10352.1
60°	3577.2	3621.8	3876.5	4792.0	6573.8	8878.3	11379.2	12379.6	14170.5	14282.2	11343.4
62.5°	2876.1	2920.7	3090.3	3639.8	5158.2	7748.4	11325.7	13196.9	15563.9	15746.8	12643.0
65°	2295.4	2344.7	2456.2	2795.6	3822.8	6346.0	10776.2	13616.7	17006.4	17184.9	13504.9
67.5°	1790.9	1835.4	1911.5	2134.7	2692.9	4747.4	9476.7	13174.5	17653.9	17805.8	13549.7
70°	1353.1	1375.6	1438.0	1580.9	1924.8	3153.0	7417.9	11691.8	17073.2	17211.7	12656.5
72.5°	1049.5	1045.0	1080.8	1152.3	1344.3	2170.5	4917.1	9508.0	15094.8	15237.8	10798.6
75°	857.4	853.0	875.3	897.6	973.6	1456.0	2902.9	7159.0	12183.2	11910.6	8101.3
77.5°	723.5	719.1	741.3	745.9	777.0	1004.8	1652.4	4711.6	8128.0	7659.0	4564.2
80°	611.8	607.3	634.2	643.0	665.5	736.9	951.2	2550.1	4081.9	3867.6	2179.4
82.5°	460.0	477.9	526.9	549.4	576.2	544.8	589.5	1125.4	1893.5	1808.6	946.8
85°	223.3	263.6	397.5	442.1	473.3	344.0	401.9	531.4	853.0	812.7	384.0
87.5°	75.9	67.1	236.8	281.3	308.2	156.3	223.3	294.7	352.9	321.6	120.6
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°	2116.9	2116.9	2116.9	2116.9	2116.9	2116.9	2116.9	2116.9	2116.9	2116.9	2116.9
2.5°	2139.1	2072.2	1973.9	1897.9	1848.9	1808.6	1790.9	1786.4	1777.4	1773.0	1773.0
5°	2183.9	2063.2	1911.5	1831.0	1808.6	1790.9	1799.8	1804.2	1804.2	1804.2	1804.2
7.5°	2250.9	2081.2	1897.9	1844.4	1840.0	1840.0	1866.8	1880.2	1889.0	1889.0	1889.0
10°	2340.2	2112.4	1920.3	1875.8	1889.0	1897.9	1929.3	1947.2	1956.1	1960.6	1965.0
12.5°	2460.7	2179.4	1965.0	1929.3	1947.2	1951.6	1973.9	1982.9	1991.8	1996.3	1996.3
15°	2621.6	2277.7	2036.5	1991.8	1996.3	1991.8	1991.8	1982.9	1978.3	1978.3	1987.3
17.5°	2786.7	2371.4	2099.0	2036.5	2018.6	1982.9	1956.1	1933.7	1920.3	1911.5	1915.8
20°	2952.0	2456.2	2134.7	2045.4	1996.3	1938.3	1889.0	1857.9	1840.0	1822.1	1831.0
22.5°	3117.2	2536.6	2148.0	2018.6	1947.2	1862.2	1808.6	1759.6	1719.4	1692.5	1697.1
25°	3300.4	2625.9	2148.0	1987.3	1880.2	1790.9	1723.8	1643.4	1585.4	1563.1	1572.0
27.5°	3483.4	2701.9	2125.7	1929.3	1804.2	1715.0	1616.7	1522.8	1487.1	1473.8	1478.3
30°	3666.5	2760.0	2076.6	1857.9	1723.8	1625.7	1496.0	1433.5	1388.9	1353.1	1357.7
32.5°	3849.6	2800.1	2009.7	1768.6	1639.0	1514.0	1406.7	1335.3	1254.9	1210.2	1214.8
35°	4059.5	2831.4	1929.3	1679.2	1545.3	1415.6	1335.3	1219.2	1134.4	1098.6	1089.7
37.5°	4278.4	2853.7	1844.4	1580.9	1451.4	1344.3	1263.8	1120.9	1040.5	991.4	987.0
40°	4515.2	2862.7	1741.8	1478.3	1362.1	1299.6	1170.1	1062.9	924.4	893.2	893.2
42.5°	4796.4	2858.1	1639.0	1375.6	1263.8	1196.9	1103.1	1053.9	933.3	902.1	884.2
45°	5118.0	2858.1	1527.4	1254.9	1165.6	1067.4	1027.1	996.0	915.6	928.8	937.8
47.5°	5484.2	2849.2	1393.5	1156.7	1085.2	1000.4	978.1	911.1	879.8	888.8	897.6
50°	5988.8	2862.7	1272.8	1076.3	1027.1	955.6	928.8	893.2	879.8	884.2	879.8
52.5°	6689.9	2818.1	1156.7	1027.1	982.4	888.8	888.8	884.2	888.8	884.2	884.2
55°	7074.1	2719.8	1071.8	1000.4	951.2	857.4	875.3	884.2	893.2	888.8	888.8
57.5°	7619.0	2652.8	1004.8	982.4	933.3	848.4	866.3	884.2	888.8	884.2	884.2
60°	8262.0	2608.0	960.2	987.0	920.0	848.4	870.8	884.2	879.8	875.3	875.3
62.5°	9007.8	2590.3	928.8	1000.4	906.6	853.0	870.8	884.2	866.3	862.0	862.0
65°	9289.2	2429.5	888.8	1009.2	915.6	853.0	866.3	870.8	848.4	844.0	839.6
67.5°	8856.0	2152.6	830.7	991.4	942.3	853.0	853.0	848.4	821.7	817.3	808.4
70°	7886.8	1786.4	741.3	933.3	960.2	857.4	835.2	812.7	785.9	785.9	768.1
72.5°	6457.7	1406.7	625.2	830.7	946.8	870.8	799.4	768.1	736.9	736.9	719.1
75°	4653.5	1049.5	500.1	692.2	888.8	866.3	754.8	714.5	678.8	674.4	652.0
77.5°	2652.8	736.9	406.5	540.4	790.5	844.0	714.5	652.0	611.8	598.5	585.1
80°	1362.1	495.8	330.4	424.3	656.5	781.5	683.3	580.6	535.8	513.7	491.3
82.5°	647.6	330.4	254.6	312.6	495.8	683.3	643.0	500.1	451.0	424.3	397.5
85°	290.3	196.5	169.7	201.0	352.9	531.4	567.2	410.9	352.9	442.1	326.1
87.5°	93.9	89.3	89.3	93.9	169.7	232.2	415.3	303.6	281.3	232.2	196.5
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)