

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: P399265

Luminaire Tested: **ARCH-L-PA3-120-727-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399265  
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-PA3-120-727-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16597 lumens  
Efficiency: N/A  
Efficacy: 134.9 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

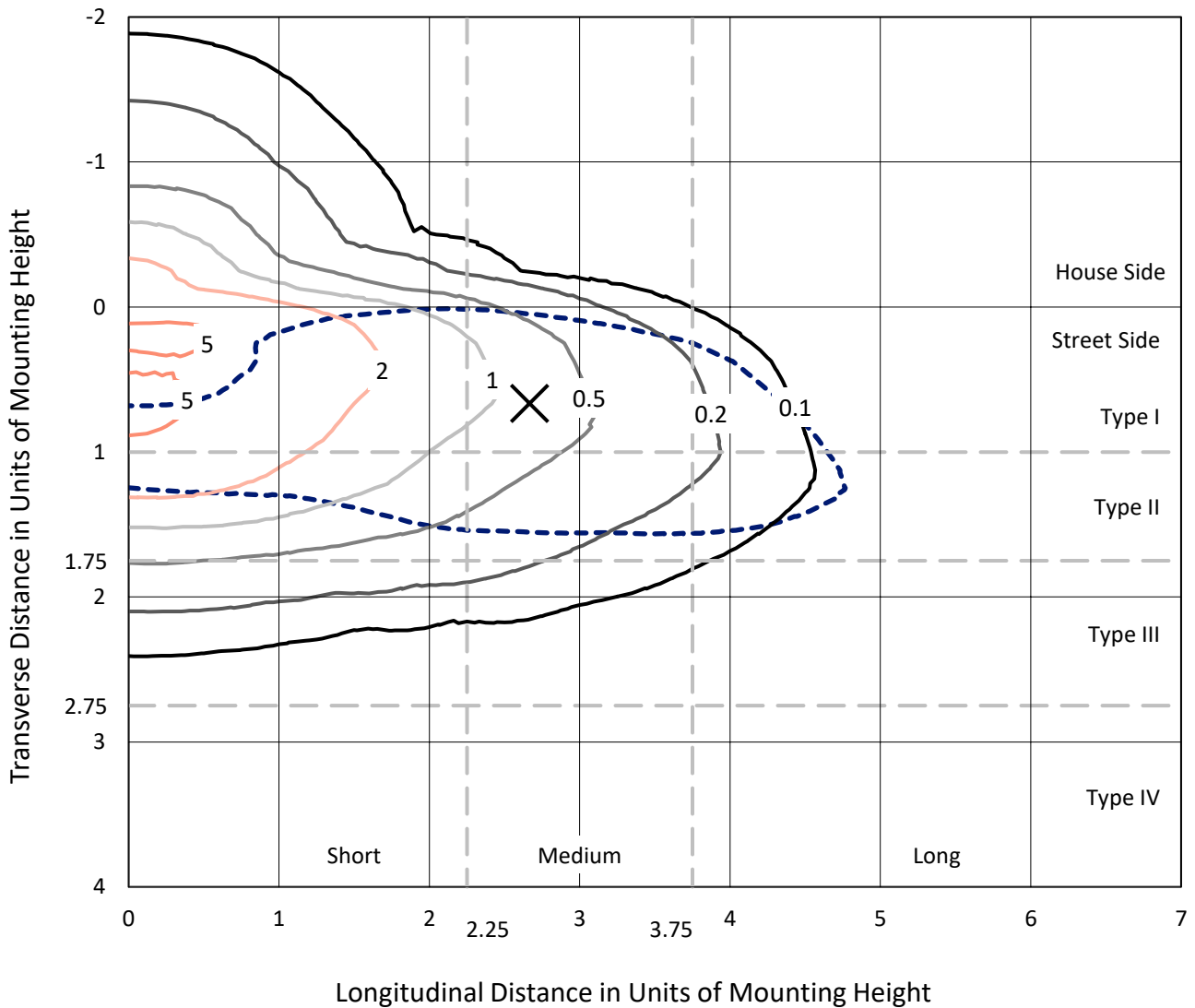
Input Watts (W): 123  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

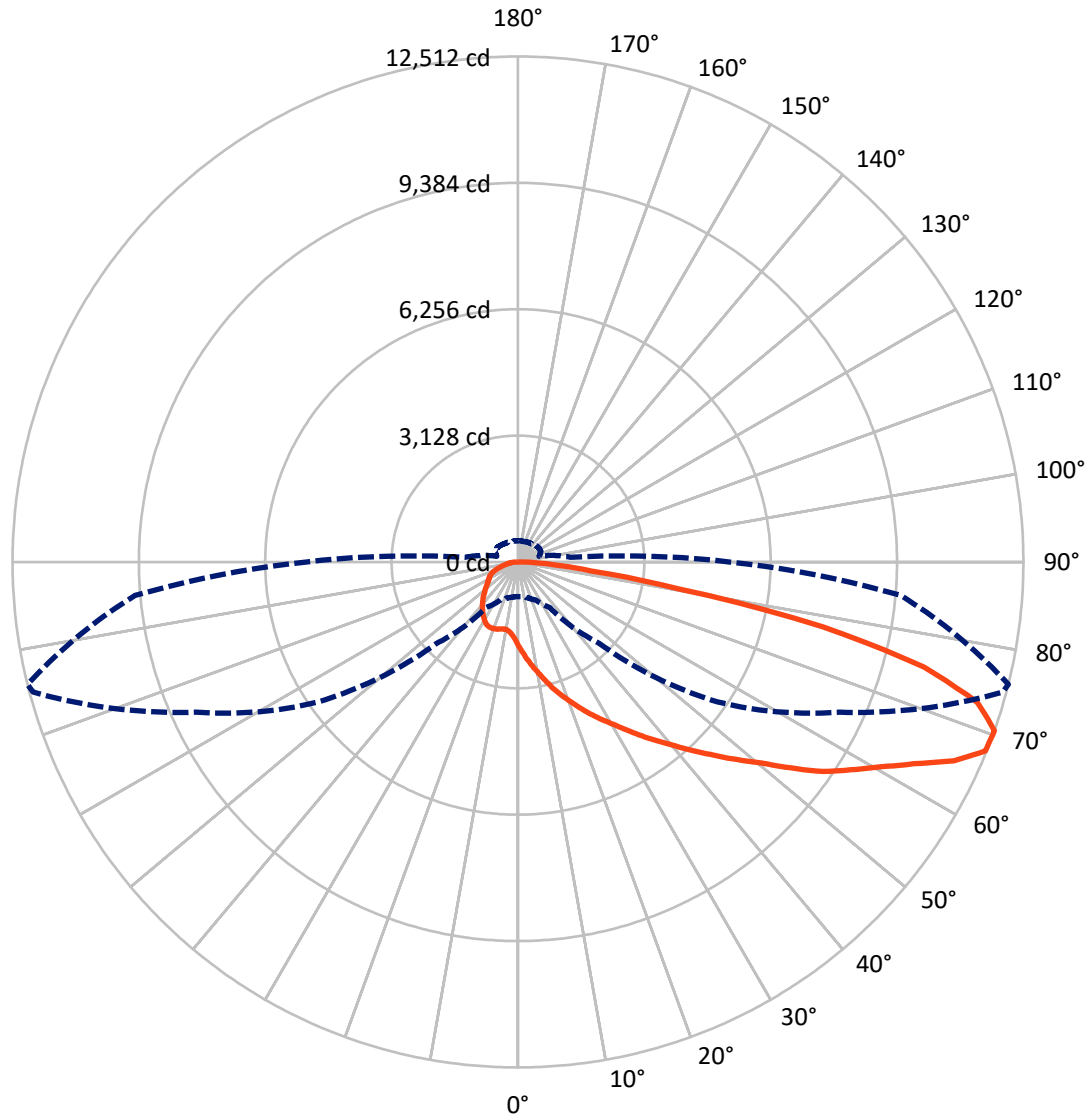
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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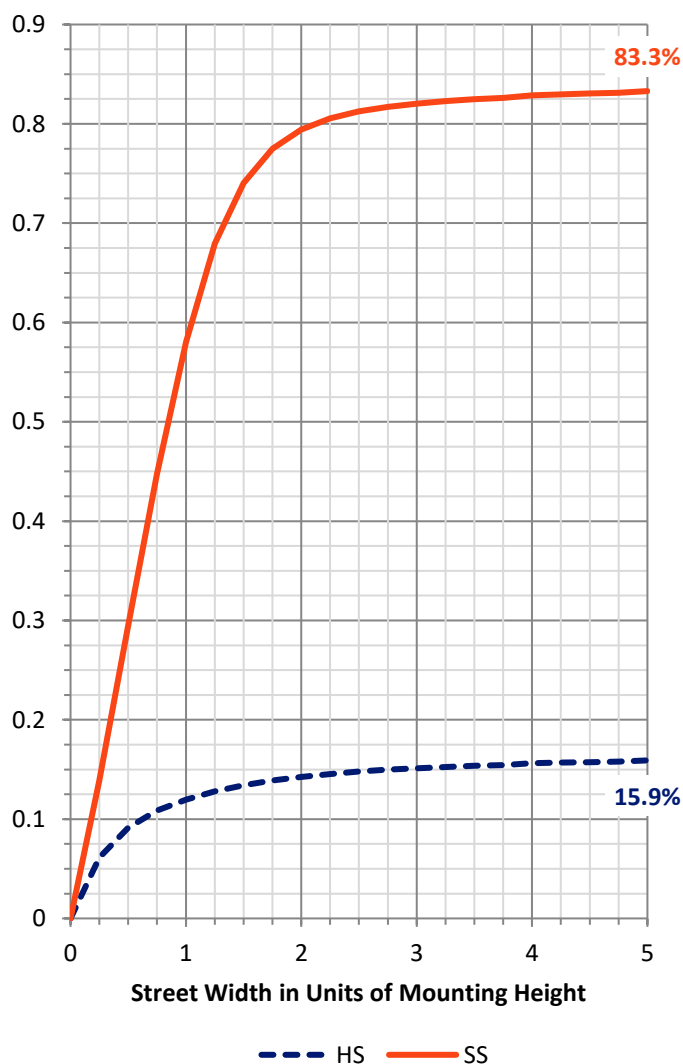
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2709.6	0.0	2709.6
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	13887.4	0.0	13887.4
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	16597.0	0.0	16597.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.7	1.3
10°-20°	732.9	4.4
20°-30°	1311.3	7.9
30°-40°	2121.3	12.8
40°-50°	3068.7	18.5
50°-60°	3512.4	21.2
60°-70°	3231.0	19.5
70°-80°	1998.0	12.0
80°-90°	405.7	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°	16597.0	100.0
0°-180°	16597.0	100.0

**Coefficient of Utilization**



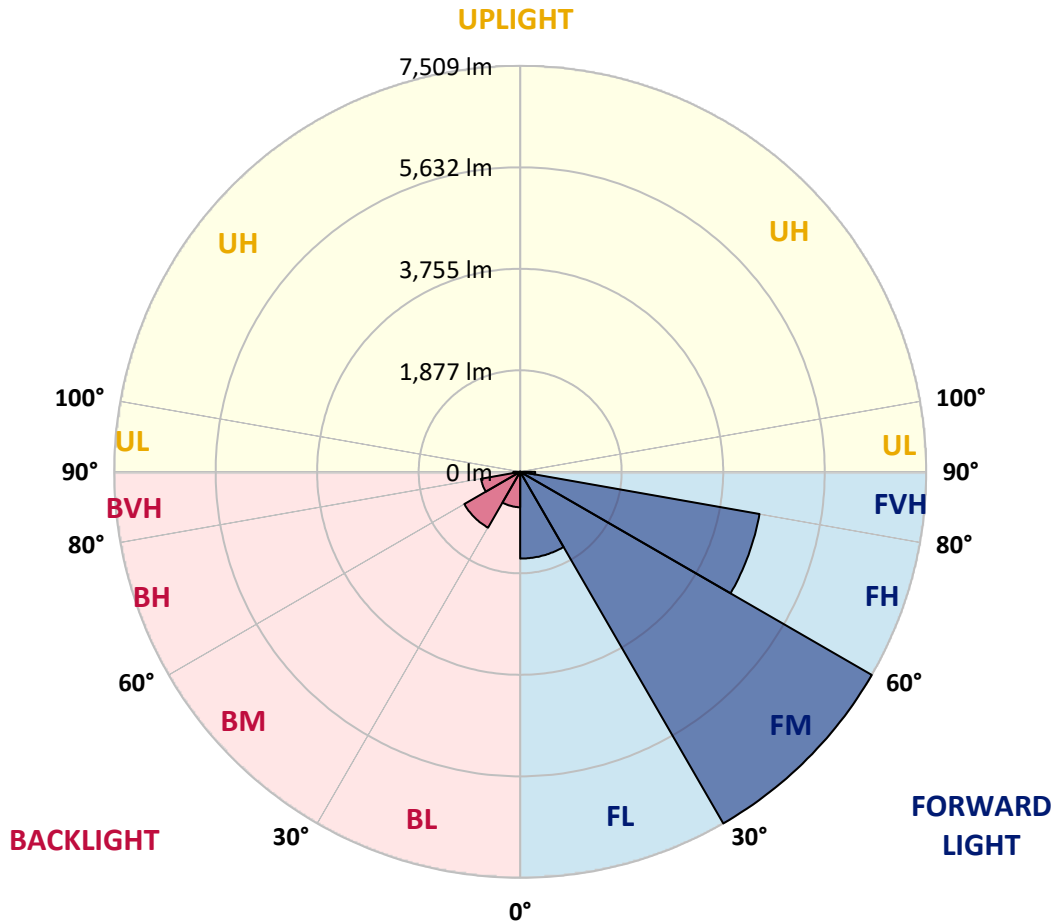
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1605.5	9.7			
FM (30°-60°)	7509.4	45.2			
FH (60°-80°)	4494.0	27.1			G2/5000
FVH (80°-90°)	278.5	1.7			G3/500
BL (0°-30°)	654.5	3.9	B2/1000		
BM (30°-60°)	1193.0	7.2	B2/2500		
BH (60°-80°)	735.0	4.4	B2/1000		G2/1000
BVH (80°-90°)	127.2	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°	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5
2.5°	2645.1	2625.5	2623.3	2592.8	2564.4	2488.0	2433.5	2337.4	2241.4	2239.2	2143.2
5°	3057.6	3038.0	3027.1	2990.0	2942.0	2841.6	2743.4	2595.0	2431.3	2420.4	2239.2
7.5°	3337.0	3319.5	3297.7	3282.4	3236.6	3147.1	3027.1	2850.3	2625.5	2603.7	2350.5
10°	3524.7	3513.8	3509.4	3498.5	3470.1	3398.1	3282.4	3094.7	2819.7	2795.7	2468.4
12.5°	3605.4	3601.1	3620.7	3651.3	3662.2	3633.8	3522.5	3345.7	3033.6	3007.4	2610.2
15°	3511.6	3516.0	3566.2	3670.9	3782.2	3843.3	3777.8	3605.4	3275.9	3238.8	2776.1
17.5°	3467.9	3474.5	3509.4	3609.8	3766.9	3956.8	3987.4	3852.1	3509.4	3457.0	2950.7
20°	3544.3	3553.1	3579.2	3657.8	3766.9	3969.9	4129.2	4087.8	3738.6	3684.0	3118.7
22.5°	3738.6	3749.5	3747.3	3797.5	3871.7	4011.4	4207.8	4310.4	3978.6	3917.5	3293.3
25°	4153.2	4144.5	4070.3	4046.3	4065.9	4155.4	4312.6	4524.3	4229.6	4168.5	3476.7
27.5°	4716.3	4705.4	4570.1	4447.9	4338.7	4378.0	4461.0	4696.7	4485.0	4415.1	3651.3
30°	5318.7	5305.6	5148.4	4949.8	4707.6	4650.8	4639.9	4847.3	4742.5	4668.3	3836.8
32.5°	5905.8	5894.8	5726.8	5495.5	5161.5	4991.3	4886.5	5015.3	5035.0	4962.9	4039.7
35°	6440.5	6440.5	6296.4	6021.4	5643.9	5386.3	5213.9	5222.6	5371.1	5288.1	4271.1
37.5°	6916.2	6914.1	6756.9	6486.3	6124.0	5829.4	5615.5	5473.6	5691.9	5619.9	4513.3
40°	7293.8	7278.5	7162.9	6927.1	6562.7	6270.2	6054.2	5768.3	6049.8	5984.3	4770.9
42.5°	7568.8	7560.1	7481.5	7276.3	6929.3	6654.3	6505.9	6139.3	6455.7	6390.3	5072.1
45°	7675.7	7693.2	7693.2	7499.0	7224.0	6973.0	6907.5	6547.4	6894.4	6828.9	5395.1
47.5°	7503.3	7549.2	7643.0	7656.1	7413.8	7243.6	7265.4	6957.7	7346.2	7311.3	5748.6
50°	6964.3	7049.4	7254.5	7625.5	7490.2	7450.9	7571.0	7376.7	7830.7	7819.8	6178.6
52.5°	5574.0	5781.4	6420.8	7086.5	7437.8	7547.0	7874.3	7848.2	8454.9	8472.3	6739.5
55°	4275.5	4354.0	5093.9	6226.6	7117.0	7516.4	8077.3	8308.7	9131.4	9153.3	7254.5
57.5°	3457.0	3509.4	3913.2	5093.9	6385.9	7350.5	8236.6	8577.1	9650.9	9707.6	7712.8
60°	2739.0	2815.4	3086.0	3897.9	5362.3	6951.2	8347.9	8876.1	10209.6	10294.7	8260.6
62.5°	2036.2	2073.3	2328.7	2887.4	4244.9	6233.1	8289.0	9201.3	10894.9	10997.4	8919.7
65°	1449.2	1481.9	1663.0	2053.7	3138.4	5261.9	7946.4	9443.5	11754.8	11859.5	9583.2
67.5°	1084.7	1097.8	1200.4	1436.1	2114.8	4087.8	7252.3	9402.1	12383.3	12477.2	9849.5
70°	857.7	862.1	912.3	1038.9	1375.0	2845.9	6036.7	8793.2	12429.1	12512.1	9513.4
72.5°	711.5	709.3	737.7	798.8	958.1	1800.5	4471.9	7662.6	11839.9	11896.6	8574.9
75°	587.1	591.4	611.1	646.0	731.1	1187.3	2898.3	6113.1	10445.3	10384.2	7195.6
77.5°	493.2	491.1	499.8	530.3	591.4	853.3	1698.0	4417.3	7741.2	7710.7	4722.9
80°	397.2	401.6	414.7	440.9	497.6	650.4	1003.9	2756.5	4153.2	4041.9	2256.7
82.5°	266.3	307.7	333.9	364.5	429.9	480.1	637.3	1401.1	1857.3	1828.9	1023.6
85°	126.6	168.0	248.8	283.7	349.2	301.2	432.1	667.8	929.7	918.8	368.8
87.5°	26.2	26.2	133.1	159.3	216.1	128.8	240.1	290.3	449.6	421.2	150.6
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°	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5
2.5°	2086.4	2027.5	1909.7	1815.8	1719.8	1665.2	1597.6	1564.8	1558.3	1540.8	1553.9
5°	2123.5	2007.9	1785.3	1639.0	1540.8	1492.8	1468.8	1460.1	1457.9	1453.5	1453.5
7.5°	2173.7	1997.0	1706.7	1558.3	1495.0	1479.7	1486.3	1499.4	1501.5	1505.9	1503.7
10°	2234.8	1999.1	1663.0	1538.6	1508.1	1510.3	1532.1	1549.6	1558.3	1564.8	1562.6
12.5°	2320.0	2025.3	1656.5	1551.7	1538.6	1547.4	1569.2	1586.7	1595.4	1597.6	1597.6
15°	2431.3	2079.9	1671.8	1580.1	1569.2	1575.7	1588.8	1595.4	1597.6	1595.4	1595.4
17.5°	2553.5	2145.4	1693.6	1597.6	1580.1	1573.6	1569.2	1562.6	1549.6	1540.8	1540.8
20°	2671.3	2204.3	1704.5	1595.4	1564.8	1538.6	1512.4	1479.7	1457.9	1440.4	1440.4
22.5°	2789.2	2258.9	1704.5	1571.4	1523.4	1473.2	1418.6	1366.2	1333.5	1311.7	1311.7
25°	2913.6	2311.2	1691.4	1529.9	1457.9	1385.9	1311.7	1246.2	1213.5	1191.6	1187.3
27.5°	3018.4	2341.8	1656.5	1471.0	1377.1	1285.5	1200.4	1132.7	1108.7	1089.1	1089.1
30°	3129.7	2361.4	1591.0	1394.6	1285.5	1180.7	1093.4	1038.9	1012.7	984.3	982.1
32.5°	3254.1	2374.5	1516.8	1313.8	1191.6	1080.3	1006.1	962.5	905.7	875.2	870.8
35°	3398.1	2392.0	1438.2	1222.2	1097.8	997.4	953.7	881.7	827.2	801.0	798.8
37.5°	3550.9	2405.1	1353.1	1141.4	1012.7	942.8	899.2	814.1	766.0	726.8	722.4
40°	3712.4	2405.1	1265.8	1062.9	945.0	918.8	835.9	759.5	678.7	659.1	654.7
42.5°	3891.3	2400.7	1178.5	986.5	881.7	864.3	798.8	718.0	676.6	659.1	654.7
45°	4081.2	2385.4	1095.6	899.2	816.2	781.3	731.1	709.3	691.8	691.8	691.8
47.5°	4297.3	2372.3	1001.8	820.6	768.2	728.9	691.8	678.7	676.6	683.1	689.7
50°	4574.5	2368.0	923.2	763.9	731.1	685.3	680.9	670.0	672.2	672.2	672.2
52.5°	4910.6	2328.7	849.0	722.4	694.0	639.5	652.6	663.5	667.8	665.7	663.5
55°	5157.2	2258.9	785.7	694.0	667.8	622.0	639.5	656.9	661.3	654.7	654.7
57.5°	5379.8	2160.6	735.5	672.2	650.4	611.1	630.7	648.2	643.8	641.6	639.5
60°	5635.1	2066.8	696.2	661.3	632.9	606.7	624.2	635.1	628.6	624.2	622.0
62.5°	5912.3	1975.1	667.8	661.3	619.8	604.5	617.6	622.0	608.9	604.5	604.5
65°	6041.1	1831.1	637.3	661.3	613.3	600.2	604.5	600.2	587.1	587.1	584.9
67.5°	5829.4	1593.2	598.0	652.6	622.0	593.6	584.9	578.4	563.1	563.1	558.7
70°	5244.5	1309.5	541.3	624.2	624.2	591.4	558.7	543.4	526.0	532.5	523.8
72.5°	4480.6	1038.9	471.4	576.2	611.1	589.3	530.3	506.3	491.1	497.6	484.5
75°	3629.4	805.3	388.5	499.8	578.4	578.4	502.0	469.2	451.8	451.8	436.5
77.5°	2313.4	595.8	316.5	414.7	519.4	563.1	478.0	427.8	401.6	395.0	384.1
80°	1145.8	419.0	259.7	329.6	443.0	528.2	460.5	379.7	342.6	329.6	309.9
82.5°	608.9	290.3	207.3	257.5	353.6	475.8	438.7	327.4	281.5	261.9	240.1
85°	272.8	179.0	165.9	196.4	268.4	390.7	395.0	268.4	216.1	257.5	189.9
87.5°	100.4	80.8	80.8	100.4	155.0	163.7	279.4	172.4	137.5	93.8	74.2
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)