

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: P400390

Luminaire Tested: **ARCH-L-PA3-270-827-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400390
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-PA3-270-827-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26125 lumens
Efficiency: N/A
Efficacy: 95.7 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

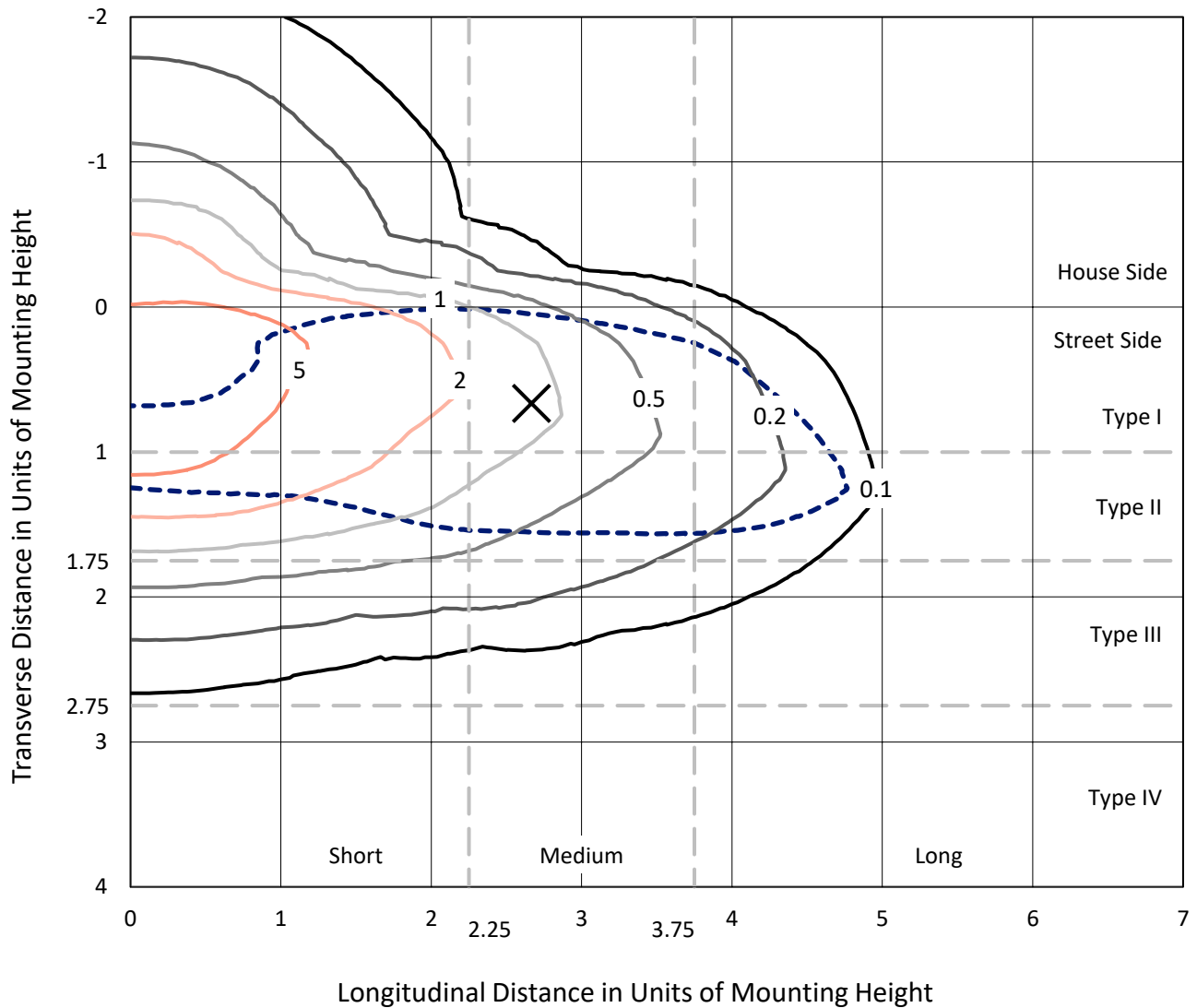
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

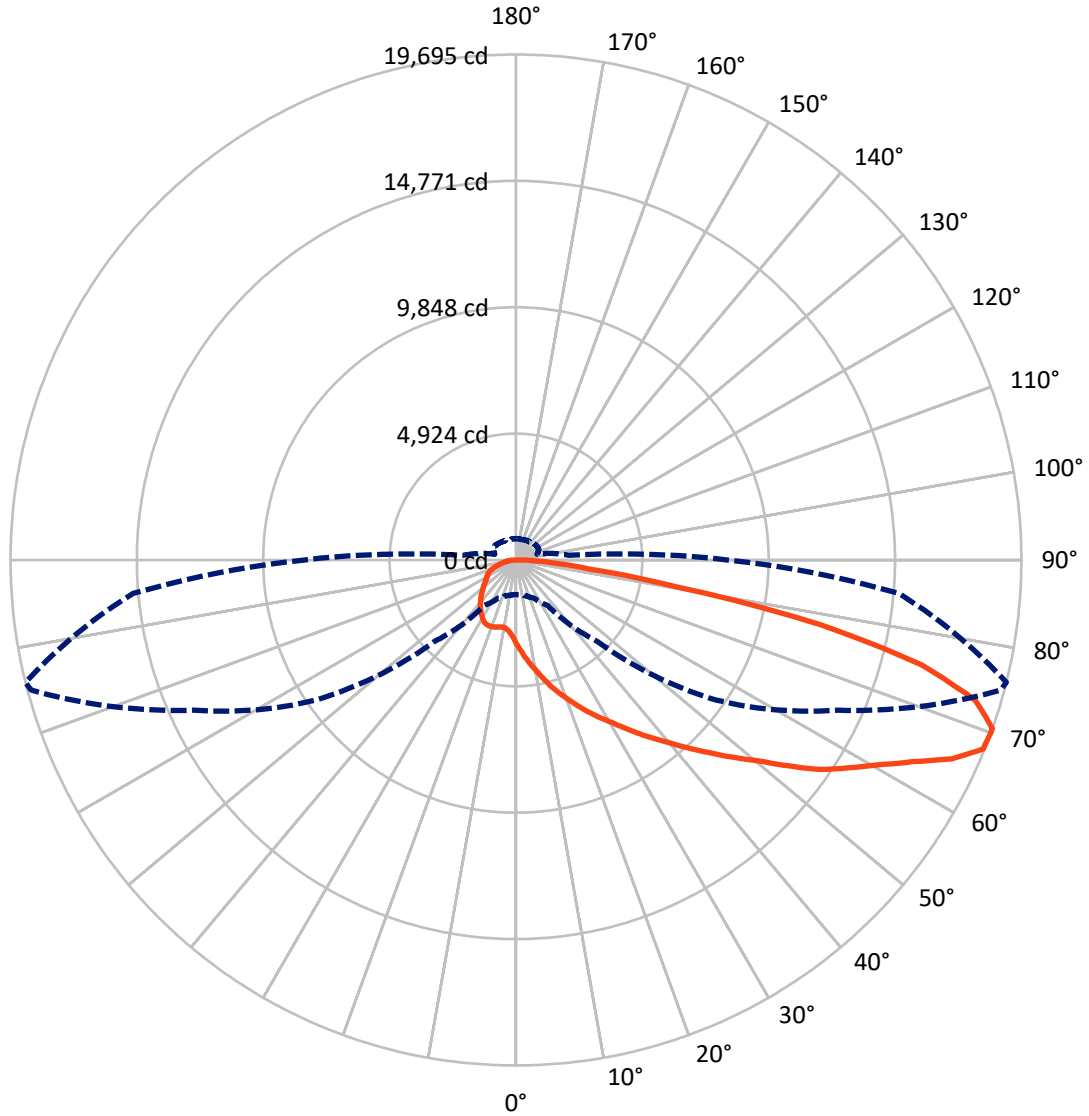
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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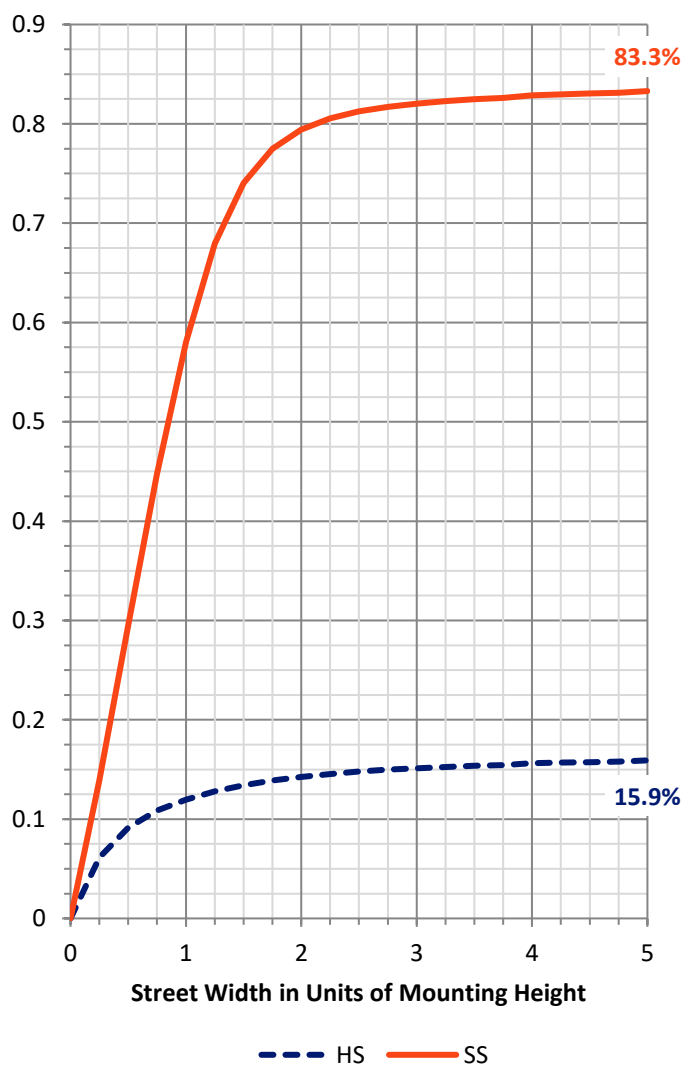
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4265.2	0.0	4265.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	21859.8	0.0	21859.8
	% Fixture	83.7	0.0	83.7
Total	Lumens	26125.0	0.0	26125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.5	1.3
10°-20°	1153.7	4.4
20°-30°	2064.2	7.9
30°-40°	3339.1	12.8
40°-50°	4830.5	18.5
50°-60°	5528.7	21.2
60°-70°	5085.8	19.5
70°-80°	3145.0	12.0
80°-90°	638.6	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°	26125.0	100.0
0°-180°	26125.0	100.0

Coefficient of Utilization



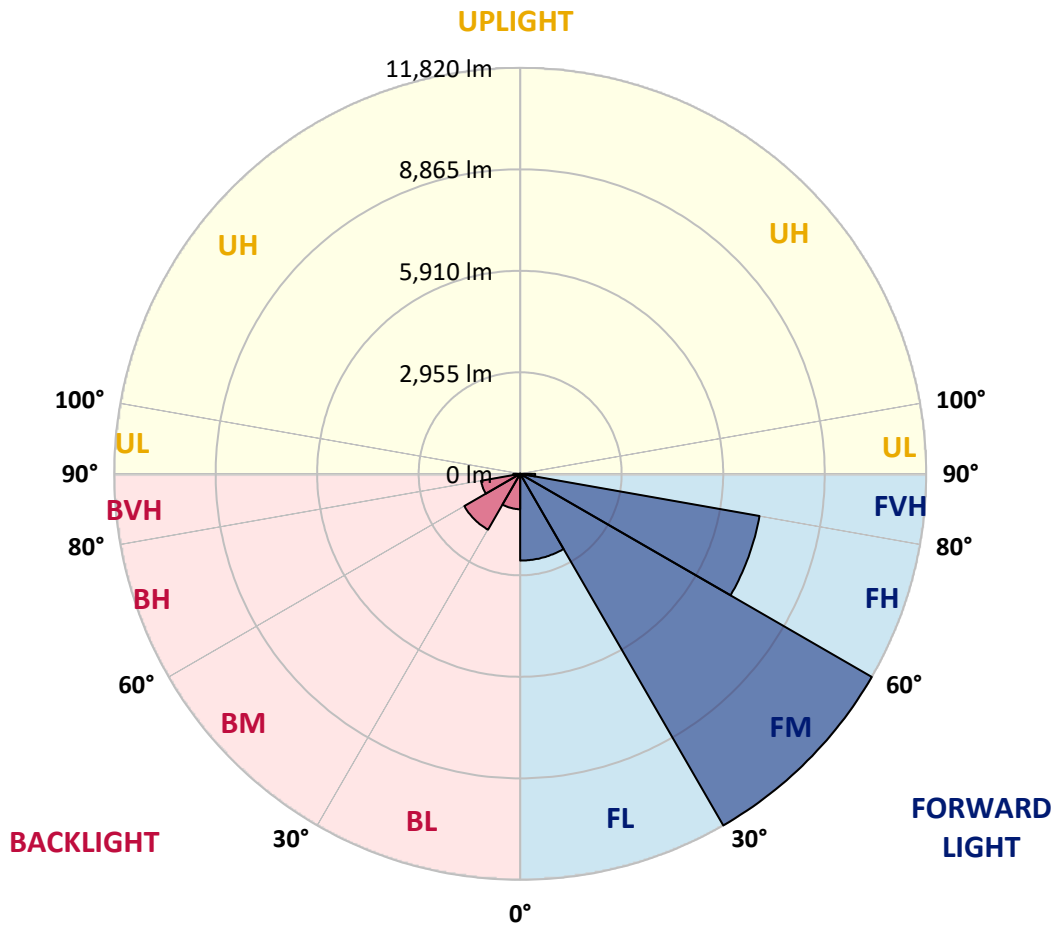
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2527.2	9.7			
FM (30°-60°)	11820.3	45.2			
FH (60°-80°)	7073.9	27.1			G3/7500
FVH (80°-90°)	438.4	1.7			G3/500
BL (0°-30°)	1030.2	3.9	B3/2500		
BM (30°-60°)	1877.9	7.2	B2/2500		
BH (60°-80°)	1156.9	4.4	B3/2500		G3/2500
BVH (80°-90°)	200.2	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0
2.5°	4163.7	4132.8	4129.3	4081.2	4036.6	3916.3	3830.4	3679.3	3528.1	3524.7	3373.5
5°	4813.0	4782.0	4764.9	4706.5	4630.9	4472.9	4318.3	4084.7	3827.0	3809.8	3524.7
7.5°	5252.7	5225.2	5190.9	5166.8	5094.7	4953.8	4764.9	4486.6	4132.8	4098.4	3699.9
10°	5548.1	5531.0	5524.1	5506.9	5462.2	5348.9	5166.8	4871.4	4438.5	4400.7	3885.4
12.5°	5675.2	5668.4	5699.3	5747.4	5764.6	5719.9	5544.7	5266.4	4775.2	4733.9	4108.7
15°	5527.5	5534.4	5613.4	5778.3	5953.5	6049.7	5946.6	5675.2	5156.5	5098.1	4369.8
17.5°	5458.8	5469.1	5524.1	5682.1	5929.5	6228.3	6276.4	6063.4	5524.1	5441.6	4644.6
20°	5579.1	5592.8	5634.0	5757.7	5929.5	6248.9	6499.7	6434.5	5884.8	5798.9	4909.2
22.5°	5884.8	5902.0	5898.5	5977.6	6094.4	6314.2	6623.4	6784.9	6262.7	6166.5	5184.0
25°	6537.5	6523.8	6407.0	6369.2	6400.1	6541.0	6788.3	7121.5	6657.8	6561.6	5472.6
27.5°	7423.8	7406.7	7193.7	7001.3	6829.5	6891.4	7021.9	7392.9	7059.7	6949.8	5747.4
30°	8372.0	8351.4	8104.1	7791.4	7410.1	7320.8	7303.6	7630.0	7465.1	7348.3	6039.4
32.5°	9296.1	9279.0	9014.4	8650.3	8124.7	7856.7	7691.8	7894.5	7925.4	7812.0	6358.9
35°	10137.8	10137.8	9911.1	9478.2	8883.9	8478.5	8207.1	8220.9	8454.5	8323.9	6723.0
37.5°	10886.7	10883.3	10635.9	10209.9	9639.7	9175.9	8839.2	8615.9	8959.5	8846.1	7104.4
40°	11481.0	11457.0	11274.9	10903.9	10330.2	9869.8	9529.7	9079.7	9522.9	9419.8	7509.7
42.5°	11913.9	11900.1	11776.5	11453.5	10907.3	10474.5	10240.9	9663.7	10161.8	10058.8	7983.8
45°	12082.2	12109.7	12109.7	11804.0	11371.1	10976.0	10873.0	10306.1	10852.4	10749.3	8492.3
47.5°	11810.8	11883.0	12030.7	12051.3	11670.0	11402.0	11436.4	10952.0	11563.5	11508.5	9048.8
50°	10962.3	11096.3	11419.2	12003.2	11790.2	11728.4	11917.3	11611.6	12326.1	12309.0	9725.6
52.5°	8774.0	9100.3	10106.9	11154.7	11707.8	11879.5	12394.8	12353.6	13308.6	13336.1	10608.4
55°	6729.9	6853.6	8018.2	9801.1	11202.8	11831.4	12714.3	13078.5	14373.6	14408.0	11419.2
57.5°	5441.6	5524.1	6159.6	8018.2	10051.9	11570.3	12965.1	13501.0	15191.2	15280.6	12140.6
60°	4311.4	4431.6	4857.6	6135.6	8440.7	10941.7	13140.3	13971.7	16070.7	16204.7	13002.9
62.5°	3205.2	3263.6	3665.5	4545.0	6681.8	9811.4	13047.6	14483.5	17149.4	17310.9	14040.4
65°	2281.1	2332.6	2617.8	3232.7	4940.1	8282.7	12508.2	14864.9	18502.9	18667.8	15084.7
67.5°	1707.4	1728.0	1889.5	2260.5	3328.9	6434.5	11415.8	14799.6	19492.3	19640.0	15503.9
70°	1350.1	1357.0	1436.0	1635.2	2164.3	4479.7	9502.3	13841.1	19564.5	19695.0	14974.8
72.5°	1119.9	1116.5	1161.2	1257.3	1508.1	2834.2	7039.1	12061.6	18636.9	18726.2	13497.6
75°	924.1	931.0	961.9	1016.9	1150.9	1868.8	4562.2	9622.5	16441.7	16345.5	11326.4
77.5°	776.4	773.0	786.7	834.8	931.0	1343.2	2672.7	6953.2	12185.3	12137.2	7434.2
80°	625.2	632.1	652.7	693.9	783.3	1023.7	1580.3	4338.9	6537.5	6362.3	3552.2
82.5°	419.1	484.4	525.6	573.7	676.8	755.8	1003.1	2205.5	2923.5	2878.8	1611.2
85°	199.3	264.5	391.6	446.6	549.7	474.1	680.2	1051.2	1463.5	1446.3	580.6
87.5°	41.2	41.2	209.6	250.8	340.1	202.7	377.9	456.9	707.7	663.0	237.0
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°	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0
2.5°	3284.2	3191.5	3006.0	2858.2	2707.1	2621.2	2514.7	2463.2	2452.9	2425.4	2446.0
5°	3342.6	3160.5	2810.1	2580.0	2425.4	2349.8	2312.0	2298.3	2294.8	2288.0	2288.0
7.5°	3421.6	3143.4	2686.5	2452.9	2353.2	2329.2	2339.5	2360.1	2363.5	2370.4	2367.0
10°	3517.8	3146.8	2617.8	2421.9	2373.8	2377.3	2411.6	2439.1	2452.9	2463.2	2459.7
12.5°	3651.8	3188.0	2607.5	2442.6	2421.9	2435.7	2470.0	2497.5	2511.3	2514.7	2514.7
15°	3827.0	3273.9	2631.5	2487.2	2470.0	2480.3	2501.0	2511.3	2514.7	2511.3	2511.3
17.5°	4019.4	3377.0	2665.9	2514.7	2487.2	2476.9	2470.0	2459.7	2439.1	2425.4	2425.4
20°	4204.9	3469.7	2683.0	2511.3	2463.2	2421.9	2380.7	2329.2	2294.8	2267.3	2267.3
22.5°	4390.4	3555.6	2683.0	2473.5	2397.9	2318.9	2233.0	2150.5	2099.0	2064.7	2064.7
25°	4586.2	3638.1	2662.4	2408.2	2294.8	2181.5	2064.7	1961.6	1910.1	1875.7	1868.8
27.5°	4751.1	3686.2	2607.5	2315.4	2167.7	2023.4	1889.5	1783.0	1745.2	1714.3	1714.3
30°	4926.3	3717.1	2504.4	2195.2	2023.4	1858.5	1721.1	1635.2	1594.0	1549.4	1545.9
32.5°	5122.1	3737.7	2387.6	2068.1	1875.7	1700.5	1583.7	1515.0	1425.7	1377.6	1370.7
35°	5348.9	3765.2	2263.9	1923.8	1728.0	1570.0	1501.3	1387.9	1302.0	1260.8	1257.3
37.5°	5589.4	3785.8	2129.9	1796.7	1594.0	1484.1	1415.4	1281.4	1205.8	1144.0	1137.1
40°	5843.6	3785.8	1992.5	1673.0	1487.5	1446.3	1315.7	1195.5	1068.4	1037.5	1030.6
42.5°	6125.3	3778.9	1855.1	1552.8	1387.9	1360.4	1257.3	1130.2	1065.0	1037.5	1030.6
45°	6424.2	3754.9	1724.6	1415.4	1284.8	1229.9	1150.9	1116.5	1089.0	1089.0	1089.0
47.5°	6764.3	3734.3	1576.8	1291.7	1209.3	1147.4	1089.0	1068.4	1065.0	1075.3	1085.6
50°	7200.5	3727.4	1453.2	1202.4	1150.9	1078.7	1071.8	1054.7	1058.1	1058.1	1058.1
52.5°	7729.6	3665.5	1336.4	1137.1	1092.4	1006.6	1027.2	1044.4	1051.2	1047.8	1044.4
55°	8117.8	3555.6	1236.7	1092.4	1051.2	979.1	1006.6	1034.0	1040.9	1030.6	1030.6
57.5°	8468.2	3401.0	1157.7	1058.1	1023.7	961.9	992.8	1020.3	1013.4	1010.0	1006.6
60°	8870.1	3253.3	1095.9	1040.9	996.3	955.0	982.5	999.7	989.4	982.5	979.1
62.5°	9306.4	3109.0	1051.2	1040.9	975.6	951.6	972.2	979.1	958.5	951.6	951.6
65°	9509.1	2882.3	1003.1	1040.9	965.3	944.7	951.6	944.7	924.1	924.1	920.7
67.5°	9175.9	2507.8	941.3	1027.2	979.1	934.4	920.7	910.4	886.3	886.3	879.5
70°	8255.2	2061.2	852.0	982.5	982.5	931.0	879.5	855.4	827.9	838.2	824.5
72.5°	7052.8	1635.2	742.0	906.9	961.9	927.6	834.8	797.0	773.0	783.3	762.7
75°	5713.0	1267.7	611.5	786.7	910.4	910.4	790.1	738.6	711.1	711.1	687.1
77.5°	3641.5	937.9	498.1	652.7	817.6	886.3	752.3	673.3	632.1	621.8	604.6
80°	1803.6	659.6	408.8	518.7	697.4	831.4	724.9	597.8	539.4	518.7	487.8
82.5°	958.5	456.9	326.4	405.4	556.5	748.9	690.5	515.3	443.2	412.2	377.9
85°	429.4	281.7	261.1	309.2	422.6	614.9	621.8	422.6	340.1	405.4	298.9
87.5°	158.0	127.1	127.1	158.0	243.9	257.7	439.7	271.4	216.4	147.7	116.8
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)