

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: P399994

Luminaire Tested: **ARCH-L-PA3-220-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399994
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-PA3-220-730-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28384 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

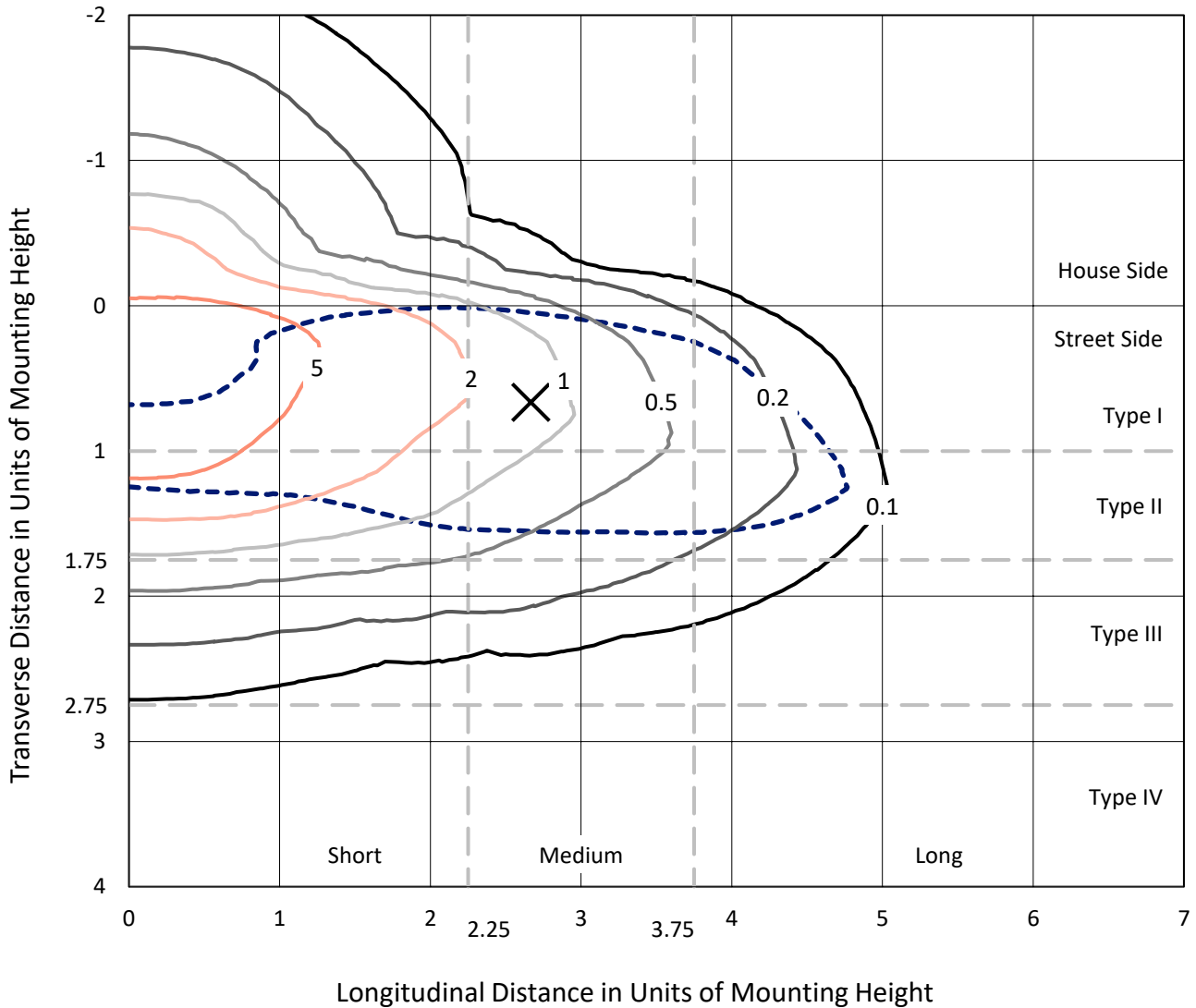
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

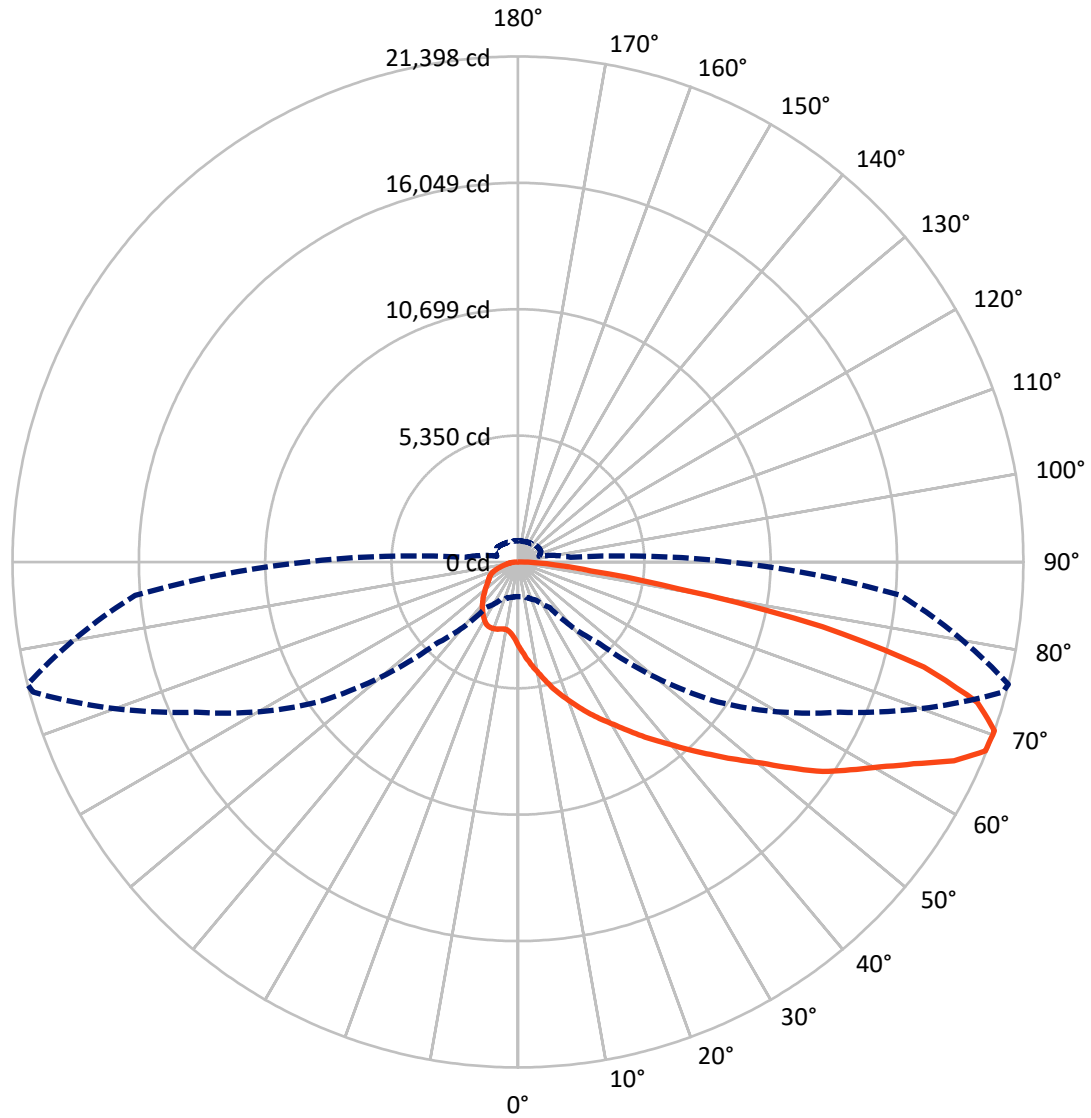
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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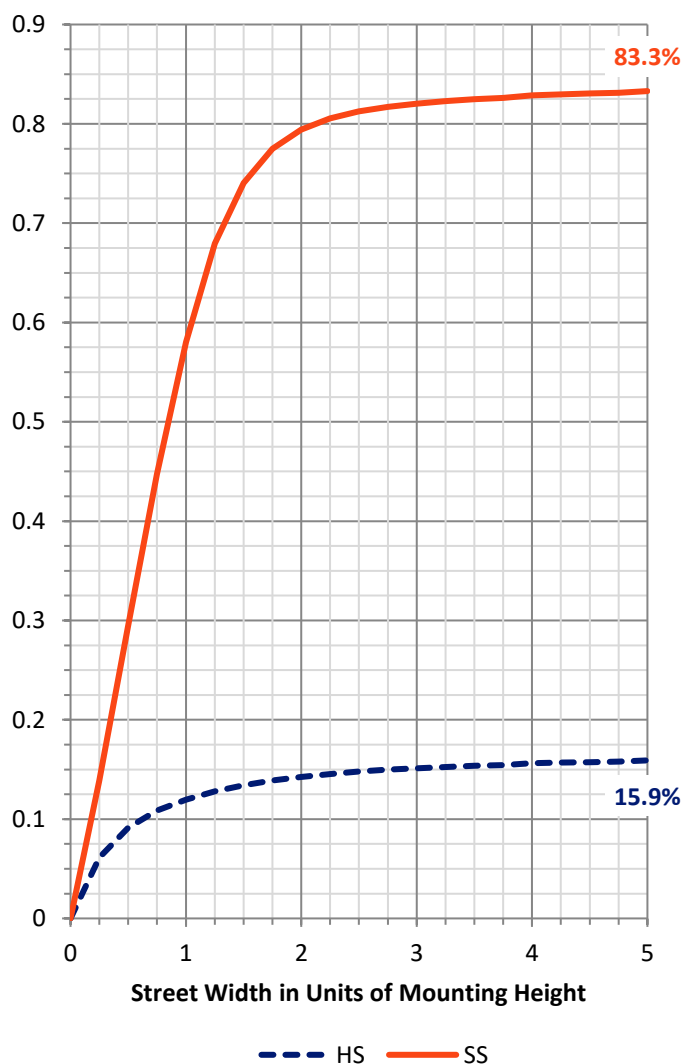
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4634.0	0.0	4634.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	23750.0	0.0	23750.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	28384.0	0.0	28384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.8	1.3
10°-20°	1253.5	4.4
20°-30°	2242.6	7.9
30°-40°	3627.8	12.8
40°-50°	5248.1	18.5
50°-60°	6006.8	21.2
60°-70°	5525.6	19.5
70°-80°	3416.9	12.0
80°-90°	693.9	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°	28384.0	100.0
0°-180°	28384.0	100.0

Coefficient of Utilization



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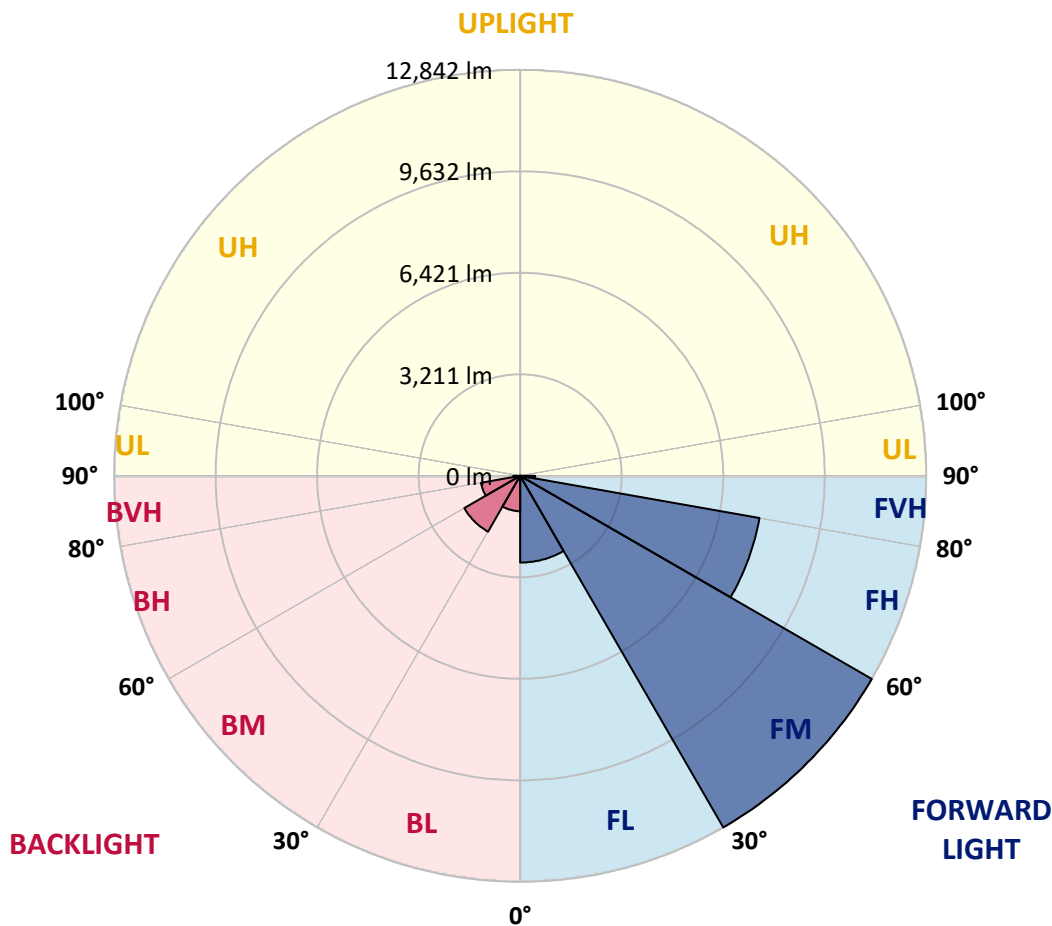
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2745.7	9.7			
FM (30°-60°)	12842.4	45.2			
FH (60°-80°)	7685.6	27.1			G4/12000
FVH (80°-90°)	476.3	1.7			G3/500
BL (0°-30°)	1119.2	3.9	B3/2500		
BM (30°-60°)	2040.3	7.2	B2/2500		
BH (60°-80°)	1256.9	4.4	B3/2500		G3/2500
BVH (80°-90°)	217.5	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5
2.5°	4523.7	4490.1	4486.4	4434.1	4385.6	4255.0	4161.7	3997.4	3833.2	3829.5	3665.2
5°	5229.1	5195.5	5176.9	5113.4	5031.3	4859.6	4691.7	4437.9	4157.9	4139.3	3829.5
7.5°	5706.9	5677.0	5639.7	5613.6	5535.2	5382.2	5176.9	4874.6	4490.1	4452.8	4019.8
10°	6027.9	6009.2	6001.7	5983.1	5934.6	5811.4	5613.6	5292.6	4822.3	4781.2	4221.4
12.5°	6166.0	6158.5	6192.1	6244.4	6263.0	6214.5	6024.1	5721.8	5188.1	5143.3	4464.0
15°	6005.5	6012.9	6098.8	6277.9	6468.3	6572.8	6460.8	6166.0	5602.4	5538.9	4747.7
17.5°	5930.8	5942.0	6001.7	6173.4	6442.2	6766.9	6819.1	6587.7	6001.7	5912.2	5046.2
20°	6061.5	6076.4	6121.2	6255.6	6442.2	6789.3	7061.8	6990.8	6393.7	6300.3	5333.6
22.5°	6393.7	6412.3	6408.6	6494.4	6621.3	6860.2	7196.1	7371.5	6804.2	6699.7	5632.2
25°	7102.8	7087.9	6961.0	6919.9	6953.5	7106.5	7375.3	7737.3	7233.4	7128.9	5945.8
27.5°	8065.8	8047.1	7815.7	7606.7	7420.1	7487.3	7629.1	8032.2	7670.1	7550.7	6244.4
30°	9095.9	9073.5	8804.8	8465.2	8050.9	7953.8	7935.1	8289.7	8110.6	7983.7	6561.6
32.5°	10100.0	10081.3	9793.9	9398.3	8827.2	8536.1	8356.9	8577.1	8610.7	8487.5	6908.7
35°	11014.4	11014.4	10768.1	10297.8	9652.1	9211.6	8916.8	8931.7	9185.5	9043.7	7304.4
37.5°	11828.1	11824.3	11555.6	11092.8	10473.2	9969.3	9603.5	9360.9	9734.2	9611.0	7718.7
40°	12473.8	12447.7	12249.8	11846.7	11223.4	10723.3	10353.8	9864.8	10346.3	10234.3	8159.1
42.5°	12944.1	12929.1	12794.8	12443.9	11850.5	11380.2	11126.4	10499.3	11040.5	10928.6	8674.2
45°	13127.0	13156.8	13156.8	12824.6	12354.3	11925.1	11813.1	11197.3	11790.7	11678.8	9226.6
47.5°	12832.1	12910.5	13071.0	13093.4	12679.1	12387.9	12425.3	11899.0	12563.4	12503.6	9831.2
50°	11910.2	12055.7	12406.6	13041.1	12809.7	12742.5	12947.8	12615.6	13392.0	13373.3	10566.5
52.5°	9532.6	9887.2	10980.8	12119.2	12720.1	12906.7	13466.6	13421.8	14459.4	14489.3	11525.7
55°	7311.8	7446.2	8711.5	10648.6	12171.5	12854.5	13813.7	14209.4	15616.5	15653.8	12406.6
57.5°	5912.2	6001.7	6692.2	8711.5	10921.1	12570.8	14086.2	14668.4	16504.8	16601.8	13190.4
60°	4684.2	4814.8	5277.7	6666.1	9170.6	11887.8	14276.5	15179.8	17460.3	17605.9	14127.2
62.5°	3482.4	3545.8	3982.5	4938.0	7259.6	10659.8	14175.8	15735.9	18632.3	18807.7	15254.4
65°	2478.3	2534.3	2844.1	3512.2	5367.2	8998.9	13589.8	16150.2	20102.9	20282.0	16389.1
67.5°	1855.0	1877.4	2052.8	2455.9	3616.7	6990.8	12402.9	16079.3	21177.8	21338.3	16844.5
70°	1466.8	1474.3	1560.2	1776.6	2351.4	4867.1	10323.9	15038.0	21256.2	21398.0	16269.7
72.5°	1216.8	1213.0	1261.6	1366.1	1638.5	3079.3	7647.7	13104.6	20248.4	20345.5	14664.7
75°	1004.0	1011.5	1045.1	1104.8	1250.4	2030.4	4956.7	10454.5	17863.4	17758.9	12305.8
77.5°	843.5	839.8	854.7	907.0	1011.5	1459.4	2903.8	7554.4	13238.9	13186.7	8077.0
80°	679.3	686.8	709.2	754.0	851.0	1112.3	1716.9	4714.1	7102.8	6912.5	3859.3
82.5°	455.4	526.3	571.1	623.3	735.3	821.1	1089.9	2396.2	3176.3	3127.8	1750.5
85°	216.5	287.4	425.5	485.2	597.2	515.1	739.0	1142.1	1590.0	1571.4	630.8
87.5°	44.8	44.8	227.7	272.5	369.5	220.2	410.6	496.4	768.9	720.4	257.5
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°	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5
2.5°	3568.2	3467.4	3265.9	3105.4	2941.2	2847.8	2732.1	2676.2	2665.0	2635.1	2657.5
5°	3631.7	3433.8	3053.1	2803.1	2635.1	2553.0	2511.9	2497.0	2493.3	2485.8	2485.8
7.5°	3717.5	3415.2	2918.8	2665.0	2556.7	2530.6	2541.8	2564.2	2567.9	2575.4	2571.6
10°	3822.0	3418.9	2844.1	2631.4	2579.1	2582.8	2620.2	2650.0	2665.0	2676.2	2672.4
12.5°	3967.6	3463.7	2832.9	2653.8	2631.4	2646.3	2683.6	2713.5	2728.4	2732.1	2732.1
15°	4157.9	3557.0	2859.0	2702.3	2683.6	2694.8	2717.2	2728.4	2732.1	2728.4	2728.4
17.5°	4366.9	3669.0	2896.4	2732.1	2702.3	2691.1	2683.6	2672.4	2650.0	2635.1	2635.1
20°	4568.5	3769.8	2915.0	2728.4	2676.2	2631.4	2586.6	2530.6	2493.3	2463.4	2463.4
22.5°	4770.0	3863.1	2915.0	2687.3	2605.2	2519.4	2426.1	2336.5	2280.5	2243.2	2243.2
25°	4982.8	3952.6	2892.6	2616.4	2493.3	2370.1	2243.2	2131.2	2075.2	2037.9	2030.4
27.5°	5162.0	4004.9	2832.9	2515.7	2355.2	2198.4	2052.8	1937.1	1896.1	1862.5	1862.5
30°	5352.3	4038.5	2720.9	2385.0	2198.4	2019.2	1869.9	1776.6	1731.8	1683.3	1679.6
32.5°	5565.1	4060.9	2594.0	2246.9	2037.9	1847.6	1720.7	1646.0	1549.0	1496.7	1489.2
35°	5811.4	4090.7	2459.7	2090.2	1877.4	1705.7	1631.1	1507.9	1414.6	1369.8	1366.1
37.5°	6072.7	4113.1	2314.1	1952.1	1731.8	1612.4	1537.8	1392.2	1310.1	1242.9	1235.4
40°	6348.9	4113.1	2164.8	1817.7	1616.1	1571.4	1429.5	1298.9	1160.8	1127.2	1119.7
42.5°	6654.9	4105.7	2015.5	1687.1	1507.9	1478.0	1366.1	1228.0	1157.1	1127.2	1119.7
45°	6979.6	4079.5	1873.7	1537.8	1395.9	1336.2	1250.4	1213.0	1183.2	1183.2	1183.2
47.5°	7349.2	4057.2	1713.2	1403.4	1313.8	1246.6	1183.2	1160.8	1157.1	1168.3	1179.4
50°	7823.2	4049.7	1578.8	1306.4	1250.4	1172.0	1164.5	1145.9	1149.6	1149.6	1149.6
52.5°	8398.0	3982.5	1451.9	1235.4	1186.9	1093.6	1116.0	1134.7	1142.1	1138.4	1134.7
55°	8819.7	3863.1	1343.7	1186.9	1142.1	1063.7	1093.6	1123.5	1130.9	1119.7	1119.7
57.5°	9200.4	3695.1	1257.8	1149.6	1112.3	1045.1	1078.7	1108.5	1101.1	1097.3	1093.6
60°	9637.1	3534.6	1190.6	1130.9	1082.4	1037.6	1067.5	1086.1	1074.9	1067.5	1063.7
62.5°	10111.2	3377.8	1142.1	1130.9	1060.0	1033.9	1056.3	1063.7	1041.3	1033.9	1033.9
65°	10331.4	3131.5	1089.9	1130.9	1048.8	1026.4	1033.9	1026.4	1004.0	1004.0	1000.3
67.5°	9969.3	2724.7	1022.7	1116.0	1063.7	1015.2	1000.3	989.1	963.0	963.0	955.5
70°	8969.0	2239.5	925.6	1067.5	1067.5	1011.5	955.5	929.4	899.5	910.7	895.8
72.5°	7662.7	1776.6	806.2	985.4	1045.1	1007.8	907.0	865.9	839.8	851.0	828.6
75°	6207.0	1377.3	664.4	854.7	989.1	989.1	858.5	802.5	772.6	772.6	746.5
77.5°	3956.4	1019.0	541.2	709.2	888.3	963.0	817.4	731.6	686.8	675.6	656.9
80°	1959.5	716.6	444.2	563.6	757.7	903.2	787.5	649.4	586.0	563.6	530.0
82.5°	1041.3	496.4	354.6	440.4	604.7	813.7	750.2	559.9	481.5	447.9	410.6
85°	466.6	306.1	283.7	335.9	459.1	668.1	675.6	459.1	369.5	440.4	324.7
87.5°	171.7	138.1	138.1	171.7	265.0	279.9	477.8	294.9	235.1	160.5	126.9
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)