

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: P399895

Luminaire Tested: **ARCH-L-PA3-200-830-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399895  
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-PA3-200-830-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 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: 23218 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

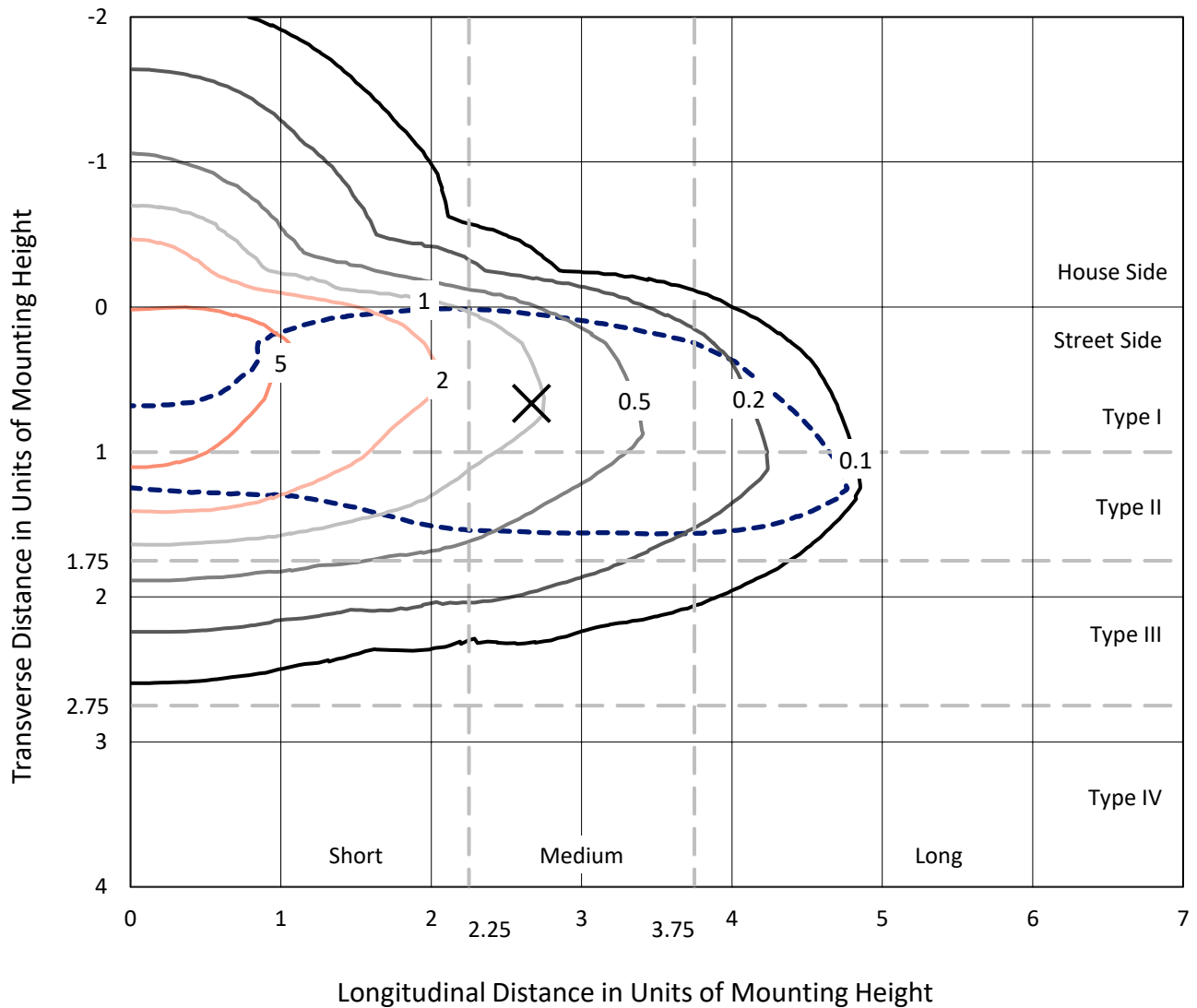
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

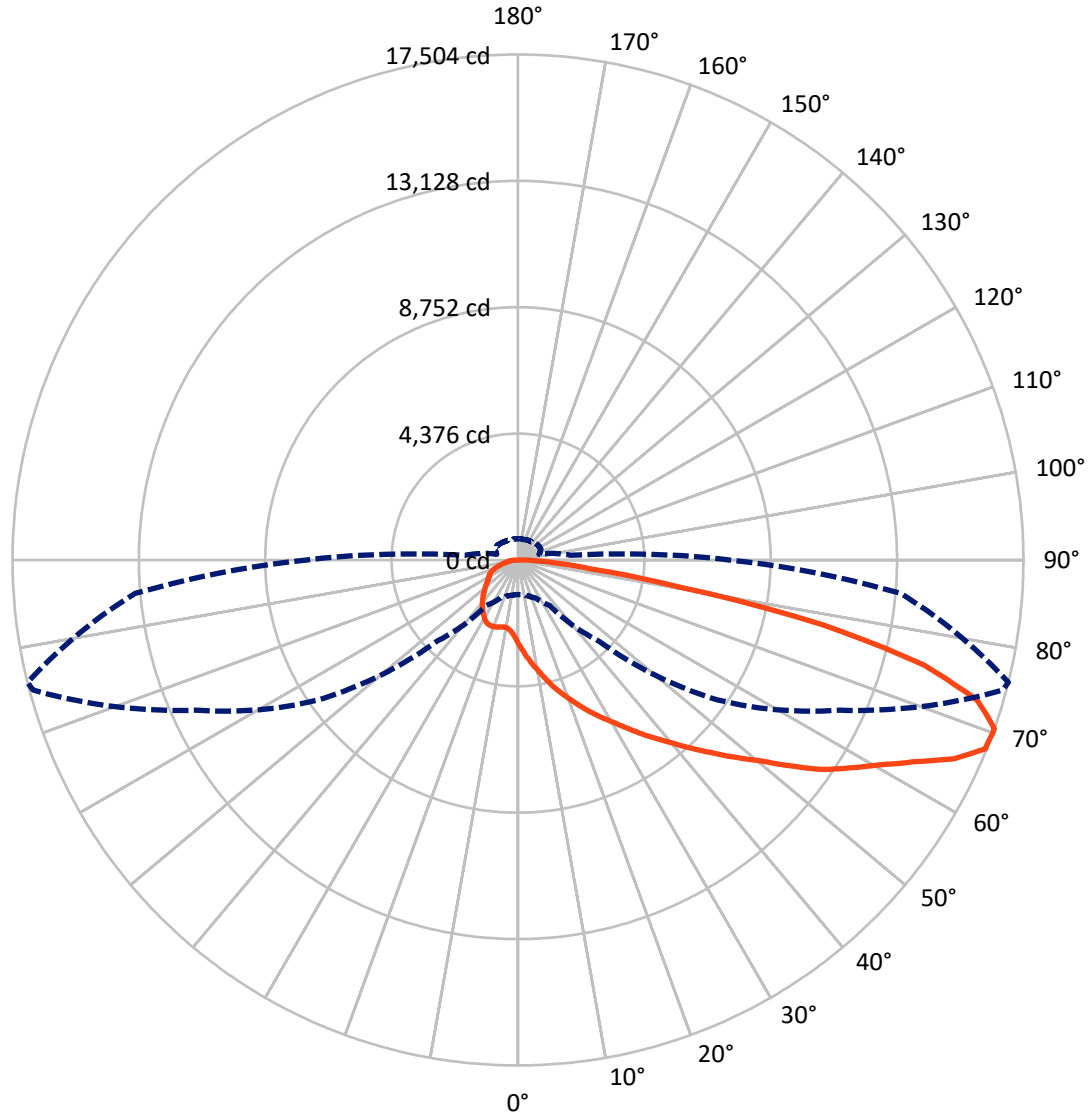
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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
<b>House Side</b>	Lumens	3790.6	0.0	3790.6
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	19427.4	0.0	19427.4
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	23218.0	0.0	23218.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.7	1.3
10°-20°	1025.3	4.4
20°-30°	1834.5	7.9
30°-40°	2967.5	12.8
40°-50°	4292.9	18.5
50°-60°	4913.5	21.2
60°-70°	4519.9	19.5
70°-80°	2795.0	12.0
80°-90°	567.6	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°	23218.0	100.0
0°-180°	23218.0	100.0

**Coefficient of Utilization**



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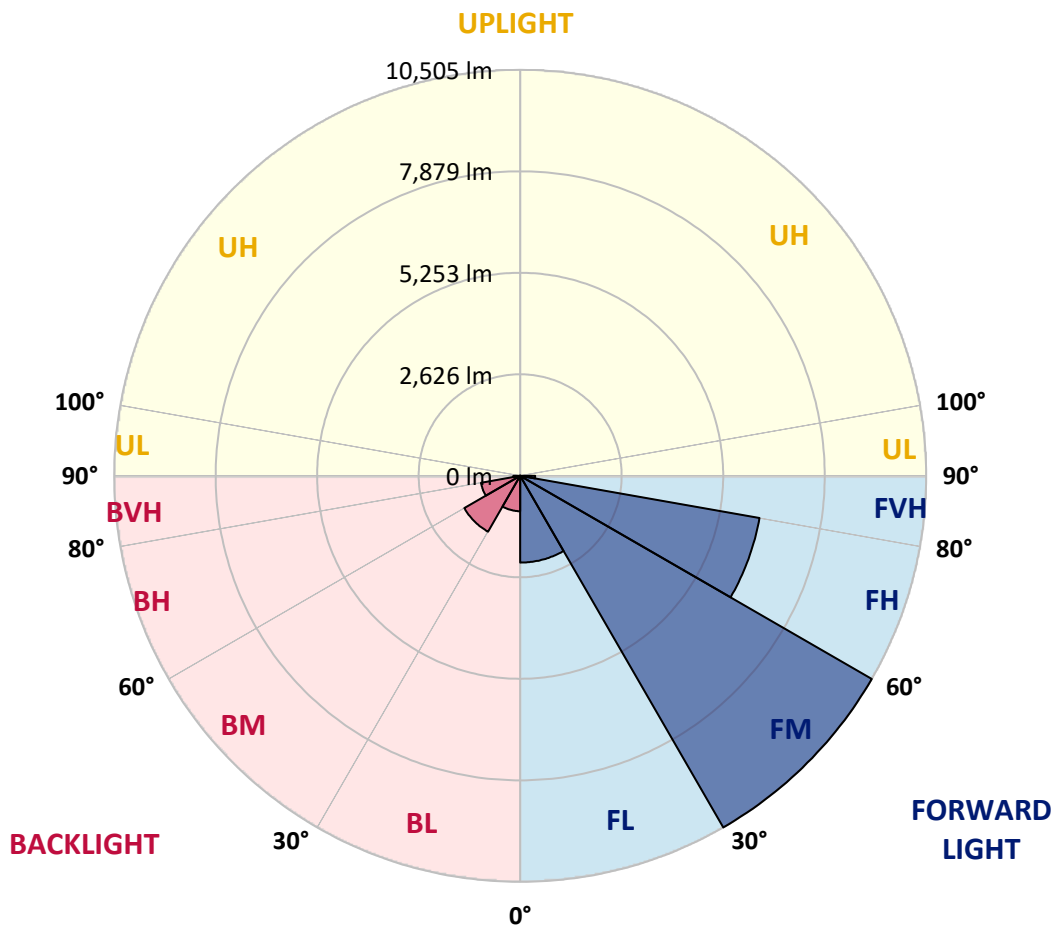
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2245.9	9.7			
FM (30°-60°)	10505.0	45.2			
FH (60°-80°)	6286.8	27.1			G3/7500
FVH (80°-90°)	389.6	1.7			G3/500
BL (0°-30°)	915.5	3.9	B2/1000		
BM (30°-60°)	1669.0	7.2	B2/2500		
BH (60°-80°)	1028.1	4.4	B3/2500		G3/2500
BVH (80°-90°)	177.9	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°	75°	76°	85°
0°	2903.5	2903.5	2903.5	2903.5	2903.5	2903.5	2903.5	2903.5	2903.5	2903.5	2903.5
2.5°	3700.4	3672.9	3669.8	3627.1	3587.4	3480.5	3404.2	3269.9	3135.5	3132.5	2998.2
5°	4277.4	4249.9	4234.7	4182.8	4115.6	3975.2	3837.8	3630.2	3401.2	3385.9	3132.5
7.5°	4668.2	4643.8	4613.3	4591.9	4527.8	4402.6	4234.7	3987.4	3672.9	3642.4	3288.2
10°	4930.8	4915.5	4909.4	4894.1	4854.4	4753.7	4591.9	4329.3	3944.6	3911.0	3453.1
12.5°	5043.7	5037.6	5065.1	5107.9	5123.1	5083.4	4927.7	4680.4	4243.8	4207.2	3651.5
15°	4912.5	4918.6	4988.8	5135.3	5291.0	5376.5	5284.9	5043.7	4582.7	4530.8	3883.6
17.5°	4851.4	4860.6	4909.4	5049.8	5269.7	5535.3	5578.0	5388.7	4909.4	4836.1	4127.8
20°	4958.3	4970.5	5007.1	5117.0	5269.7	5553.6	5776.5	5718.5	5230.0	5153.7	4362.9
22.5°	5230.0	5245.2	5242.2	5312.4	5416.2	5611.6	5886.4	6029.9	5565.8	5480.3	4607.1
25°	5810.1	5797.9	5694.1	5660.5	5687.9	5813.1	6033.0	6329.1	5916.9	5831.4	4863.6
27.5°	6597.8	6582.5	6393.2	6222.2	6069.6	6124.5	6240.6	6570.3	6274.1	6176.4	5107.9
30°	7440.4	7422.1	7202.3	6924.5	6585.6	6506.2	6490.9	6781.0	6634.4	6530.6	5367.4
32.5°	8261.7	8246.5	8011.4	7687.7	7220.6	6982.5	6835.9	7016.1	7043.5	6942.8	5651.3
35°	9009.7	9009.7	8808.2	8423.5	7895.3	7535.1	7293.9	7306.1	7513.7	7397.7	5974.9
37.5°	9675.3	9672.3	9452.4	9073.9	8567.0	8154.9	7855.7	7657.2	7962.5	7861.8	6313.8
40°	10203.5	10182.1	10020.3	9690.6	9180.7	8771.6	8469.3	8069.4	8463.2	8371.6	6674.1
42.5°	10588.2	10576.0	10466.1	10179.1	9693.6	9308.9	9101.3	8588.4	9031.1	8939.5	7095.4
45°	10737.8	10762.2	10762.2	10490.5	10105.8	9754.7	9663.1	9159.3	9644.8	9553.2	7547.3
47.5°	10496.6	10560.7	10692.0	10710.3	10371.4	10133.3	10163.8	9733.3	10276.8	10227.9	8041.9
50°	9742.5	9861.6	10148.5	10667.6	10478.3	10423.3	10591.2	10319.5	10954.6	10939.3	8643.4
52.5°	7797.6	8087.7	8982.3	9913.5	10405.0	10557.7	11015.6	10979.0	11827.8	11852.2	9428.0
55°	5981.0	6091.0	7126.0	8710.5	9956.2	10514.9	11299.6	11623.2	12774.2	12804.8	10148.5
57.5°	4836.1	4909.4	5474.2	7126.0	8933.4	10282.9	11522.4	11998.7	13500.9	13580.2	10789.7
60°	3831.7	3938.5	4317.1	5452.9	7501.5	9724.2	11678.2	12417.0	14282.5	14401.5	11556.0
62.5°	2848.6	2900.5	3257.7	4039.3	5938.3	8719.7	11595.7	12871.9	15241.1	15384.6	12478.1
65°	2027.3	2073.1	2326.5	2873.0	4390.4	7361.1	11116.4	13210.8	16444.1	16590.6	13406.2
67.5°	1517.4	1535.7	1679.2	2008.9	2958.5	5718.5	10145.5	13152.8	17323.4	17454.6	13778.7
70°	1199.9	1206.0	1276.2	1453.3	1923.5	3981.3	8444.9	12301.0	17387.5	17503.5	13308.5
72.5°	995.3	992.3	1032.0	1117.4	1340.3	2518.8	6255.8	10719.5	16563.1	16642.5	11995.7
75°	821.3	827.4	854.9	903.7	1022.8	1660.9	4054.5	8551.8	14612.2	14526.7	10066.1
77.5°	690.0	687.0	699.2	741.9	827.4	1193.8	2375.3	6179.5	10829.4	10786.6	6606.9
80°	555.7	561.8	580.1	616.7	696.1	909.8	1404.4	3856.1	5810.1	5654.4	3156.9
82.5°	372.5	430.5	467.1	509.9	601.5	671.7	891.5	1960.1	2598.2	2558.5	1431.9
85°	177.1	235.1	348.1	396.9	488.5	421.3	604.5	934.3	1300.6	1285.4	516.0
87.5°	36.6	36.6	186.2	222.9	302.3	180.1	335.8	406.1	628.9	589.3	210.7
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°	2903.5	2903.5	2903.5	2903.5	2903.5	2903.5	2903.5	2903.5	2903.5	2903.5	2903.5
2.5°	2918.8	2836.3	2671.5	2540.2	2405.9	2329.5	2234.9	2189.1	2179.9	2155.5	2173.8
5°	2970.7	2808.9	2497.4	2292.9	2155.5	2088.3	2054.7	2042.5	2039.5	2033.4	2033.4
7.5°	3040.9	2793.6	2387.5	2179.9	2091.4	2070.0	2079.2	2097.5	2100.5	2106.6	2103.6
10°	3126.4	2796.7	2326.5	2152.4	2109.7	2112.8	2143.3	2167.7	2179.9	2189.1	2186.0
12.5°	3245.5	2833.3	2317.3	2170.8	2152.4	2164.7	2195.2	2219.6	2231.8	2234.9	2234.9
15°	3401.2	2909.6	2338.7	2210.5	2195.2	2204.3	2222.7	2231.8	2234.9	2231.8	2231.8
17.5°	3572.1	3001.2	2369.2	2234.9	2210.5	2201.3	2195.2	2186.0	2167.7	2155.5	2155.5
20°	3737.0	3083.6	2384.5	2231.8	2189.1	2152.4	2115.8	2070.0	2039.5	2015.1	2015.1
22.5°	3901.9	3160.0	2384.5	2198.2	2131.1	2060.9	1984.5	1911.2	1865.5	1834.9	1834.9
25°	4075.9	3233.2	2366.2	2140.2	2039.5	1938.7	1834.9	1743.3	1697.5	1667.0	1660.9
27.5°	4222.5	3276.0	2317.3	2057.8	1926.5	1798.3	1679.2	1584.6	1551.0	1523.5	1523.5
30°	4378.2	3303.5	2225.7	1950.9	1798.3	1651.7	1529.6	1453.3	1416.6	1377.0	1373.9
32.5°	4552.2	3321.8	2121.9	1838.0	1667.0	1511.3	1407.5	1346.4	1267.0	1224.3	1218.2
35°	4753.7	3346.2	2012.0	1709.7	1535.7	1395.3	1334.2	1233.5	1157.1	1120.5	1117.4
37.5°	4967.4	3364.5	1892.9	1596.8	1416.6	1318.9	1257.9	1138.8	1071.6	1016.7	1010.6
40°	5193.3	3364.5	1770.8	1486.9	1322.0	1285.4	1169.3	1062.5	949.5	922.0	915.9
42.5°	5443.7	3358.4	1648.7	1380.0	1233.5	1209.0	1117.4	1004.5	946.5	922.0	915.9
45°	5709.3	3337.1	1532.7	1257.9	1141.9	1093.0	1022.8	992.3	967.8	967.8	967.8
47.5°	6011.6	3318.7	1401.4	1148.0	1074.7	1019.7	967.8	949.5	946.5	955.6	964.8
50°	6399.3	3312.6	1291.5	1068.6	1022.8	958.7	952.6	937.3	940.4	940.4	940.4
52.5°	6869.5	3257.7	1187.7	1010.6	970.9	894.6	912.9	928.1	934.3	931.2	928.1
55°	7214.5	3160.0	1099.1	970.9	934.3	870.1	894.6	919.0	925.1	915.9	915.9
57.5°	7525.9	3022.6	1028.9	940.4	909.8	854.9	882.3	906.8	900.7	897.6	894.6
60°	7883.1	2891.3	973.9	925.1	885.4	848.8	873.2	888.5	879.3	873.2	870.1
62.5°	8270.9	2763.1	934.3	925.1	867.1	845.7	864.0	870.1	851.8	845.7	845.7
65°	8451.0	2561.6	891.5	925.1	857.9	839.6	845.7	839.6	821.3	821.3	818.2
67.5°	8154.9	2228.8	836.6	912.9	870.1	830.4	818.2	809.1	787.7	787.7	781.6
70°	7336.6	1831.9	757.2	873.2	873.2	827.4	781.6	760.2	735.8	745.0	732.7
72.5°	6268.0	1453.3	659.5	806.0	854.9	824.3	741.9	708.3	687.0	696.1	677.8
75°	5077.3	1126.6	543.5	699.2	809.1	809.1	702.2	656.4	632.0	632.0	610.6
77.5°	3236.3	833.5	442.7	580.1	726.6	787.7	668.6	598.4	561.8	552.6	537.3
80°	1602.9	586.2	363.3	461.0	619.8	738.9	644.2	531.2	479.3	461.0	433.5
82.5°	851.8	406.1	290.0	360.3	494.6	665.6	613.7	458.0	393.9	366.4	335.8
85°	381.6	250.4	232.0	274.8	375.5	546.5	552.6	375.5	302.3	360.3	265.6
87.5°	140.4	113.0	113.0	140.4	216.8	229.0	390.8	241.2	192.3	131.3	103.8
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)