

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: P399391

Luminaire Tested: **ARCH-L-PA3-130-830-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399391  
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-PA3-130-830-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16904 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

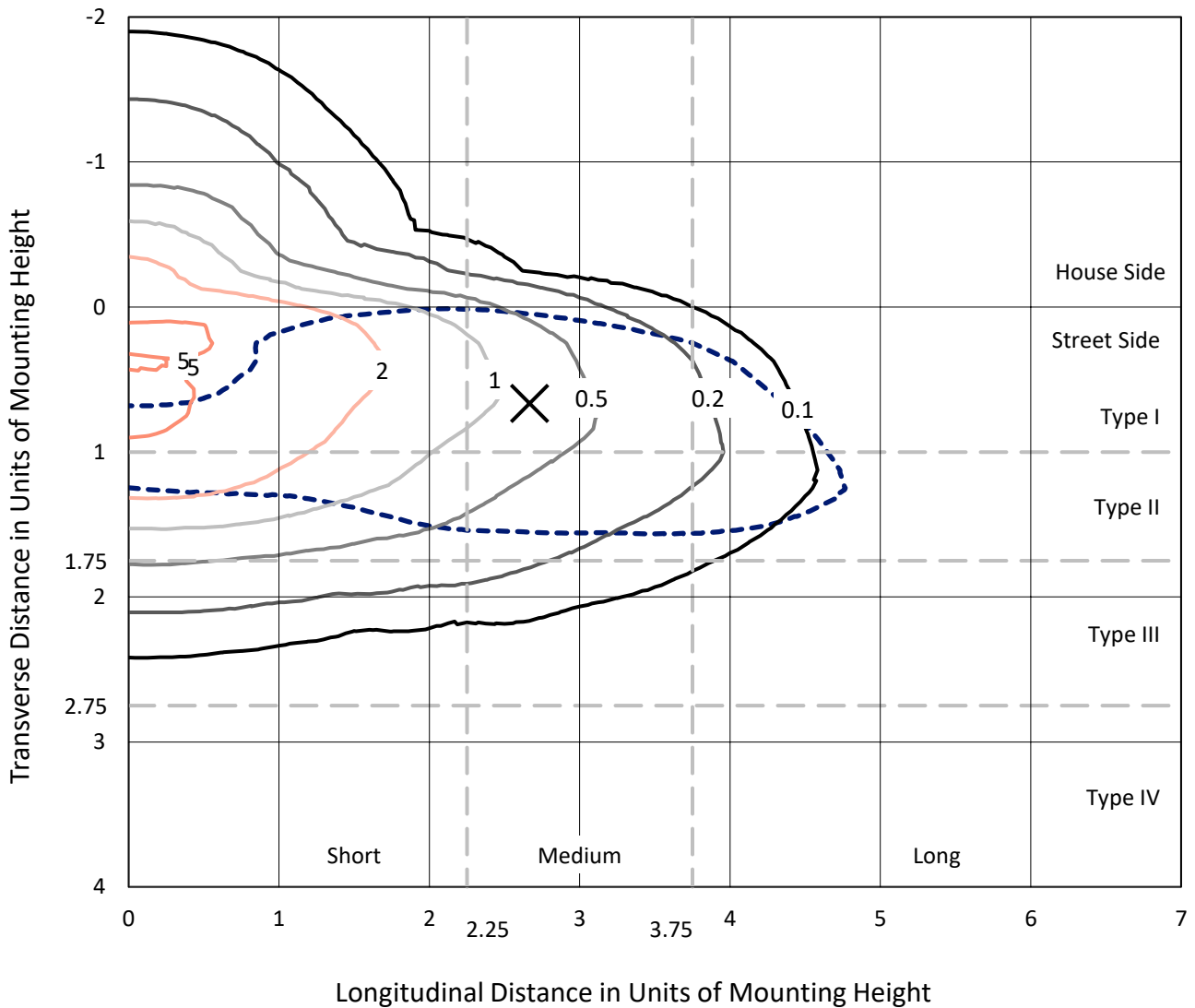
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

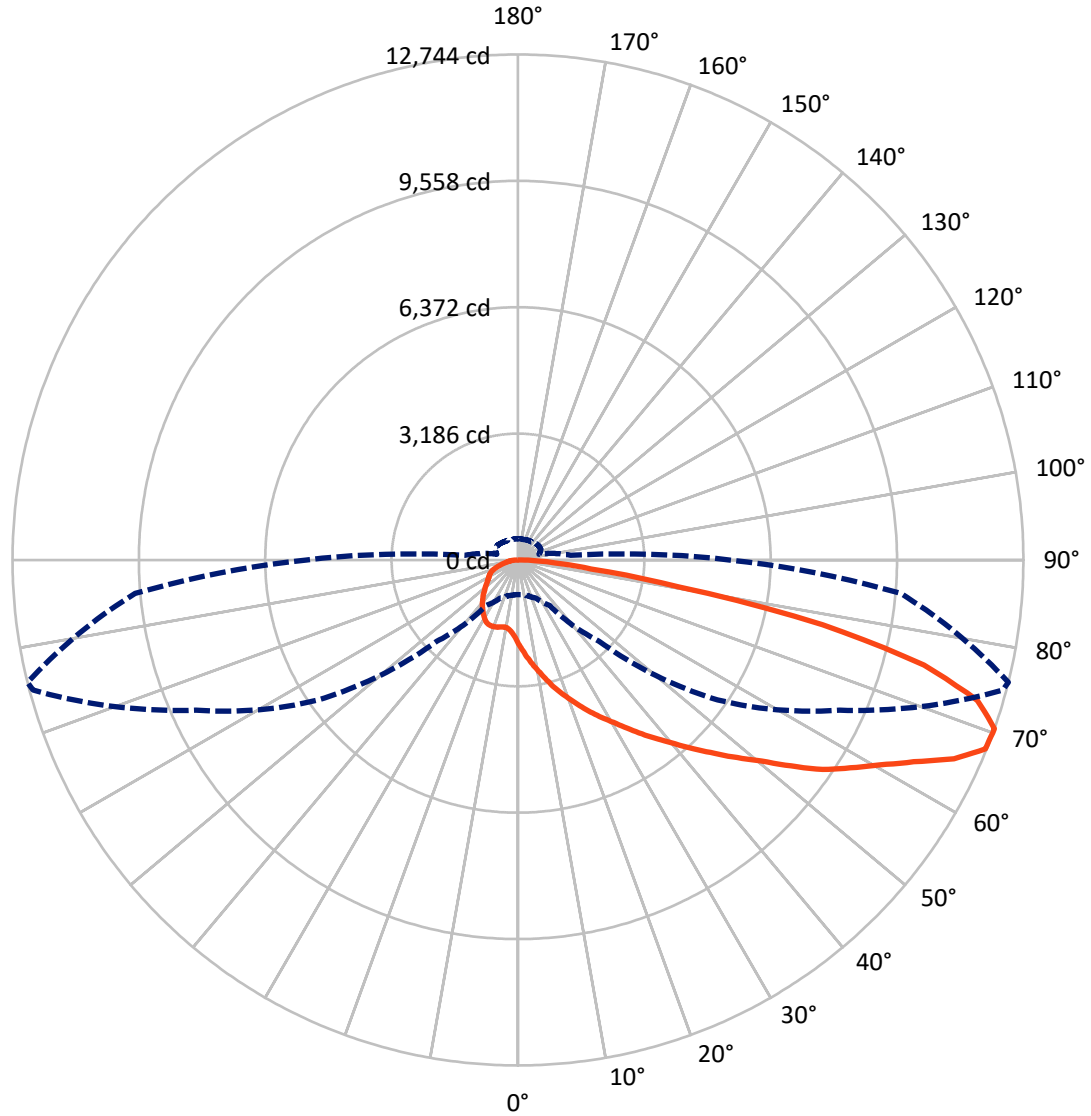
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2759.7	0.0	2759.7
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	14144.3	0.0	14144.3
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	16904.0	0.0	16904.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.6	1.3
10°-20°	746.5	4.4
20°-30°	1335.6	7.9
30°-40°	2160.5	12.8
40°-50°	3125.5	18.5
50°-60°	3577.3	21.2
60°-70°	3290.7	19.5
70°-80°	2034.9	12.0
80°-90°	413.2	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°	16904.0	100.0
0°-180°	16904.0	100.0

**Coefficient of Utilization**



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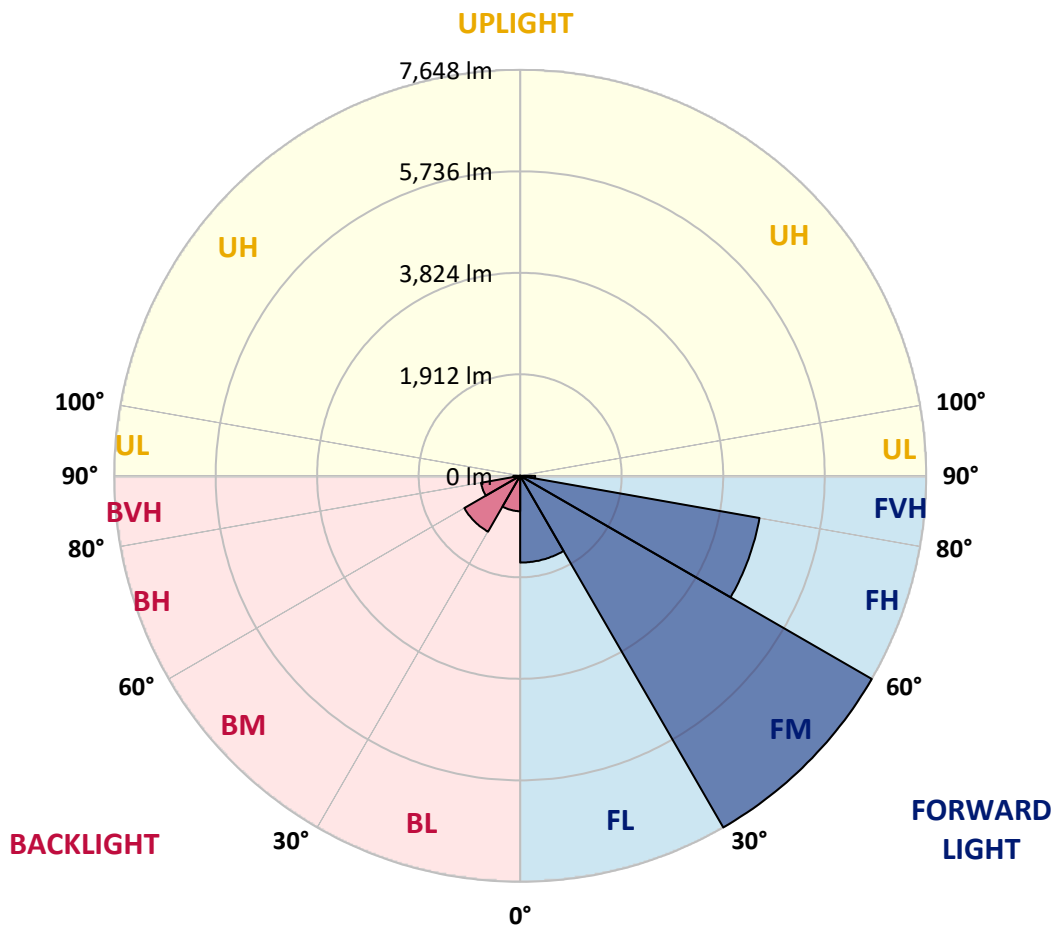
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1635.2	9.7			
FM (30°-60°)	7648.3	45.2			
FH (60°-80°)	4577.1	27.1			G2/5000
FVH (80°-90°)	283.7	1.7			G3/500
BL (0°-30°)	666.6	3.9	B2/1000		
BM (30°-60°)	1215.1	7.2	B2/2500		
BH (60°-80°)	748.5	4.4	B2/1000		G2/1000
BVH (80°-90°)	129.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9
2.5°	2694.1	2674.1	2671.8	2640.7	2611.8	2534.0	2478.5	2380.7	2282.9	2280.6	2182.8
5°	3114.2	3094.2	3083.1	3045.3	2996.4	2894.1	2794.1	2643.0	2476.2	2465.1	2280.6
7.5°	3398.7	3380.9	3358.7	3343.1	3296.5	3205.3	3083.1	2903.0	2674.1	2651.8	2394.0
10°	3589.9	3578.8	3574.3	3563.2	3534.3	3461.0	3343.1	3152.0	2871.9	2847.5	2514.0
12.5°	3672.1	3667.7	3687.7	3718.8	3729.9	3701.0	3587.7	3407.6	3089.7	3063.1	2658.5
15°	3576.5	3581.0	3632.1	3738.8	3852.2	3914.4	3847.7	3672.1	3336.5	3298.7	2827.4
17.5°	3532.1	3538.8	3574.3	3676.6	3836.6	4030.0	4061.1	3923.3	3574.3	3521.0	3005.3
20°	3609.9	3618.8	3645.5	3725.5	3836.6	4043.3	4205.6	4163.4	3807.7	3752.1	3176.4
22.5°	3807.7	3818.8	3816.6	3867.7	3943.3	4085.6	4285.6	4390.1	4052.2	3990.0	3354.3
25°	4230.1	4221.2	4145.6	4121.1	4141.1	4232.3	4392.3	4607.9	4307.9	4245.6	3541.0
27.5°	4803.5	4792.4	4654.6	4530.1	4419.0	4459.0	4543.5	4783.5	4567.9	4496.8	3718.8
30°	5417.1	5403.7	5243.7	5041.4	4794.7	4736.9	4725.8	4936.9	4830.2	4754.6	3907.7
32.5°	6015.0	6003.9	5832.7	5597.1	5257.0	5083.6	4976.9	5108.1	5128.1	5054.7	4114.5
35°	6559.6	6559.6	6412.9	6132.8	5748.3	5486.0	5310.4	5319.2	5470.4	5385.9	4350.1
37.5°	7044.2	7041.9	6881.9	6606.3	6237.3	5937.2	5719.4	5574.9	5797.2	5723.8	4596.8
40°	7428.7	7413.2	7295.3	7055.3	6684.1	6386.2	6166.1	5875.0	6161.7	6095.0	4859.1
42.5°	7708.8	7699.9	7619.9	7410.9	7057.5	6777.4	6626.3	6252.8	6575.2	6508.5	5165.9
45°	7817.7	7835.5	7835.5	7637.7	7357.6	7102.0	7035.3	6668.5	7021.9	6955.3	5494.9
47.5°	7642.1	7688.8	7784.4	7797.7	7551.0	7377.6	7399.8	7086.4	7482.1	7446.5	5855.0
50°	7093.1	7179.8	7388.7	7766.6	7628.8	7588.8	7711.0	7513.2	7975.5	7964.4	6292.9
52.5°	5677.1	5888.3	6539.6	7217.6	7575.4	7686.6	8020.0	7993.3	8611.3	8629.1	6864.1
55°	4354.5	4434.6	5188.1	6341.8	7248.7	7655.4	8226.7	8462.3	9300.3	9322.6	7388.7
57.5°	3521.0	3574.3	3985.5	5188.1	6504.0	7486.5	8389.0	8735.7	9829.4	9887.2	7855.5
60°	2789.7	2867.5	3143.1	3970.0	5461.5	7079.7	8502.3	9040.3	10398.4	10485.1	8413.4
62.5°	2073.9	2111.7	2371.8	2940.8	4323.4	6348.4	8442.3	9371.5	11096.4	11200.9	9084.7
65°	1476.0	1509.3	1693.8	2091.7	3196.4	5359.3	8093.3	9618.2	11972.2	12078.9	9760.5
67.5°	1104.7	1118.1	1222.6	1462.6	2153.9	4163.4	7386.5	9576.0	12612.4	12708.0	10031.7
70°	873.6	878.0	929.1	1058.1	1400.4	2898.6	6148.4	8955.8	12659.1	12743.5	9689.3
72.5°	724.6	722.4	751.3	813.6	975.8	1833.8	4554.6	7804.4	12058.9	12116.7	8733.5
75°	597.9	602.4	622.4	658.0	744.7	1209.2	2951.9	6226.2	10638.5	10576.3	7328.7
77.5°	502.4	500.1	509.0	540.1	602.4	869.1	1729.4	4499.0	7884.4	7853.3	4810.2
80°	404.6	409.0	422.3	449.0	506.8	662.4	1022.5	2807.4	4230.1	4116.7	2298.4
82.5°	271.2	313.4	340.1	371.2	437.9	489.0	649.1	1427.1	1891.6	1862.7	1042.5
85°	128.9	171.2	253.4	289.0	355.7	306.8	440.1	680.2	946.9	935.8	375.7
87.5°	26.7	26.7	135.6	162.3	220.1	131.1	244.5	295.6	457.9	429.0	153.4
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°	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9
2.5°	2125.0	2065.0	1945.0	1849.4	1751.6	1696.0	1627.1	1593.8	1587.1	1569.3	1582.7
5°	2162.8	2045.0	1818.3	1669.4	1569.3	1520.4	1496.0	1487.1	1484.9	1480.4	1480.4
7.5°	2213.9	2033.9	1738.3	1587.1	1522.6	1507.1	1513.8	1527.1	1529.3	1533.8	1531.5
10°	2276.2	2036.1	1693.8	1567.1	1536.0	1538.2	1560.4	1578.2	1587.1	1593.8	1591.6
12.5°	2362.9	2062.8	1687.1	1580.4	1567.1	1576.0	1598.2	1616.0	1624.9	1627.1	1627.1
15°	2476.2	2118.4	1702.7	1609.3	1598.2	1604.9	1618.2	1624.9	1627.1	1624.9	1624.9
17.5°	2600.7	2185.0	1724.9	1627.1	1609.3	1602.7	1598.2	1591.6	1578.2	1569.3	1569.3
20°	2720.8	2245.1	1736.0	1624.9	1593.8	1567.1	1540.4	1507.1	1484.9	1467.1	1467.1
22.5°	2840.8	2300.6	1736.0	1600.4	1551.5	1500.4	1444.8	1391.5	1358.2	1335.9	1335.9
25°	2967.5	2354.0	1722.7	1558.2	1484.9	1411.5	1335.9	1269.2	1235.9	1213.7	1209.2
27.5°	3074.2	2385.1	1687.1	1498.2	1402.6	1309.3	1222.6	1153.7	1129.2	1109.2	1109.2
30°	3187.5	2405.1	1620.4	1420.4	1309.3	1202.6	1113.6	1058.1	1031.4	1002.5	1000.3
32.5°	3314.2	2418.4	1544.9	1338.1	1213.7	1100.3	1024.7	980.3	922.5	891.4	886.9
35°	3461.0	2436.2	1464.8	1244.8	1118.1	1015.8	971.4	898.0	842.5	815.8	813.6
37.5°	3616.6	2449.6	1378.2	1162.5	1031.4	960.3	915.8	829.1	780.2	740.2	735.8
40°	3781.0	2449.6	1289.2	1082.5	962.5	935.8	851.3	773.5	691.3	671.3	666.9
42.5°	3963.3	2445.1	1200.3	1004.7	898.0	880.2	813.6	731.3	689.1	671.3	666.9
45°	4156.7	2429.6	1115.9	915.8	831.3	795.8	744.7	722.4	704.6	704.6	704.6
47.5°	4376.8	2416.2	1020.3	835.8	782.4	742.4	704.6	691.3	689.1	695.7	702.4
50°	4659.1	2411.8	940.3	778.0	744.7	698.0	693.5	682.4	684.6	684.6	684.6
52.5°	5001.4	2371.8	864.7	735.8	706.9	651.3	664.6	675.7	680.2	678.0	675.7
55°	5252.6	2300.6	800.2	706.9	680.2	633.5	651.3	669.1	673.5	666.9	666.9
57.5°	5479.3	2200.6	749.1	684.6	662.4	622.4	642.4	660.2	655.7	653.5	651.3
60°	5739.4	2105.0	709.1	673.5	644.6	617.9	635.7	646.8	640.2	635.7	633.5
62.5°	6021.7	2011.7	680.2	673.5	631.3	615.7	629.1	633.5	620.2	615.7	615.7
65°	6152.8	1865.0	649.1	673.5	624.6	611.3	615.7	611.3	597.9	597.9	595.7
67.5°	5937.2	1622.7	609.1	664.6	633.5	604.6	595.7	589.1	573.5	573.5	569.0
70°	5341.5	1333.7	551.3	635.7	635.7	602.4	569.0	553.5	535.7	542.4	533.5
72.5°	4563.5	1058.1	480.1	586.8	622.4	600.2	540.1	515.7	500.1	506.8	493.5
75°	3696.6	820.2	395.7	509.0	589.1	589.1	511.3	477.9	460.1	460.1	444.6
77.5°	2356.2	606.8	322.3	422.3	529.0	573.5	486.8	435.7	409.0	402.3	391.2
80°	1167.0	426.8	264.5	335.6	451.2	537.9	469.0	386.8	349.0	335.6	315.6
82.5°	620.2	295.6	211.2	262.3	360.1	484.6	446.8	333.4	286.7	266.7	244.5
85°	277.9	182.3	168.9	200.1	273.4	397.9	402.3	273.4	220.1	262.3	193.4
87.5°	102.3	82.2	82.2	102.3	157.8	166.7	284.5	175.6	140.0	95.6	75.6
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)