

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: P399490

Luminaire Tested: **ARCH-L-PA3-150-730-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399490  
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-PA3-150-730-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21836 lumens  
Efficiency: N/A  
Efficacy: 142.7 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

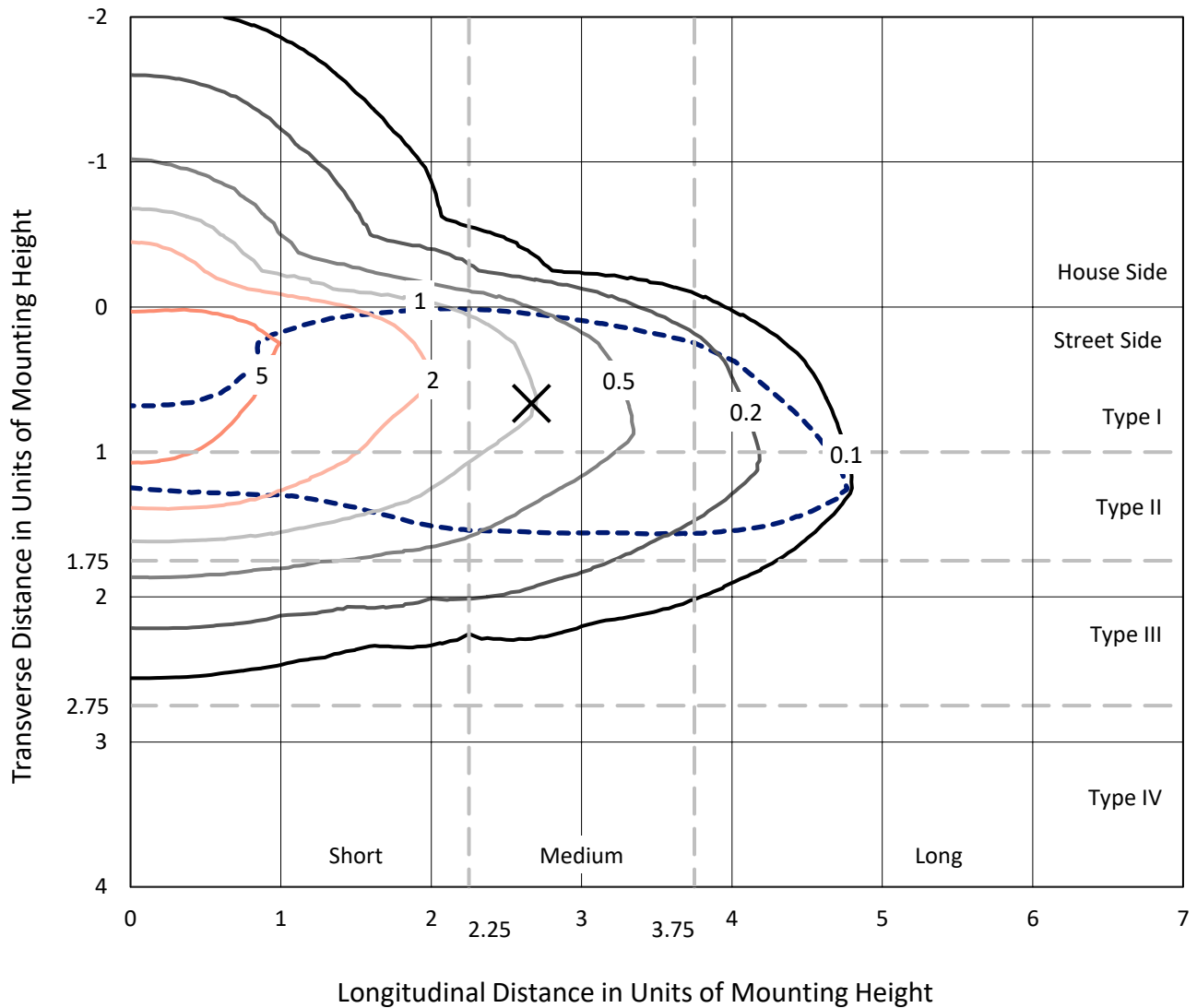
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P399490  
 CATALOG NUMBER: ARCH-L-PA3-150-730-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

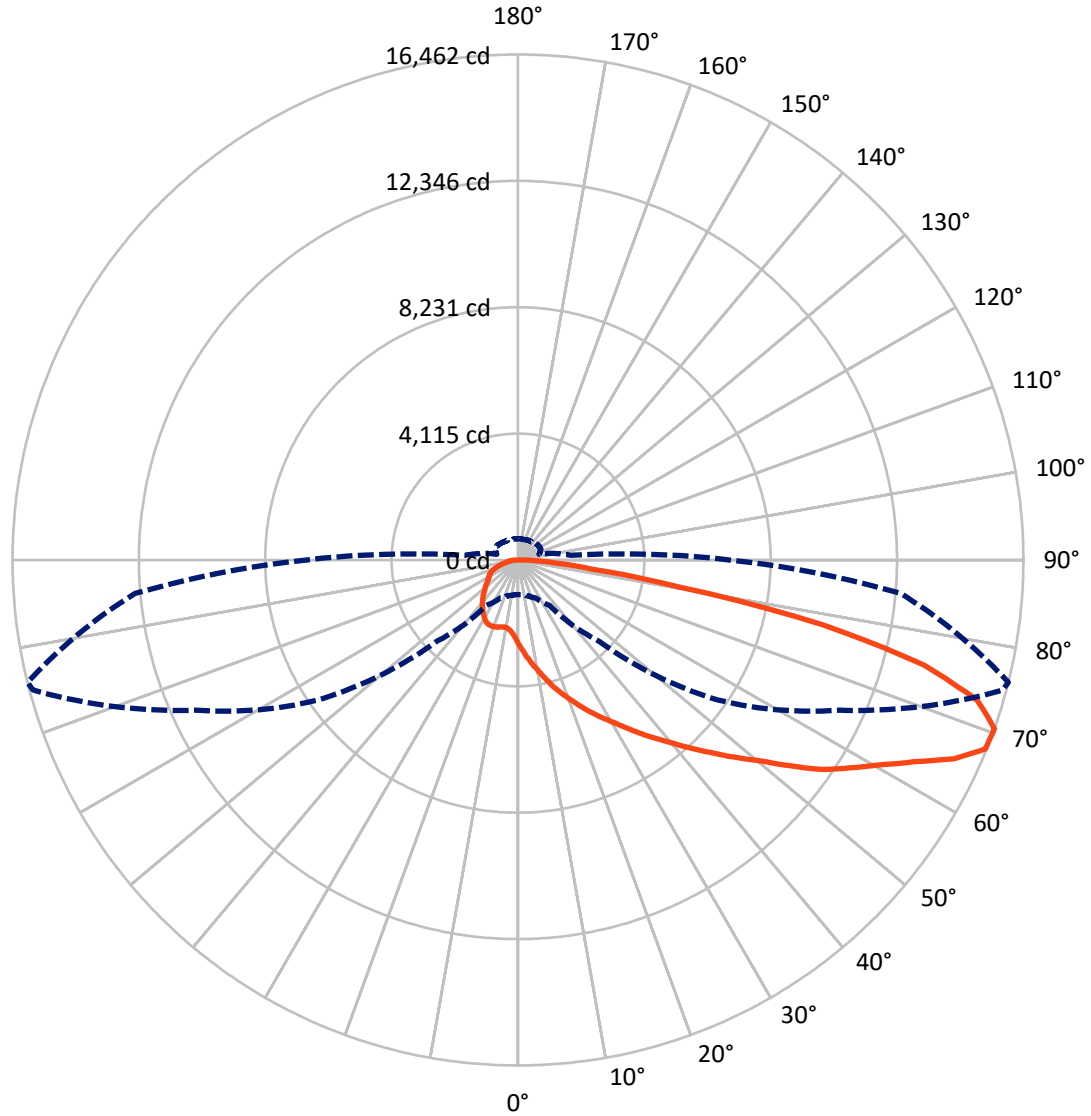
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Medium - N/A

REPORT NUMBER: P399490  
CATALOG NUMBER: ARCH-L-PA3-150-730-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P399490  
 CATALOG NUMBER: ARCH-L-PA3-150-730-U-T2R

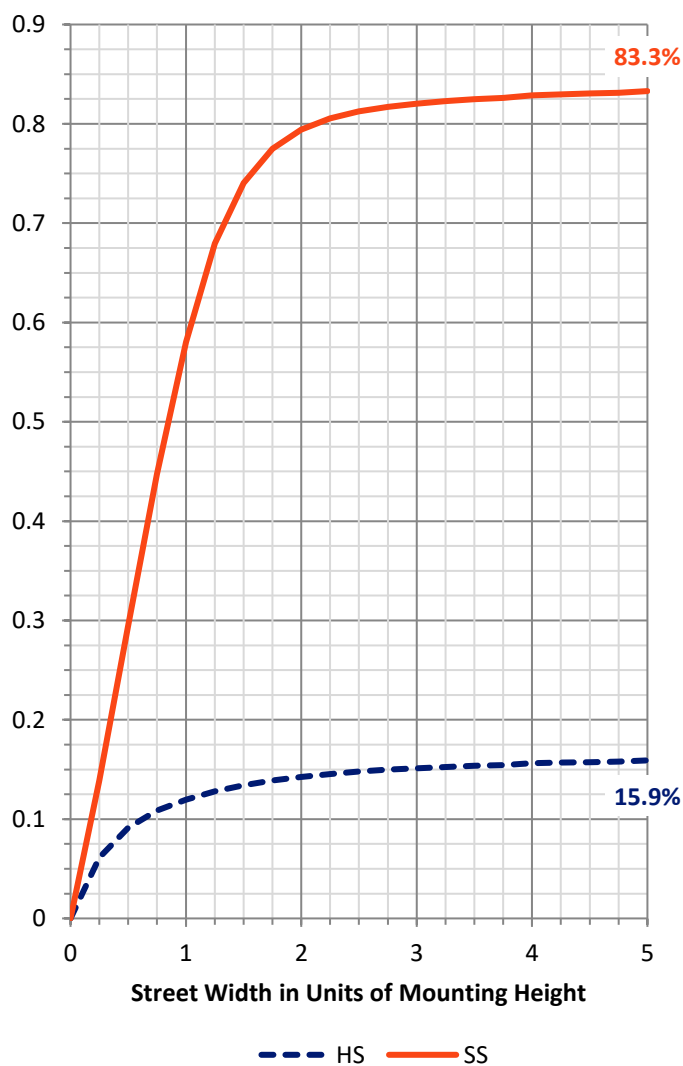
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3564.9	0.0	3564.9
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	18271.1	0.0	18271.1
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	21836.0	0.0	21836.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.7	1.3
10°-20°	964.3	4.4
20°-30°	1725.3	7.9
30°-40°	2790.9	12.8
40°-50°	4037.4	18.5
50°-60°	4621.1	21.2
60°-70°	4250.9	19.5
70°-80°	2628.7	12.0
80°-90°	533.8	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°	21836.0	100.0
0°-180°	21836.0	100.0

**Coefficient of Utilization**



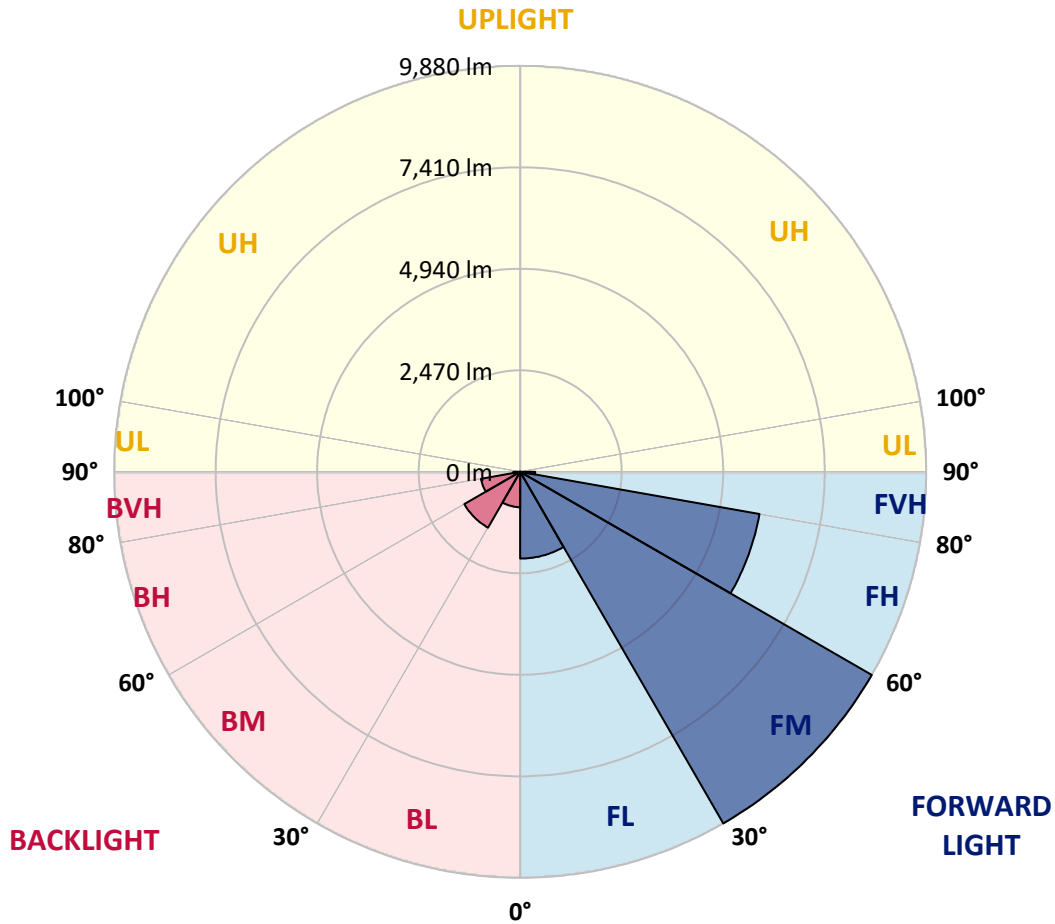
REPORT NUMBER: P399490  
 CATALOG NUMBER: ARCH-L-PA3-150-730-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.3	9.7			
FM (30°-60°)	9879.8	45.2			
FH (60°-80°)	5912.6	27.1			G3/7500
FVH (80°-90°)	366.4	1.7			G3/500
BL (0°-30°)	861.0	3.9	B2/1000		
BM (30°-60°)	1569.6	7.2	B2/2500		
BH (60°-80°)	966.9	4.4	B2/1000		G2/1000
BVH (80°-90°)	167.3	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





REPORT NUMBER: P399490

CATALOG NUMBER: ARCH-L-PA3-150-730-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2730.7	2730.7	2730.7	2730.7	2730.7	2730.7	2730.7	2730.7	2730.7	2730.7	2730.7
2.5°	3480.1	3454.3	3451.4	3411.2	3373.9	3273.4	3201.6	3075.3	2948.9	2946.0	2819.7
5°	4022.8	3997.0	3982.6	3933.8	3870.6	3738.5	3609.3	3414.1	3198.7	3184.4	2946.0
7.5°	4390.3	4367.4	4338.7	4318.6	4258.3	4140.5	3982.6	3750.0	3454.3	3425.6	3092.5
10°	4637.3	4622.9	4617.2	4602.8	4565.5	4470.7	4318.6	4071.6	3709.8	3678.2	3247.5
12.5°	4743.5	4737.8	4763.6	4803.8	4818.2	4780.9	4634.4	4401.8	3991.2	3956.8	3434.2
15°	4620.1	4625.8	4691.8	4829.7	4976.1	5056.5	4970.4	4743.5	4309.9	4261.1	3652.4
17.5°	4562.6	4571.2	4617.2	4749.3	4956.0	5205.8	5246.0	5068.0	4617.2	4548.3	3882.1
20°	4663.1	4674.6	4709.1	4812.4	4956.0	5223.0	5432.7	5378.1	4918.7	4846.9	4103.2
22.5°	4918.7	4933.0	4930.2	4996.2	5093.8	5277.6	5536.0	5671.0	5234.5	5154.1	4332.9
25°	5464.2	5452.8	5355.1	5323.5	5349.4	5467.1	5673.9	5952.4	5564.7	5484.3	4574.1
27.5°	6205.1	6190.7	6012.7	5851.9	5708.3	5760.0	5869.1	6179.2	5900.7	5808.8	4803.8
30°	6997.6	6980.3	6773.6	6512.3	6193.6	6118.9	6104.6	6377.3	6239.5	6141.9	5047.9
32.5°	7770.0	7755.6	7534.5	7230.1	6790.8	6566.9	6429.0	6598.4	6624.3	6529.5	5314.9
35°	8473.5	8473.5	8283.9	7922.1	7425.4	7086.6	6859.7	6871.2	7066.5	6957.4	5619.3
37.5°	9099.4	9096.5	8889.8	8533.8	8057.1	7669.5	7388.1	7201.4	7488.6	7393.8	5938.0
40°	9596.2	9576.1	9423.9	9113.8	8634.2	8249.5	7965.2	7589.1	7959.5	7873.3	6276.8
42.5°	9958.0	9946.5	9843.1	9573.2	9116.6	8754.8	8559.6	8077.2	8493.6	8407.4	6673.1
45°	10098.7	10121.6	10121.6	9866.1	9504.3	9174.1	9087.9	8614.1	9070.7	8984.6	7098.1
47.5°	9871.8	9932.1	10055.6	10072.8	9754.1	9530.1	9558.8	9154.0	9665.1	9619.1	7563.2
50°	9162.6	9274.6	9544.5	10032.6	9854.6	9802.9	9960.8	9705.3	10302.5	10288.2	8128.9
52.5°	7333.5	7606.3	8447.6	9323.4	9785.7	9929.2	10359.9	10325.5	11123.7	11146.7	8866.8
55°	5625.0	5728.4	6701.8	8192.1	9363.6	9889.0	10627.0	10931.4	12013.9	12042.6	9544.5
57.5°	4548.3	4617.2	5148.4	6701.8	8401.7	9670.8	10836.6	11284.5	12697.3	12771.9	10147.5
60°	3603.6	3704.1	4060.1	5128.3	7055.0	9145.4	10983.0	11677.9	13432.3	13544.3	10868.2
62.5°	2679.0	2727.8	3063.8	3798.8	5584.8	8200.7	10905.5	12105.8	14333.9	14468.9	11735.3
65°	1906.6	1949.7	2188.0	2702.0	4129.0	6922.9	10454.7	12424.5	15465.3	15603.1	12608.2
67.5°	1427.1	1444.3	1579.3	1889.4	2782.4	5378.1	9541.6	12369.9	16292.2	16415.7	12958.6
70°	1128.5	1134.2	1200.2	1366.8	1809.0	3744.3	7942.2	11568.8	16352.5	16461.6	12516.4
72.5°	936.1	933.2	970.5	1050.9	1260.5	2368.9	5883.5	10081.4	15577.3	15651.9	11281.7
75°	772.4	778.1	804.0	849.9	961.9	1562.0	3813.2	8042.7	13742.4	13662.0	9466.9
77.5°	648.9	646.1	657.5	697.7	778.1	1122.7	2233.9	5811.7	10184.8	10144.6	6213.7
80°	522.6	528.3	545.6	580.0	654.7	855.7	1320.8	3626.6	5464.2	5317.8	2969.0
82.5°	350.3	404.9	439.3	479.5	565.7	631.7	838.4	1843.4	2443.5	2406.2	1346.7
85°	166.5	221.1	327.3	373.3	459.4	396.3	568.5	878.6	1223.2	1208.9	485.3
87.5°	34.5	34.5	175.2	209.6	284.3	169.4	315.9	381.9	591.5	554.2	198.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399490

CATALOG NUMBER: ARCH-L-PA3-150-730-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2730.7	2730.7	2730.7	2730.7	2730.7	2730.7	2730.7	2730.7	2730.7	2730.7	2730.7
2.5°	2745.0	2667.5	2512.5	2389.0	2262.6	2190.9	2101.9	2058.8	2050.2	2027.2	2044.4
5°	2793.9	2641.7	2348.8	2156.4	2027.2	1964.0	1932.4	1921.0	1918.1	1912.3	1912.3
7.5°	2859.9	2627.3	2245.4	2050.2	1966.9	1946.8	1955.4	1972.6	1975.5	1981.3	1978.4
10°	2940.3	2630.2	2188.0	2024.3	1984.1	1987.0	2015.7	2038.7	2050.2	2058.8	2055.9
12.5°	3052.3	2664.6	2179.4	2041.6	2024.3	2035.8	2064.5	2087.5	2099.0	2101.9	2101.9
15°	3198.7	2736.4	2199.5	2078.9	2064.5	2073.1	2090.4	2099.0	2101.9	2099.0	2099.0
17.5°	3359.5	2822.6	2228.2	2101.9	2078.9	2070.3	2064.5	2055.9	2038.7	2027.2	2027.2
20°	3514.6	2900.1	2242.6	2099.0	2058.8	2024.3	1989.9	1946.8	1918.1	1895.1	1895.1
22.5°	3669.6	2971.9	2242.6	2067.4	2004.2	1938.2	1866.4	1797.5	1754.4	1725.7	1725.7
25°	3833.3	3040.8	2225.3	2012.8	1918.1	1823.3	1725.7	1639.6	1596.5	1567.8	1562.0
27.5°	3971.1	3081.0	2179.4	1935.3	1811.8	1691.2	1579.3	1490.2	1458.7	1432.8	1432.8
30°	4117.6	3106.8	2093.2	1834.8	1691.2	1553.4	1438.6	1366.8	1332.3	1295.0	1292.1
32.5°	4281.2	3124.1	1995.6	1728.6	1567.8	1421.3	1323.7	1266.3	1191.6	1151.4	1145.7
35°	4470.7	3147.0	1892.2	1608.0	1444.3	1312.2	1254.8	1160.0	1088.3	1053.8	1050.9
37.5°	4671.7	3164.3	1780.3	1501.7	1332.3	1240.4	1183.0	1071.0	1007.9	956.2	950.4
40°	4884.2	3164.3	1665.4	1398.4	1243.3	1208.9	1099.7	999.2	893.0	867.2	861.4
42.5°	5119.7	3158.5	1550.5	1297.9	1160.0	1137.1	1050.9	944.7	890.1	867.2	861.4
45°	5369.5	3138.4	1441.4	1183.0	1073.9	1028.0	961.9	933.2	910.2	910.2	910.2
47.5°	5653.8	3121.2	1318.0	1079.6	1010.7	959.0	910.2	893.0	890.1	898.7	907.4
50°	6018.4	3115.5	1214.6	1005.0	961.9	901.6	895.9	881.5	884.4	884.4	884.4
52.5°	6460.6	3063.8	1117.0	950.4	913.1	841.3	858.5	872.9	878.6	875.8	872.9
55°	6785.1	2971.9	1033.7	913.1	878.6	818.3	841.3	864.3	870.0	861.4	861.4
57.5°	7078.0	2842.7	967.7	884.4	855.7	804.0	829.8	852.8	847.1	844.2	841.3
60°	7413.9	2719.2	916.0	870.0	832.7	798.2	821.2	835.6	827.0	821.2	818.3
62.5°	7778.6	2598.6	878.6	870.0	815.5	795.4	812.6	818.3	801.1	795.4	795.4
65°	7948.0	2409.1	838.4	870.0	806.9	789.6	795.4	789.6	772.4	772.4	769.5
67.5°	7669.5	2096.1	786.8	858.5	818.3	781.0	769.5	760.9	740.8	740.8	735.1
70°	6899.9	1722.8	712.1	821.2	821.2	778.1	735.1	715.0	692.0	700.6	689.1
72.5°	5894.9	1366.8	620.2	758.0	804.0	775.3	697.7	666.2	646.1	654.7	637.4
75°	4775.1	1059.5	511.1	657.5	760.9	760.9	660.4	617.3	594.4	594.4	574.3
77.5°	3043.7	783.9	416.4	545.6	683.4	740.8	628.8	562.8	528.3	519.7	505.4
80°	1507.5	551.3	341.7	433.6	582.9	694.9	605.9	499.6	450.8	433.6	407.7
82.5°	801.1	381.9	272.8	338.8	465.2	626.0	577.1	430.7	370.4	344.6	315.9
85°	358.9	235.5	218.2	258.4	353.2	514.0	519.7	353.2	284.3	338.8	249.8
87.5°	132.1	106.2	106.2	132.1	203.9	215.4	367.5	226.8	180.9	123.5	97.6
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)