

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: P400354

Luminaire Tested: **ARCH-L-PA3-270-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400354
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-PA3-270-730-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 32364 lumens
Efficiency: N/A
Efficacy: 118.5 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

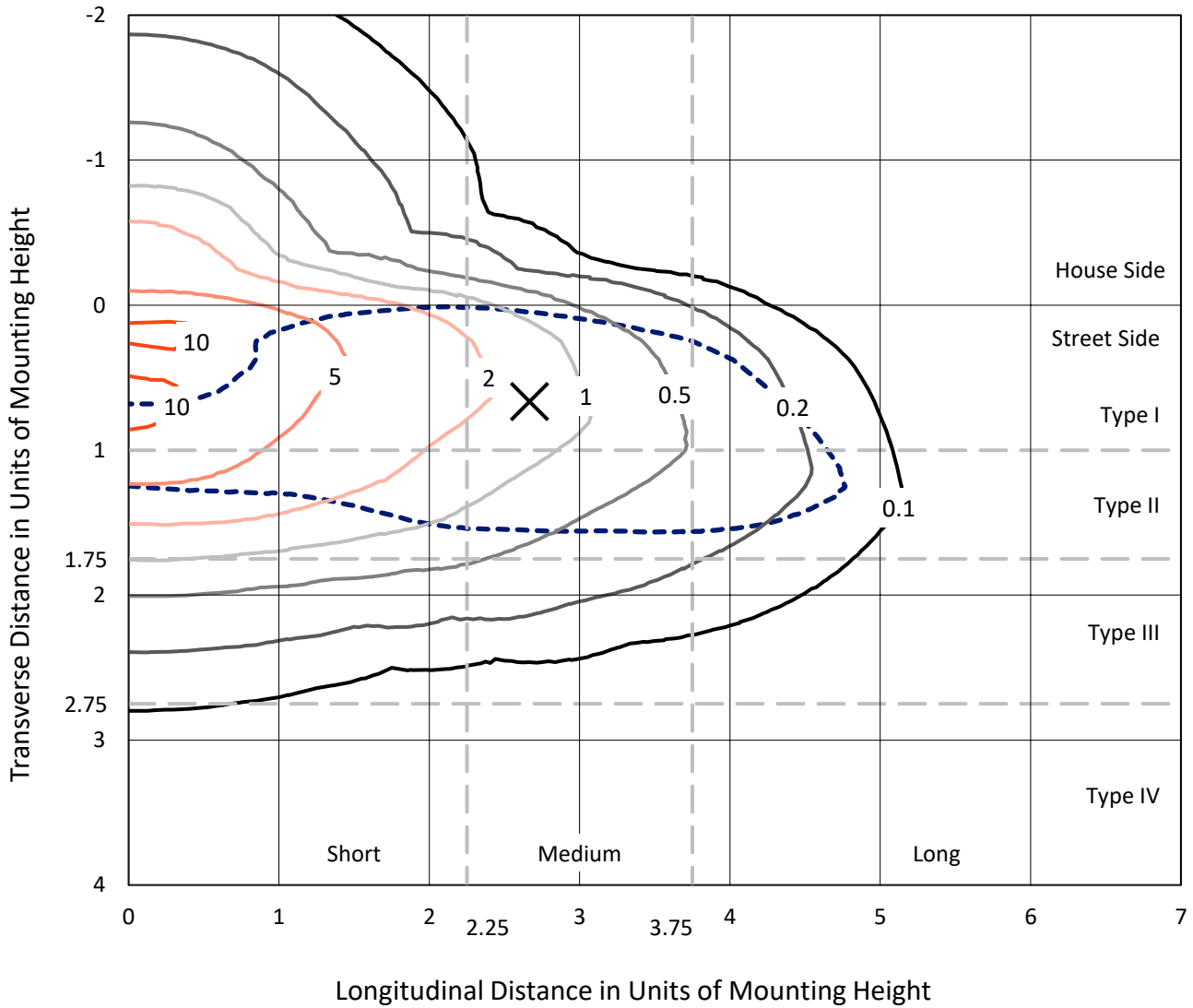
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400354
 CATALOG NUMBER: ARCH-L-PA3-270-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

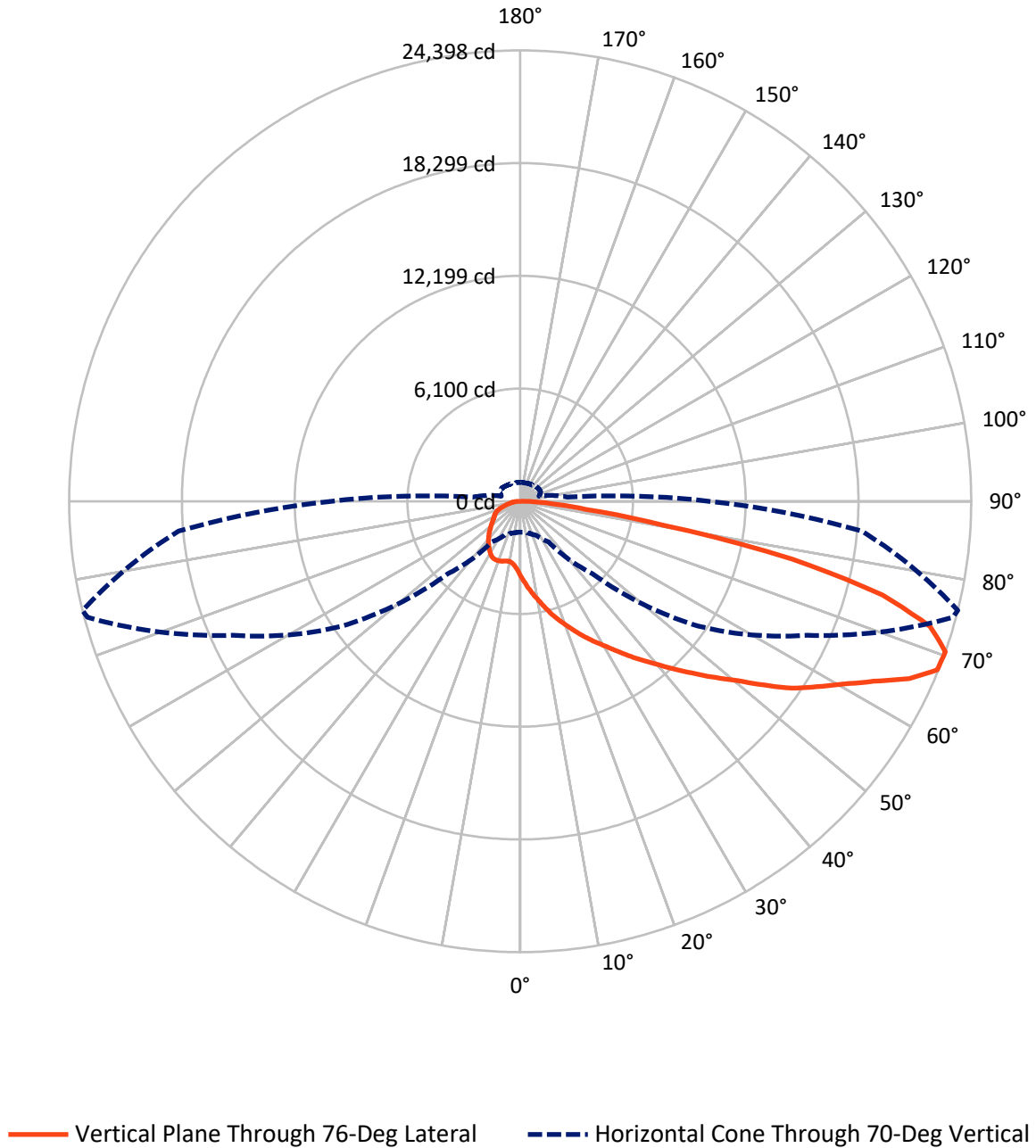
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - N/A

REPORT NUMBER: P400354
CATALOG NUMBER: ARCH-L-PA3-270-730-U-T2R

Luminous Intensity Polar Plot



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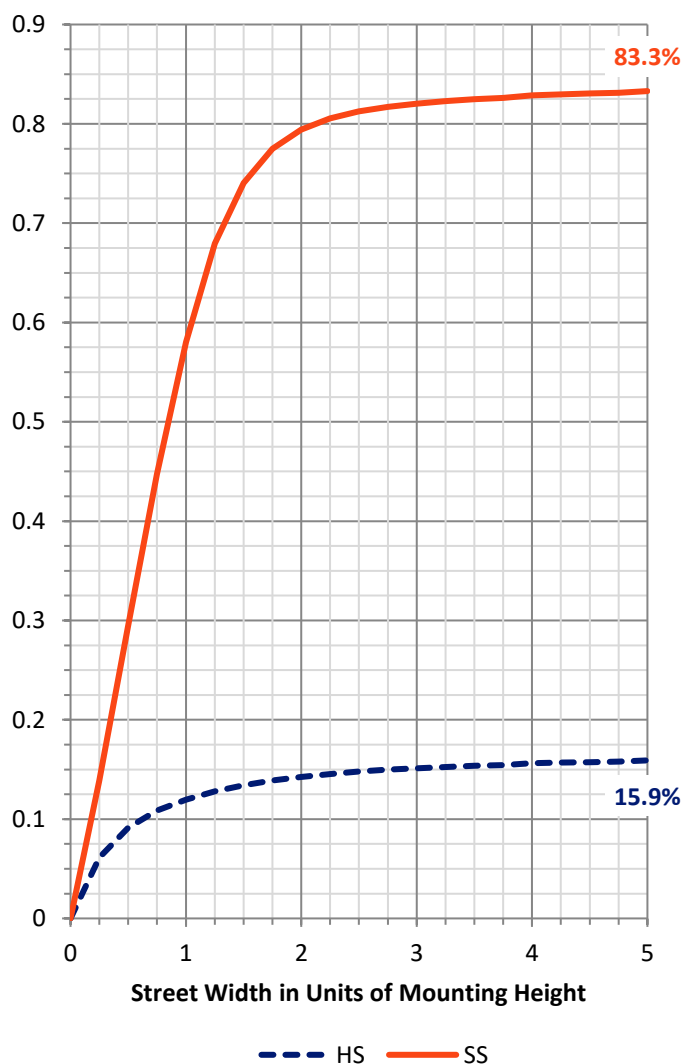
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5283.8	0.0	5283.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	27080.3	0.0	27080.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	32364.0	0.0	32364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.5	1.3
10°-20°	1429.2	4.4
20°-30°	2557.1	7.9
30°-40°	4136.5	12.8
40°-50°	5984.0	18.5
50°-60°	6849.1	21.2
60°-70°	6300.4	19.5
70°-80°	3896.1	12.0
80°-90°	791.2	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°	32364.0	100.0
0°-180°	32364.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400354

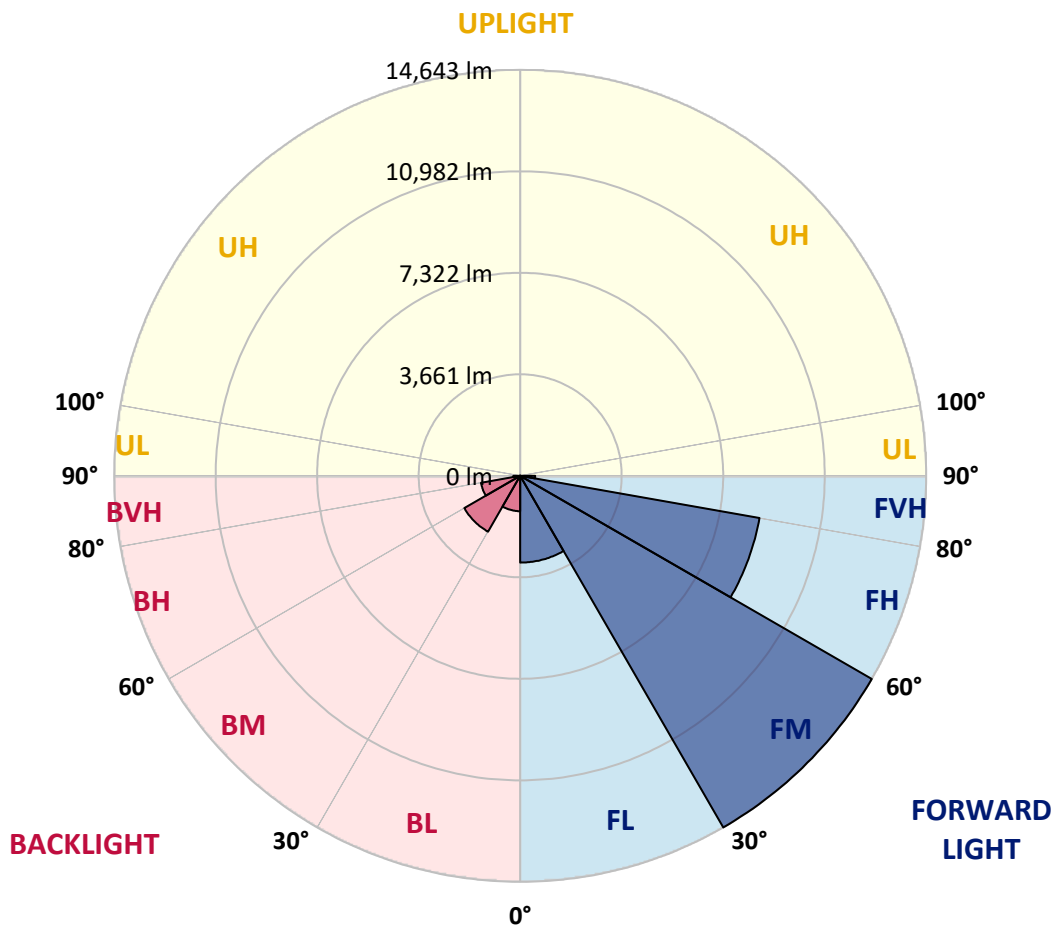
CATALOG NUMBER: ARCH-L-PA3-270-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3130.7	9.7			
FM (30°-60°)	14643.2	45.2			
FH (60°-80°)	8763.3	27.1			G4/12000
FVH (80°-90°)	543.1	1.7			G4/750
BL (0°-30°)	1276.2	3.9	B3/2500		
BM (30°-60°)	2326.4	7.2	B2/2500		
BH (60°-80°)	1433.1	4.4	B3/2500		G3/2500
BVH (80°-90°)	248.0	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





REPORT NUMBER: P400354

CATALOG NUMBER: ARCH-L-PA3-270-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4047.3	4047.3	4047.3	4047.3	4047.3	4047.3	4047.3	4047.3	4047.3	4047.3	4047.3
2.5°	5158.0	5119.7	5115.5	5055.9	5000.6	4851.6	4745.2	4558.0	4370.7	4366.4	4179.2
5°	5962.4	5924.1	5902.8	5830.4	5736.8	5541.0	5349.5	5060.1	4741.0	4719.7	4366.4
7.5°	6507.1	6473.1	6430.5	6400.7	6311.3	6136.8	5902.8	5558.1	5119.7	5077.2	4583.5
10°	6873.1	6851.8	6843.3	6822.0	6766.7	6626.3	6400.7	6034.7	5498.5	5451.7	4813.3
12.5°	7030.6	7022.1	7060.4	7119.9	7141.2	7085.9	6868.8	6524.1	5915.5	5864.5	5089.9
15°	6847.6	6856.1	6954.0	7158.2	7375.3	7494.4	7366.8	7030.6	6387.9	6315.6	5413.4
17.5°	6762.5	6775.2	6843.3	7039.1	7345.5	7715.7	7775.3	7511.5	6843.3	6741.2	5753.8
20°	6911.4	6928.4	6979.5	7132.7	7345.5	7741.3	8052.0	7971.1	7290.2	7183.8	6081.5
22.5°	7290.2	7311.4	7307.2	7405.1	7549.8	7822.1	8205.2	8405.2	7758.3	7639.1	6422.0
25°	8098.8	8081.7	7937.0	7890.2	7928.5	8103.0	8409.4	8822.3	8247.7	8128.6	6779.5
27.5°	9196.8	9175.5	8911.6	8673.3	8460.5	8537.1	8698.8	9158.5	8745.6	8609.5	7119.9
30°	10371.4	10345.8	10039.4	9652.1	9179.7	9069.1	9047.8	9452.1	9247.8	9103.1	7481.7
32.5°	11516.2	11494.9	11167.2	10716.1	10064.9	9733.0	9528.7	9779.8	9818.1	9677.7	7877.5
35°	12558.8	12558.8	12278.0	11741.7	11005.5	10503.3	10167.1	10184.1	10473.5	10311.8	8328.6
37.5°	13486.6	13482.3	13175.9	12648.2	11941.7	11367.2	10950.1	10673.5	11099.1	10958.7	8801.0
40°	14222.9	14193.1	13967.5	13507.9	12797.2	12226.9	11805.6	11248.1	11797.1	11669.4	9303.2
42.5°	14759.1	14742.1	14588.8	14188.8	13512.1	12975.9	12686.5	11971.5	12588.6	12461.0	9890.5
45°	14967.6	15001.7	15001.7	14622.9	14086.7	13597.3	13469.6	12767.4	13444.0	13316.4	10520.3
47.5°	14631.4	14720.8	14903.8	14929.3	14456.9	14125.0	14167.5	13567.5	14325.0	14256.9	11209.8
50°	13580.2	13746.2	14146.2	14869.7	14605.9	14529.3	14763.3	14384.6	15269.8	15248.5	12048.1
52.5°	10869.3	11273.6	12520.5	13818.6	14503.7	14716.5	15354.9	15303.8	16486.9	16521.0	13141.9
55°	8337.1	8490.3	9933.0	12141.8	13878.1	14656.9	15750.7	16201.8	17806.2	17848.8	14146.2
57.5°	6741.2	6843.3	7630.6	9933.0	12452.4	14333.5	16061.4	16725.3	18819.1	18929.8	15040.0
60°	5341.0	5490.0	6017.7	7600.8	10456.5	13554.7	16278.4	17308.3	19908.6	20074.6	16108.2
62.5°	3970.7	4043.0	4540.9	5630.4	8277.5	12154.5	16163.5	17942.4	21244.9	21444.9	17393.4
65°	2825.8	2889.7	3242.9	4004.7	6119.8	10260.7	15495.3	18414.8	22921.7	23126.0	18687.2
67.5°	2115.1	2140.7	2340.7	2800.3	4123.9	7971.1	14142.0	18333.9	24147.4	24330.4	19206.4
70°	1672.5	1681.0	1778.9	2025.8	2681.1	5549.6	11771.5	17146.6	24236.7	24398.4	18551.0
72.5°	1387.4	1383.1	1438.5	1557.6	1868.3	3511.0	8720.1	14942.1	23087.7	23198.3	16721.0
75°	1144.8	1153.3	1191.6	1259.7	1425.7	2315.1	5651.7	11920.5	20368.2	20249.1	14031.3
77.5°	961.8	957.6	974.6	1034.2	1153.3	1664.0	3311.0	8613.7	15095.3	15035.7	9209.5
80°	774.6	783.1	808.6	859.7	970.3	1268.2	1957.7	5375.1	8098.8	7881.7	4400.5
82.5°	519.2	600.1	651.1	710.7	838.4	936.3	1242.7	2732.2	3621.7	3566.4	1996.0
85°	246.8	327.7	485.2	553.3	680.9	587.3	842.6	1302.3	1813.0	1791.7	719.2
87.5°	51.1	51.1	259.6	310.7	421.3	251.1	468.1	566.0	876.7	821.4	293.6
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: P400354

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4047.3	4047.3	4047.3	4047.3	4047.3	4047.3	4047.3	4047.3	4047.3	4047.3	4047.3
2.5°	4068.5	3953.6	3723.8	3540.8	3353.6	3247.2	3115.2	3051.4	3038.6	3004.6	3030.1
5°	4140.9	3915.3	3481.2	3196.1	3004.6	2911.0	2864.1	2847.1	2842.9	2834.4	2834.4
7.5°	4238.8	3894.0	3328.0	3038.6	2915.2	2885.4	2898.2	2923.7	2928.0	2936.5	2932.2
10°	4357.9	3898.3	3242.9	3000.3	2940.8	2945.0	2987.6	3021.6	3038.6	3051.4	3047.1
12.5°	4523.9	3949.4	3230.1	3025.9	3000.3	3017.4	3059.9	3094.0	3111.0	3115.2	3115.2
15°	4741.0	4055.8	3259.9	3081.2	3059.9	3072.7	3098.2	3111.0	3115.2	3111.0	3111.0
17.5°	4979.3	4183.4	3302.5	3115.2	3081.2	3068.4	3059.9	3047.1	3021.6	3004.6	3004.6
20°	5209.1	4298.3	3323.8	3111.0	3051.4	3000.3	2949.3	2885.4	2842.9	2808.8	2808.8
22.5°	5438.9	4404.7	3323.8	3064.2	2970.5	2872.7	2766.3	2664.1	2600.3	2557.7	2557.7
25°	5681.5	4506.9	3298.2	2983.3	2842.9	2702.4	2557.7	2430.1	2366.2	2323.7	2315.1
27.5°	5885.8	4566.5	3230.1	2868.4	2685.4	2506.7	2340.7	2208.8	2161.9	2123.6	2123.6
30°	6102.8	4604.8	3102.5	2719.5	2506.7	2302.4	2132.2	2025.8	1974.7	1919.4	1915.1
32.5°	6345.4	4630.3	2957.8	2562.0	2323.7	2106.6	1961.9	1876.8	1766.2	1706.6	1698.1
35°	6626.3	4664.3	2804.6	2383.2	2140.7	1944.9	1859.8	1719.3	1612.9	1561.9	1557.6
37.5°	6924.2	4689.9	2638.6	2225.8	1974.7	1838.5	1753.4	1587.4	1493.8	1417.2	1408.7
40°	7239.1	4689.9	2468.4	2072.6	1842.8	1791.7	1630.0	1481.0	1323.6	1285.2	1276.7
42.5°	7588.1	4681.4	2298.1	1923.6	1719.3	1685.3	1557.6	1400.2	1319.3	1285.2	1276.7
45°	7958.3	4651.6	2136.4	1753.4	1591.7	1523.6	1425.7	1383.1	1349.1	1349.1	1349.1
47.5°	8379.7	4626.0	1953.4	1600.2	1498.0	1421.4	1349.1	1323.6	1319.3	1332.1	1344.8
50°	8920.1	4617.5	1800.2	1489.5	1425.7	1336.3	1327.8	1306.5	1310.8	1310.8	1310.8
52.5°	9575.5	4540.9	1655.5	1408.7	1353.3	1246.9	1272.5	1293.8	1302.3	1298.0	1293.8
55°	10056.4	4404.7	1532.1	1353.3	1302.3	1212.9	1246.9	1281.0	1289.5	1276.7	1276.7
57.5°	10490.5	4213.2	1434.2	1310.8	1268.2	1191.6	1229.9	1264.0	1255.5	1251.2	1246.9
60°	10988.5	4030.2	1357.6	1289.5	1234.2	1183.1	1217.2	1238.4	1225.7	1217.2	1212.9
62.5°	11528.9	3851.5	1302.3	1289.5	1208.6	1178.9	1204.4	1212.9	1187.4	1178.9	1178.9
65°	11780.0	3570.6	1242.7	1289.5	1195.9	1170.3	1178.9	1170.3	1144.8	1144.8	1140.6
67.5°	11367.2	3106.7	1166.1	1272.5	1212.9	1157.6	1140.6	1127.8	1098.0	1098.0	1089.5
70°	10226.7	2553.5	1055.4	1217.2	1217.2	1153.3	1089.5	1059.7	1025.6	1038.4	1021.4
72.5°	8737.1	2025.8	919.3	1123.5	1191.6	1149.1	1034.2	987.3	957.6	970.3	944.8
75°	7077.4	1570.4	757.5	974.6	1127.8	1127.8	978.8	915.0	880.9	880.9	851.2
77.5°	4511.1	1161.8	617.1	808.6	1012.9	1098.0	932.0	834.1	783.1	770.3	749.0
80°	2234.3	817.1	506.4	642.6	863.9	1029.9	898.0	740.5	668.2	642.6	604.3
82.5°	1187.4	566.0	404.3	502.2	689.4	927.8	855.4	638.4	549.0	510.7	468.1
85°	532.0	349.0	323.4	383.0	523.5	761.8	770.3	523.5	421.3	502.2	370.3
87.5°	195.8	157.5	157.5	195.8	302.2	319.2	544.7	336.2	268.1	183.0	144.7
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)