

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: P236879

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2R-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T2R-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29110 lumens
Efficiency: N/A
Efficacy: 111.5 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

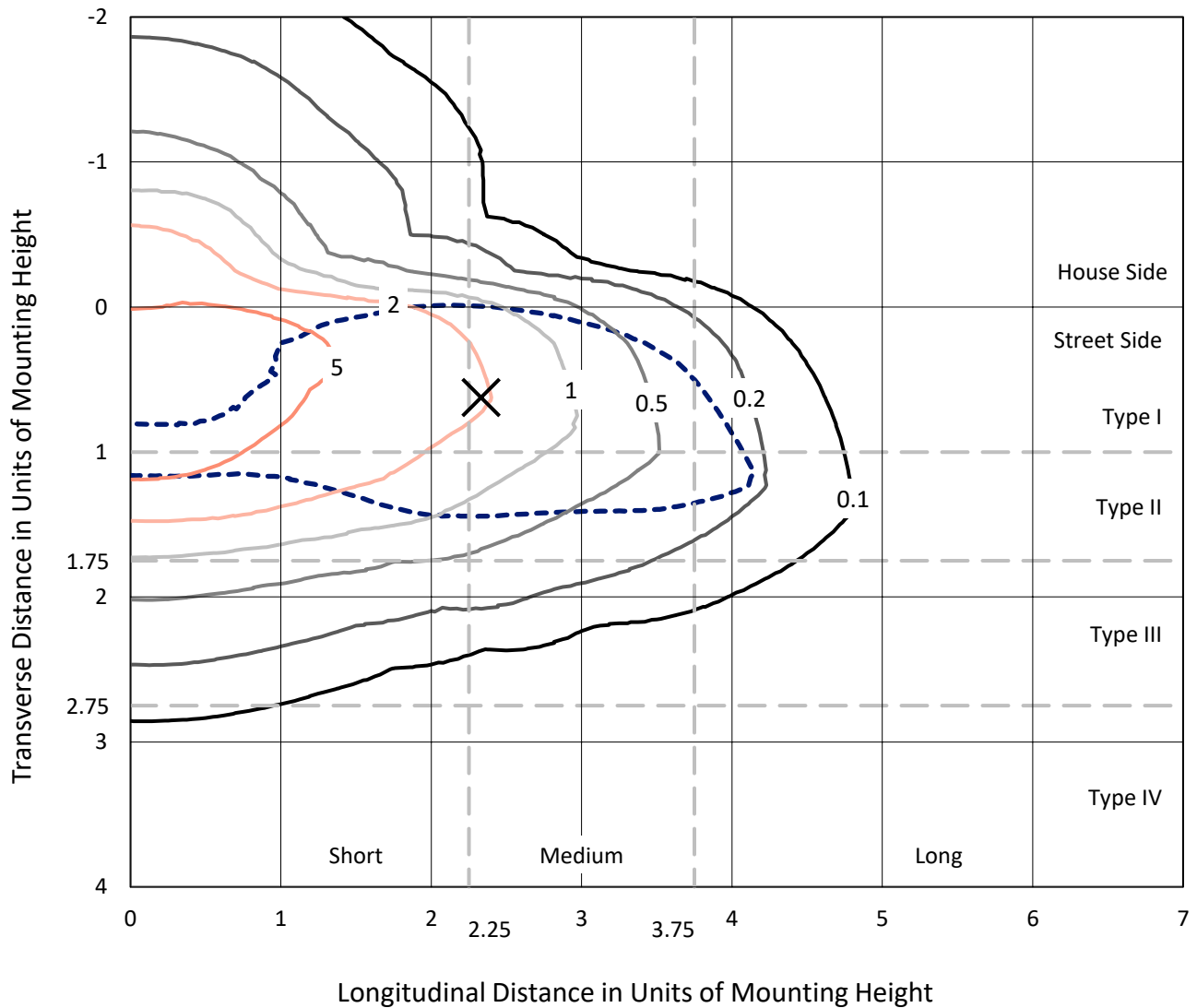
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

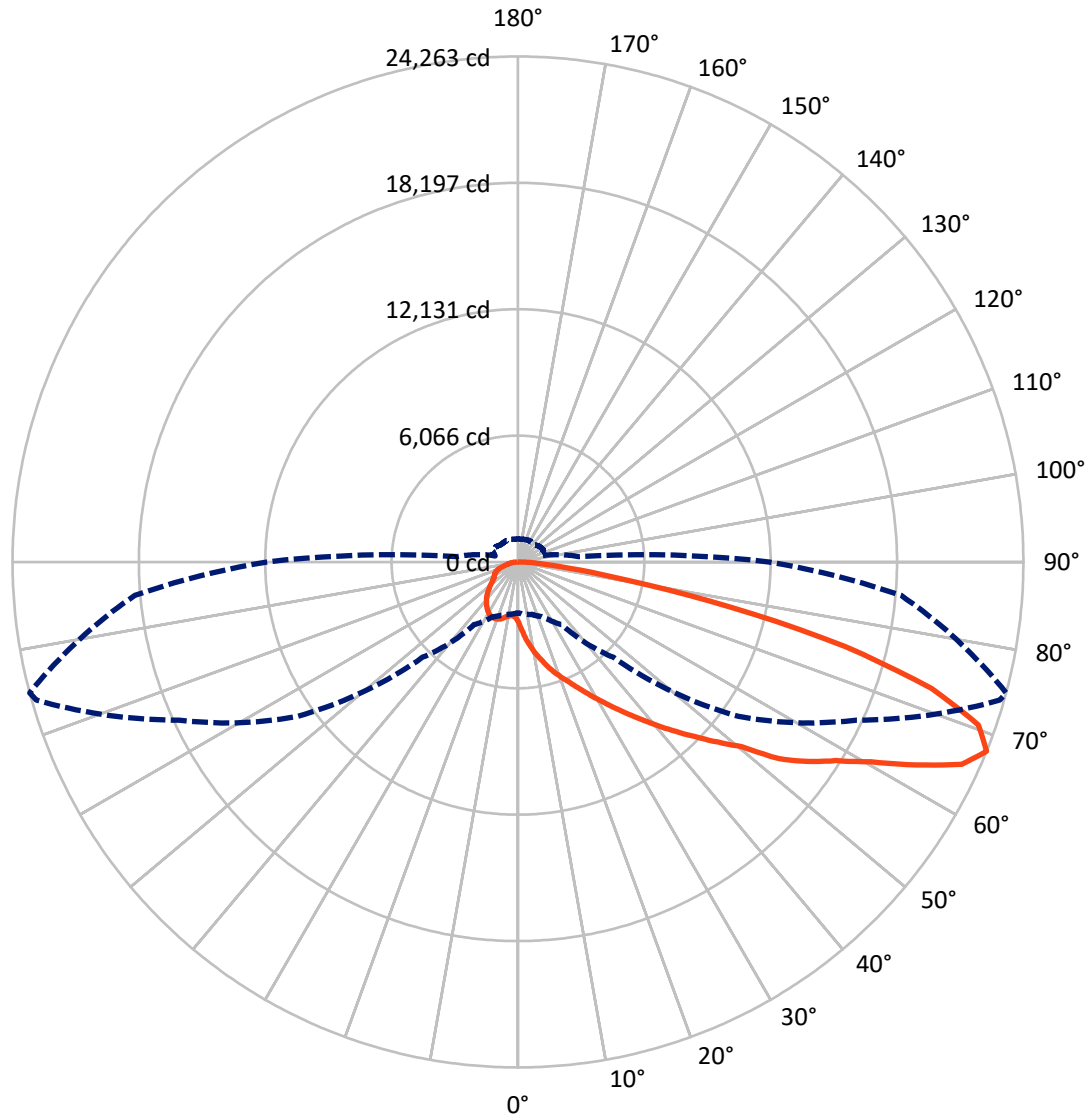
✕ Max cd
 - - - 1/2 Max cd



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 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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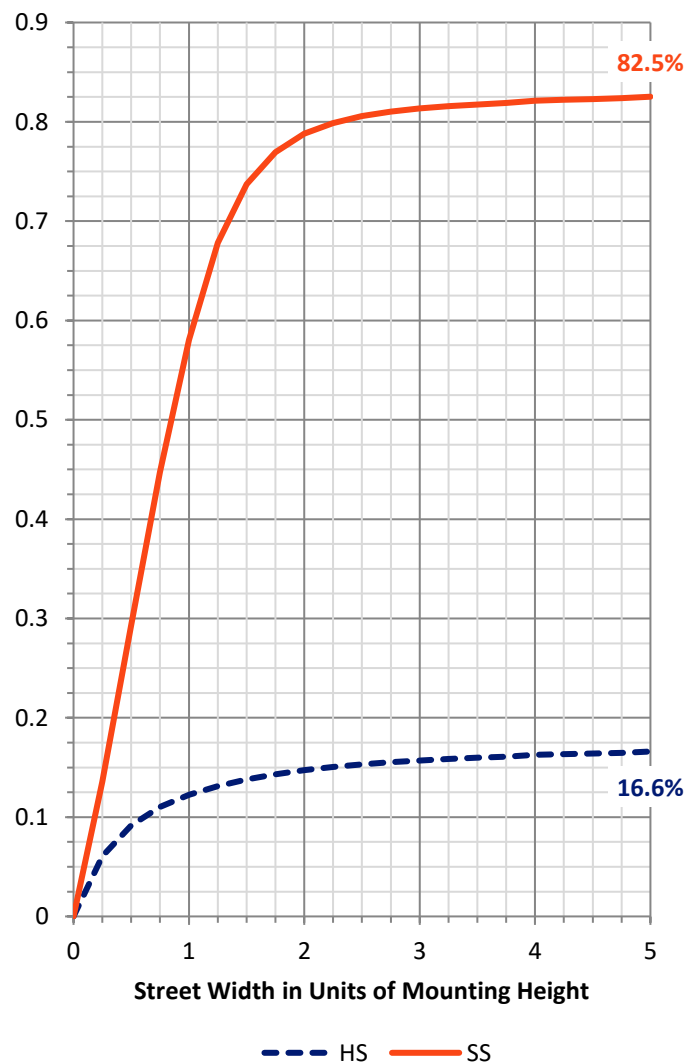
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4970.9	0.0	4970.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	24139.1	0.0	24139.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	29110.0	0.0	29110.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.9	1.2
10°-20°	1224.6	4.2
20°-30°	2233.6	7.7
30°-40°	3666.3	12.6
40°-50°	5302.0	18.2
50°-60°	6248.4	21.5
60°-70°	6072.0	20.9
70°-80°	3375.2	11.6
80°-90°	649.0	2.2
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°	29110.0	100.0
0°-180°	29110.0	100.0



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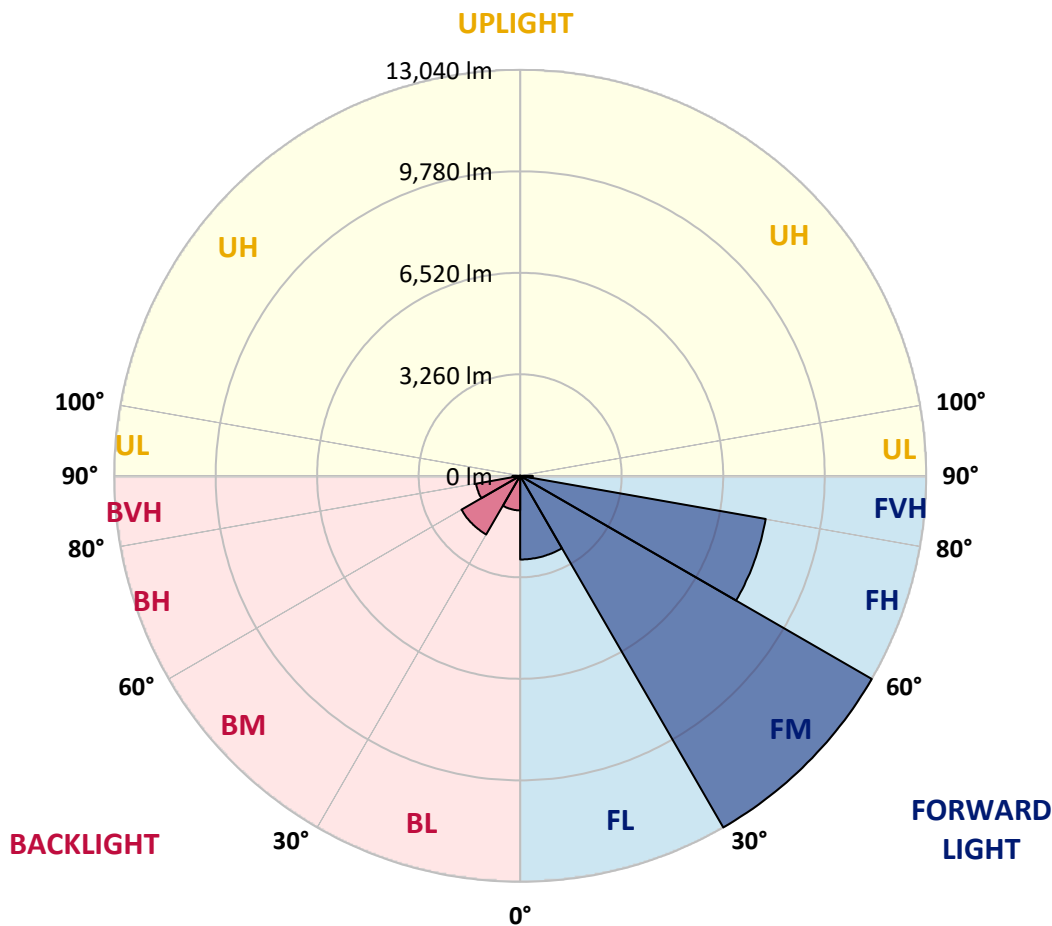
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2687.6	9.2			
FM (30°-60°)	13039.7	44.8			
FH (60°-80°)	8007.8	27.5			G4/12000
FVH (80°-90°)	403.9	1.4			G3/500
BL (0°-30°)	1109.5	3.8	B3/2500		
BM (30°-60°)	2177.0	7.5	B2/2500		
BH (60°-80°)	1439.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	245.1	0.8			G3/500
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°	74°	75°	85°
0°	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5
2.5°	4089.4	4101.6	4077.3	4022.5	3943.4	3797.3	3669.5	3444.4	3243.6	3219.2	3006.2
5°	4807.5	4819.7	4789.3	4722.3	4637.1	4478.9	4302.4	4010.3	3687.8	3626.9	3176.6
7.5°	5300.4	5306.5	5270.0	5203.1	5136.1	4977.9	4801.4	4472.8	4077.3	4028.6	3395.7
10°	5720.3	5732.5	5683.8	5641.2	5568.2	5410.0	5227.4	4880.6	4472.8	4405.9	3620.9
12.5°	6109.8	6122.0	6091.6	6055.0	6030.7	5884.7	5683.8	5270.0	4831.9	4758.8	3888.6
15°	6371.5	6383.7	6389.7	6438.4	6468.9	6365.4	6164.6	5714.3	5221.3	5154.4	4205.1
17.5°	6298.5	6328.9	6420.2	6596.7	6785.3	6791.4	6627.1	6152.4	5604.7	5531.7	4527.6
20°	6085.5	6109.8	6219.4	6487.1	6858.3	7071.3	7059.2	6596.7	5963.8	5884.7	4825.8
22.5°	6262.0	6292.4	6292.4	6456.7	6821.8	7217.4	7375.6	7034.8	6322.8	6249.8	5124.0
25°	7016.6	7034.8	6907.0	6840.1	6974.0	7339.1	7637.3	7509.5	6761.0	6675.8	5446.5
27.5°	8069.3	8038.9	7880.7	7612.9	7466.9	7564.2	7868.5	7959.8	7266.1	7162.6	5781.2
30°	9116.0	9097.8	8915.2	8556.2	8227.6	8020.7	8124.1	8361.4	7813.8	7692.0	6103.7
32.5°	10095.8	10065.4	9864.6	9444.7	9073.4	8690.1	8489.2	8726.6	8398.0	8258.0	6462.8
35°	10996.5	10917.3	10716.5	10278.4	9895.0	9529.9	9036.9	9073.4	9030.8	8884.8	6858.3
37.5°	11726.7	11665.9	11446.8	11039.1	10631.3	10284.5	9767.2	9469.0	9712.4	9572.5	7314.7
40°	12371.8	12304.8	12079.7	11671.9	11294.6	10966.0	10558.3	9949.8	10479.2	10321.0	7825.9
42.5°	12858.6	12809.9	12627.4	12225.7	11860.6	11562.4	11361.6	10558.3	11276.4	11124.3	8385.8
45°	13120.3	13071.6	12974.2	12651.7	12317.0	12085.8	12104.0	11282.5	12110.1	11982.3	9049.1
47.5°	12797.8	12834.3	12919.5	12858.6	12651.7	12542.2	12767.3	12031.0	13041.2	12919.5	9767.2
50°	11933.6	11970.1	12310.9	12730.8	12803.8	12937.7	13363.7	12895.1	14027.0	13929.7	10655.7
52.5°	9809.8	10010.6	10953.9	11958.0	12645.6	13199.4	14027.0	14179.2	15688.4	15688.4	12225.7
55°	7412.1	7588.6	8665.7	10418.3	12031.0	13223.7	14513.9	15049.4	16887.2	16911.5	13047.3
57.5°	6006.4	6115.9	6645.3	8440.6	10740.9	12919.5	15092.0	15797.9	17885.2	17994.8	14106.1
60°	4874.5	4935.3	5282.2	6529.7	8957.8	12097.9	15505.8	16868.9	19309.2	19461.4	15457.1
62.5°	3919.0	3979.9	4211.1	4959.7	7028.7	10558.3	15432.8	17982.6	21207.9	21457.4	17228.0
65°	3127.9	3194.9	3347.0	3809.5	5209.2	8647.5	14684.3	18554.6	23173.5	23416.9	18402.5
67.5°	2440.3	2501.1	2604.6	2908.9	3669.5	6468.9	12913.4	17952.2	24055.9	24262.8	18463.3
70°	1843.9	1874.3	1959.5	2154.3	2622.8	4296.3	10108.0	15931.8	23264.8	23453.4	17246.2
72.5°	1430.1	1424.0	1472.7	1570.1	1831.7	2957.5	6700.1	12956.0	20568.9	20763.6	14714.7
75°	1168.4	1162.3	1192.8	1223.2	1326.6	1983.9	3955.6	9755.0	16601.2	16230.0	11039.1
77.5°	985.8	979.8	1010.2	1016.3	1058.9	1369.2	2251.6	6420.2	11075.6	10436.6	6219.4
80°	833.7	827.6	864.1	876.3	906.7	1004.1	1296.2	3474.8	5562.1	5270.0	2969.7
82.5°	626.8	651.1	718.1	748.5	785.0	742.4	803.3	1533.5	2580.2	2464.6	1290.1
85°	304.3	359.0	541.6	602.5	645.1	468.6	547.7	724.2	1162.3	1107.6	523.4
87.5°	103.5	91.3	322.5	383.4	419.9	213.0	304.3	401.6	480.8	438.2	164.3
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°	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5
2.5°	2914.9	2823.7	2689.8	2586.3	2519.4	2464.6	2440.3	2434.2	2422.0	2415.9	2415.9
5°	2975.8	2811.5	2604.6	2495.0	2464.6	2440.3	2452.4	2458.5	2458.5	2458.5	2458.5
7.5°	3067.1	2835.8	2586.3	2513.3	2507.2	2507.2	2543.7	2562.0	2574.2	2574.2	2574.2
10°	3188.8	2878.4	2616.8	2555.9	2574.2	2586.3	2628.9	2653.3	2665.4	2671.5	2677.6
12.5°	3353.1	2969.7	2677.6	2628.9	2653.3	2659.4	2689.8	2702.0	2714.1	2720.2	2720.2
15°	3572.2	3103.6	2775.0	2714.1	2720.2	2714.1	2714.1	2702.0	2695.9	2695.9	2708.0
17.5°	3797.3	3231.4	2860.2	2775.0	2750.6	2702.0	2665.4	2635.0	2616.8	2604.6	2610.7
20°	4022.5	3347.0	2908.9	2787.1	2720.2	2641.1	2574.2	2531.6	2507.2	2482.9	2495.0
22.5°	4247.7	3456.6	2927.1	2750.6	2653.3	2537.6	2464.6	2397.7	2342.9	2306.4	2312.5
25°	4497.2	3578.3	2927.1	2708.0	2562.0	2440.3	2349.0	2239.5	2160.3	2129.9	2142.1
27.5°	4746.7	3681.7	2896.7	2628.9	2458.5	2336.8	2202.9	2075.1	2026.5	2008.2	2014.3
30°	4996.2	3760.8	2829.7	2531.6	2349.0	2215.1	2038.6	1953.4	1892.6	1843.9	1850.0
32.5°	5245.7	3815.6	2738.5	2409.8	2233.4	2063.0	1916.9	1819.6	1710.0	1649.2	1655.2
35°	5531.7	3858.2	2628.9	2288.1	2105.6	1929.1	1819.6	1661.3	1545.7	1497.0	1484.9
37.5°	5829.9	3888.6	2513.3	2154.3	1977.8	1831.7	1722.2	1527.5	1417.9	1351.0	1344.9
40°	6152.4	3900.8	2373.3	2014.3	1856.1	1770.9	1594.4	1448.3	1259.7	1217.1	1217.1
42.5°	6535.8	3894.7	2233.4	1874.3	1722.2	1630.9	1503.1	1436.2	1271.9	1229.3	1204.9
45°	6974.0	3894.7	2081.2	1710.0	1588.3	1454.4	1399.7	1357.1	1247.5	1265.8	1277.9
47.5°	7473.0	3882.5	1898.7	1576.1	1478.8	1363.1	1332.7	1241.4	1198.8	1211.0	1223.2
50°	8160.6	3900.8	1734.4	1466.6	1399.7	1302.3	1265.8	1217.1	1198.8	1204.9	1198.8
52.5°	9116.0	3839.9	1576.1	1399.7	1338.8	1211.0	1211.0	1204.9	1211.0	1204.9	1204.9
55°	9639.4	3706.1	1460.5	1363.1	1296.2	1168.4	1192.8	1204.9	1217.1	1211.0	1211.0
57.5°	10381.8	3614.8	1369.2	1338.8	1271.9	1156.2	1180.6	1204.9	1211.0	1204.9	1204.9
60°	11258.1	3553.9	1308.4	1344.9	1253.6	1156.2	1186.7	1204.9	1198.8	1192.8	1192.8
62.5°	12274.4	3529.6	1265.8	1363.1	1235.4	1162.3	1186.7	1204.9	1180.6	1174.5	1174.5
65°	12657.8	3310.5	1211.0	1375.3	1247.5	1162.3	1180.6	1186.7	1156.2	1150.2	1144.1
67.5°	12067.5	2933.2	1131.9	1351.0	1284.0	1162.3	1162.3	1156.2	1119.7	1113.6	1101.5
70°	10747.0	2434.2	1010.2	1271.9	1308.4	1168.4	1138.0	1107.6	1071.0	1071.0	1046.7
72.5°	8799.6	1916.9	852.0	1131.9	1290.1	1186.7	1089.3	1046.7	1004.1	1004.1	979.8
75°	6341.1	1430.1	681.6	943.2	1211.0	1180.6	1028.4	973.7	925.0	918.9	888.5
77.5°	3614.8	1004.1	553.8	736.3	1077.1	1150.2	973.7	888.5	833.7	815.5	797.2
80°	1856.1	675.5	450.3	578.1	894.6	1065.0	931.1	791.1	730.3	699.8	669.4
82.5°	882.4	450.3	346.9	426.0	675.5	931.1	876.3	681.6	614.6	578.1	541.6
85°	395.6	267.8	231.2	273.8	480.8	724.2	772.9	559.9	480.8	602.5	444.2
87.5°	127.8	121.7	121.7	127.8	231.2	316.4	565.9	413.8	383.4	316.4	267.8
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)