

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: P399778

Luminaire Tested: **ARCH-L-PA3-190-730-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399778  
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-PA3-190-730-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25380 lumens  
Efficiency: N/A  
Efficacy: 134.3 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

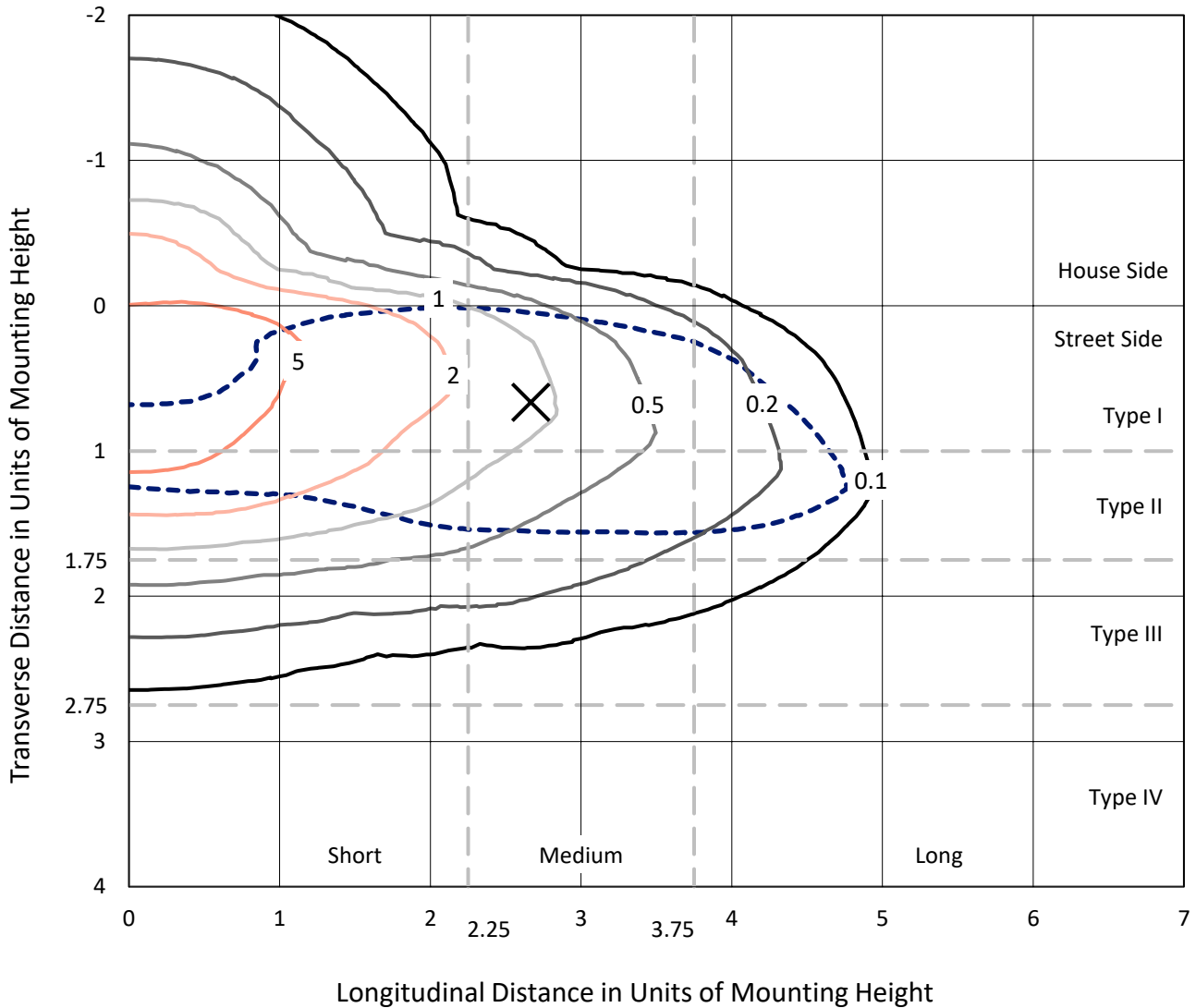
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

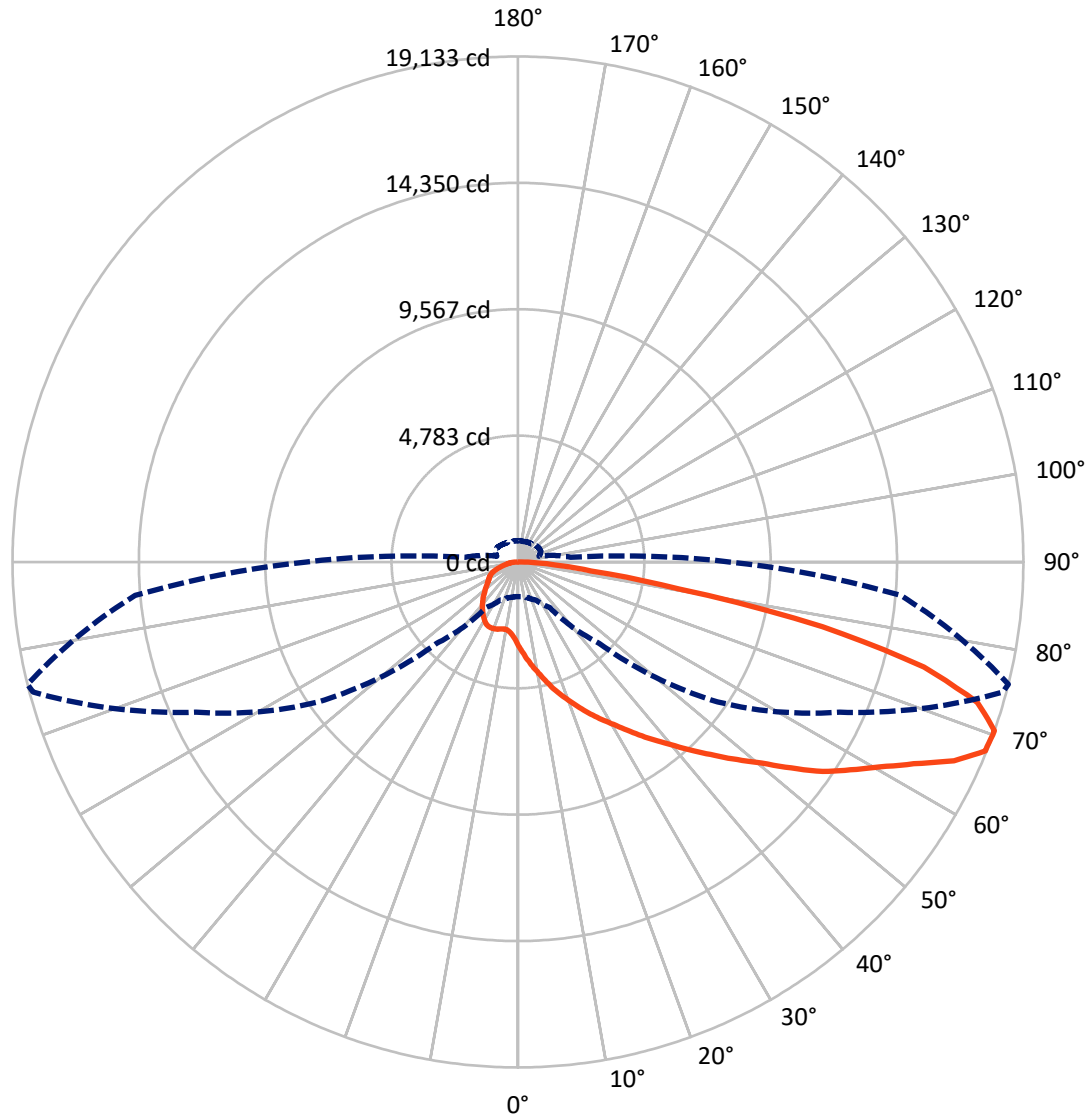
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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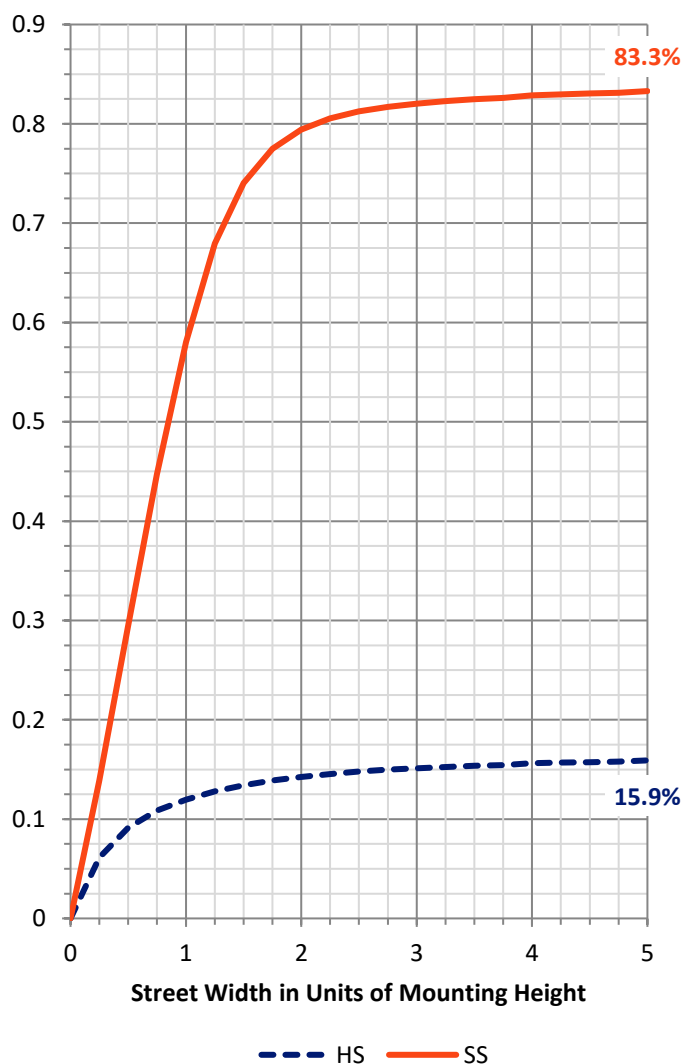
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4143.5	0.0	4143.5
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	21236.5	0.0	21236.5
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	25380.0	0.0	25380.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.8	1.3
10°-20°	1120.8	4.4
20°-30°	2005.3	7.9
30°-40°	3243.8	12.8
40°-50°	4692.7	18.5
50°-60°	5371.1	21.2
60°-70°	4940.8	19.5
70°-80°	3055.3	12.0
80°-90°	620.4	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°	25380.0	100.0
0°-180°	25380.0	100.0

**Coefficient of Utilization**



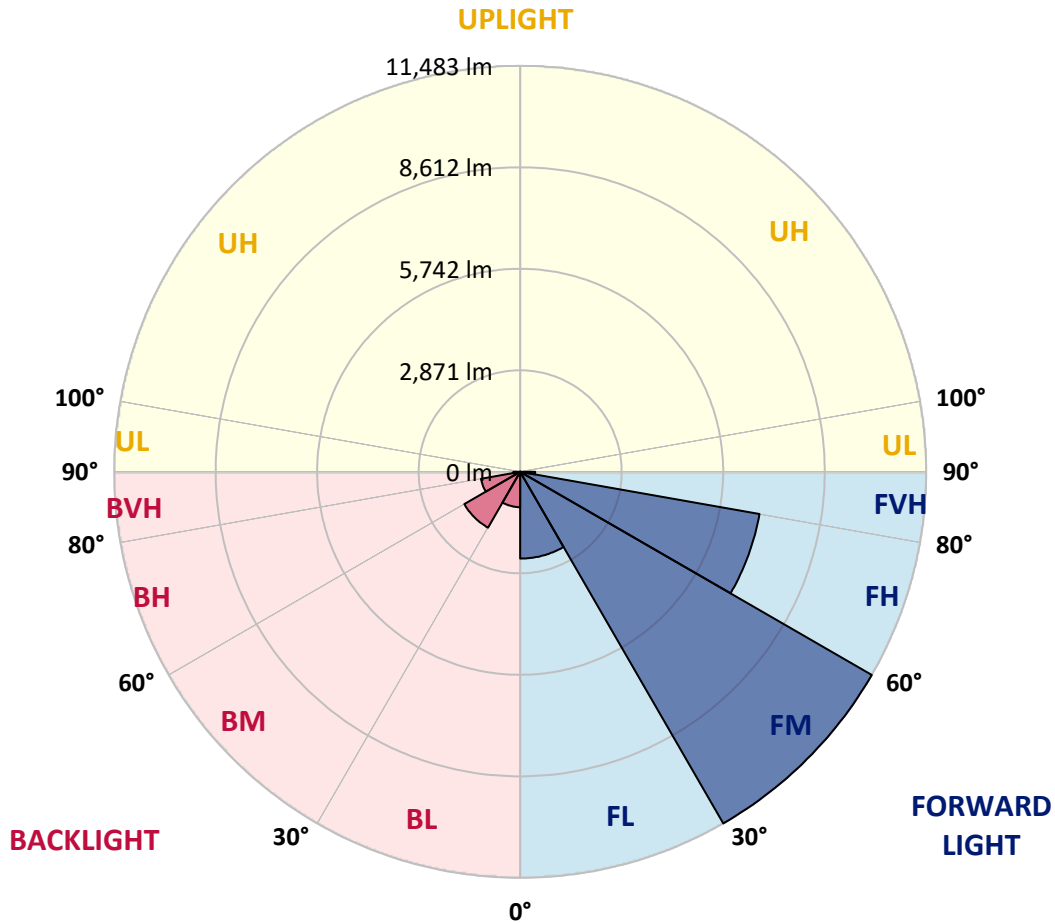
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2455.1	9.7			
FM (30°-60°)	11483.2	45.2			
FH (60°-80°)	6872.2	27.1			G3/7500
FVH (80°-90°)	425.9	1.7			G3/500
BL (0°-30°)	1000.8	3.9	B3/2500		
BM (30°-60°)	1824.4	7.2	B2/2500		
BH (60°-80°)	1123.9	4.4	B3/2500		G3/2500
BVH (80°-90°)	194.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9
2.5°	4044.9	4014.9	4011.6	3964.8	3921.5	3804.6	3721.2	3574.4	3427.5	3424.2	3277.3
5°	4675.7	4645.7	4629.0	4572.3	4498.8	4345.3	4195.1	3968.2	3717.9	3701.2	3424.2
7.5°	5102.9	5076.2	5042.8	5019.5	4949.4	4812.5	4629.0	4358.7	4014.9	3981.5	3594.4
10°	5389.9	5373.2	5366.6	5349.9	5306.5	5196.3	5019.5	4732.4	4311.9	4275.2	3774.6
12.5°	5513.4	5506.7	5536.8	5583.5	5600.2	5556.8	5386.6	5116.3	4639.0	4599.0	3991.5
15°	5369.9	5376.6	5453.3	5613.5	5783.7	5877.2	5777.1	5513.4	5009.5	4952.7	4245.2
17.5°	5303.1	5313.2	5366.6	5520.1	5760.4	6050.7	6097.4	5890.5	5366.6	5286.5	4512.2
20°	5420.0	5433.3	5473.4	5593.5	5760.4	6070.8	6314.4	6251.0	5717.0	5633.5	4769.2
22.5°	5717.0	5733.7	5730.3	5807.1	5920.6	6134.2	6434.5	6591.4	6084.1	5990.7	5036.2
25°	6351.1	6337.7	6224.3	6187.6	6217.6	6354.4	6594.7	6918.5	6467.9	6374.5	5316.5
27.5°	7212.1	7195.5	6988.5	6801.6	6634.8	6694.8	6821.7	7182.1	6858.4	6751.6	5583.5
30°	8133.3	8113.2	7873.0	7569.2	7198.8	7112.0	7095.3	7412.4	7252.2	7138.7	5867.2
32.5°	9031.0	9014.3	8757.4	8403.6	7893.0	7632.7	7472.5	7669.4	7699.4	7589.3	6177.5
35°	9848.7	9848.7	9628.4	9207.9	8630.5	8236.7	7973.1	7986.4	8213.4	8086.5	6531.3
37.5°	10576.3	10572.9	10332.6	9918.8	9364.8	8914.2	8587.2	8370.2	8704.0	8593.8	6901.8
40°	11153.6	11130.3	10953.4	10592.9	10035.6	9588.4	9258.0	8820.8	9251.3	9151.2	7295.6
42.5°	11574.1	11560.8	11440.6	11126.9	10596.3	10175.8	9948.8	9388.1	9872.1	9771.9	7756.1
45°	11737.7	11764.4	11764.4	11467.3	11046.8	10663.0	10562.9	10012.2	10542.9	10442.8	8250.1
47.5°	11474.0	11544.1	11687.6	11707.6	11337.2	11076.9	11110.2	10639.7	11233.7	11180.3	8790.7
50°	10649.7	10779.8	11093.6	11660.9	11454.0	11393.9	11577.5	11280.4	11974.6	11957.9	9448.2
52.5°	8523.7	8840.8	9818.7	10836.6	11373.9	11540.8	12041.4	12001.3	12929.1	12955.8	10305.9
55°	6538.0	6658.1	7789.5	9521.6	10883.3	11494.0	12351.8	12705.5	13963.7	13997.1	11093.6
57.5°	5286.5	5366.6	5984.0	7789.5	9765.3	11240.4	12595.4	13116.0	14758.0	14844.8	11794.4
60°	4188.5	4305.3	4719.1	5960.6	8200.0	10629.7	12765.6	13573.2	15612.4	15742.6	12632.1
62.5°	3113.8	3170.5	3561.0	4415.4	6491.3	9531.6	12675.5	14070.5	16660.4	16817.2	13640.0
65°	2216.0	2266.1	2543.1	3140.5	4799.2	8046.5	12151.5	14441.0	17975.3	18135.5	14654.6
67.5°	1658.7	1678.7	1835.6	2196.0	3234.0	6251.0	11090.2	14377.6	18936.5	19080.0	15061.7
70°	1311.6	1318.3	1395.0	1588.6	2102.6	4352.0	9231.3	13446.4	19006.6	19133.4	14547.8
72.5°	1088.0	1084.7	1128.0	1221.5	1465.1	2753.4	6838.4	11717.6	18105.5	18192.2	13112.7
75°	897.8	904.4	934.5	987.9	1118.0	1815.6	4432.1	9348.1	15972.8	15879.4	11003.4
77.5°	754.3	750.9	764.3	811.0	904.4	1304.9	2596.5	6754.9	11837.8	11791.1	7222.2
80°	607.4	614.1	634.1	674.2	760.9	994.5	1535.2	4215.1	6351.1	6180.9	3450.9
82.5°	407.2	470.6	510.6	557.3	657.5	734.2	974.5	2142.6	2840.1	2796.8	1565.2
85°	193.6	257.0	380.5	433.9	534.0	460.6	660.8	1021.2	1421.7	1405.0	564.0
87.5°	40.0	40.0	203.6	243.6	330.4	196.9	367.1	443.9	687.5	644.1	230.3
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°	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9
2.5°	3190.6	3100.5	2920.2	2776.7	2629.9	2546.4	2443.0	2392.9	2382.9	2356.2	2376.2
5°	3247.3	3070.4	2730.0	2506.4	2356.2	2282.8	2246.1	2232.7	2229.4	2222.7	2222.7
7.5°	3324.1	3053.7	2609.9	2382.9	2286.1	2262.8	2272.8	2292.8	2296.1	2302.8	2299.5
10°	3417.5	3057.1	2543.1	2352.9	2306.2	2309.5	2342.9	2369.6	2382.9	2392.9	2389.6
12.5°	3547.7	3097.1	2533.1	2372.9	2352.9	2366.2	2399.6	2426.3	2439.6	2443.0	2443.0
15°	3717.9	3180.6	2556.5	2416.3	2399.6	2409.6	2429.6	2439.6	2443.0	2439.6	2439.6
17.5°	3904.8	3280.7	2589.8	2443.0	2416.3	2406.3	2399.6	2389.6	2369.6	2356.2	2356.2
20°	4085.0	3370.8	2606.5	2439.6	2392.9	2352.9	2312.8	2262.8	2229.4	2202.7	2202.7
22.5°	4265.2	3454.2	2606.5	2402.9	2329.5	2252.8	2169.3	2089.2	2039.2	2005.8	2005.8
25°	4455.4	3534.3	2586.5	2339.5	2229.4	2119.3	2005.8	1905.7	1855.6	1822.2	1815.6
27.5°	4615.6	3581.0	2533.1	2249.4	2105.9	1965.7	1835.6	1732.1	1695.4	1665.4	1665.4
30°	4785.8	3611.1	2433.0	2132.6	1965.7	1805.5	1672.0	1588.6	1548.6	1505.2	1501.8
32.5°	4976.1	3631.1	2319.5	2009.1	1822.2	1652.0	1538.5	1471.8	1385.0	1338.3	1331.6
35°	5196.3	3657.8	2199.4	1868.9	1678.7	1525.2	1458.4	1348.3	1264.9	1224.8	1221.5
37.5°	5430.0	3677.8	2069.2	1745.5	1548.6	1441.8	1375.0	1244.9	1171.4	1111.4	1104.7
40°	5676.9	3677.8	1935.7	1625.3	1445.1	1405.0	1278.2	1161.4	1037.9	1007.9	1001.2
42.5°	5950.6	3671.2	1802.2	1508.5	1348.3	1321.6	1221.5	1098.0	1034.6	1007.9	1001.2
45°	6241.0	3647.8	1675.4	1375.0	1248.2	1194.8	1118.0	1084.7	1058.0	1058.0	1058.0
47.5°	6571.4	3627.8	1531.9	1254.9	1174.8	1114.7	1058.0	1037.9	1034.6	1044.6	1054.6
50°	6995.2	3621.1	1411.7	1168.1	1118.0	1047.9	1041.3	1024.6	1027.9	1027.9	1027.9
52.5°	7509.2	3561.0	1298.3	1104.7	1061.3	977.9	997.9	1014.6	1021.2	1017.9	1014.6
55°	7886.3	3454.2	1201.5	1061.3	1021.2	951.2	977.9	1004.6	1011.2	1001.2	1001.2
57.5°	8226.7	3304.0	1124.7	1027.9	994.5	934.5	964.5	991.2	984.5	981.2	977.9
60°	8617.2	3160.5	1064.6	1011.2	967.8	927.8	954.5	971.2	961.2	954.5	951.2
62.5°	9041.0	3020.4	1021.2	1011.2	947.8	924.5	944.5	951.2	931.1	924.5	924.5
65°	9238.0	2800.1	974.5	1011.2	937.8	917.8	924.5	917.8	897.8	897.8	894.4
67.5°	8914.2	2436.3	914.5	997.9	951.2	907.8	894.4	884.4	861.1	861.1	854.4
70°	8019.8	2002.4	827.7	954.5	954.5	904.4	854.4	831.0	804.3	814.3	801.0
72.5°	6851.7	1588.6	720.9	881.1	934.5	901.1	811.0	774.3	750.9	760.9	740.9
75°	5550.1	1231.5	594.1	764.3	884.4	884.4	767.6	717.5	690.8	690.8	667.5
77.5°	3537.7	911.1	483.9	634.1	794.3	861.1	730.9	654.1	614.1	604.1	587.4
80°	1752.1	640.8	397.2	503.9	677.5	807.7	704.2	580.7	524.0	503.9	473.9
82.5°	931.1	443.9	317.1	393.8	540.7	727.6	670.8	500.6	430.5	400.5	367.1
85°	417.2	273.7	253.6	300.4	410.5	597.4	604.1	410.5	330.4	393.8	290.4
87.5°	153.5	123.5	123.5	153.5	237.0	250.3	427.2	263.7	210.3	143.5	113.5
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)