

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: P400376

Luminaire Tested: **ARCH-L-PA3-270-750-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-270-750-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35294 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

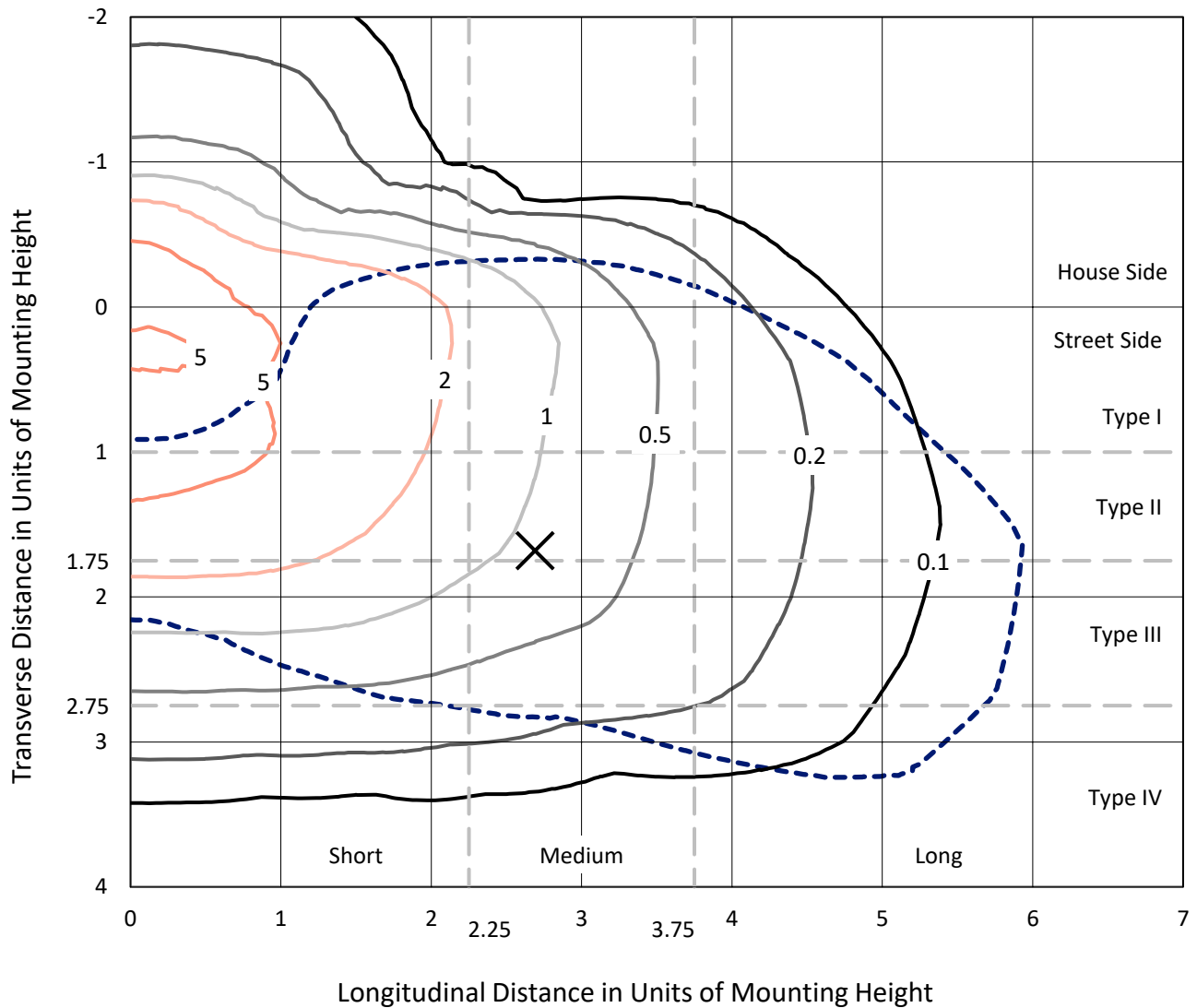
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

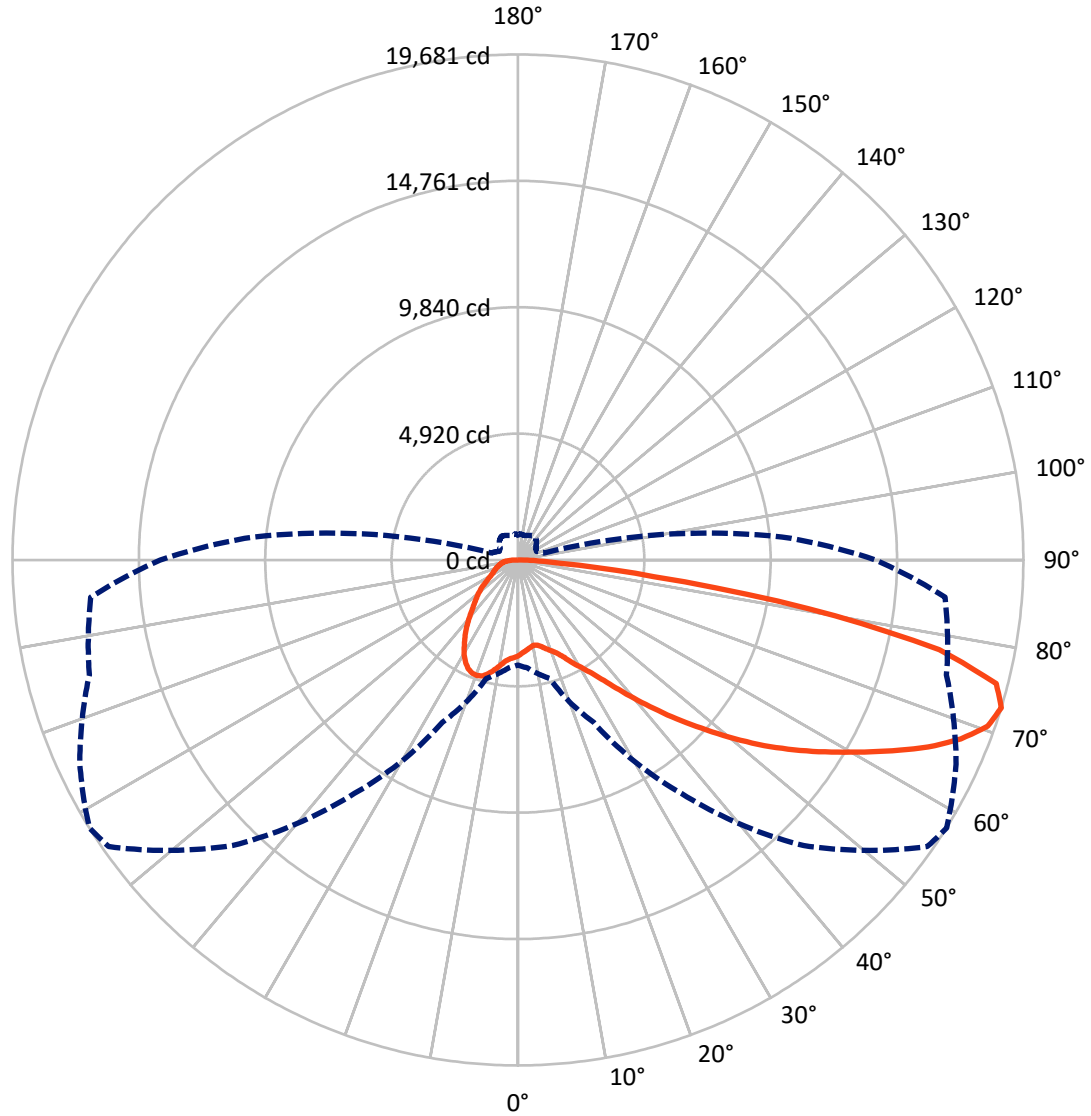
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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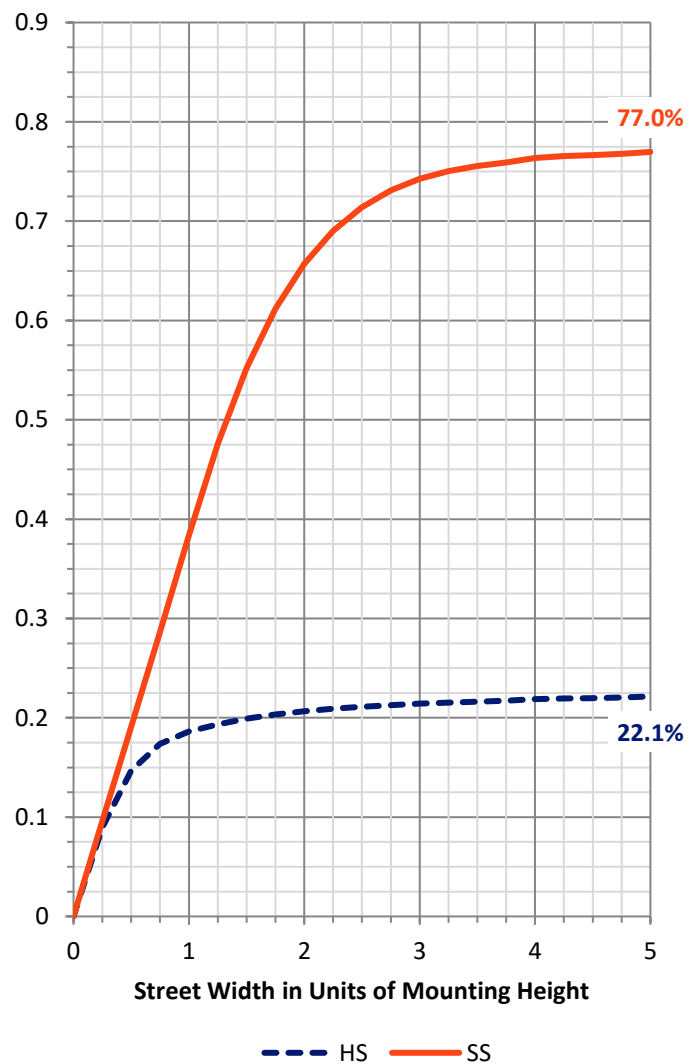
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8004.3	0.0	8004.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	27289.7	0.0	27289.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	35294.0	0.0	35294.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.6	1.0
10°-20°	1138.9	3.2
20°-30°	2040.1	5.8
30°-40°	3068.9	8.7
40°-50°	4969.7	14.1
50°-60°	7480.9	21.2
60°-70°	8804.3	24.9
70°-80°	6243.0	17.7
80°-90°	1189.6	3.4
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°	35294.0	100.0
0°-180°	35294.0	100.0



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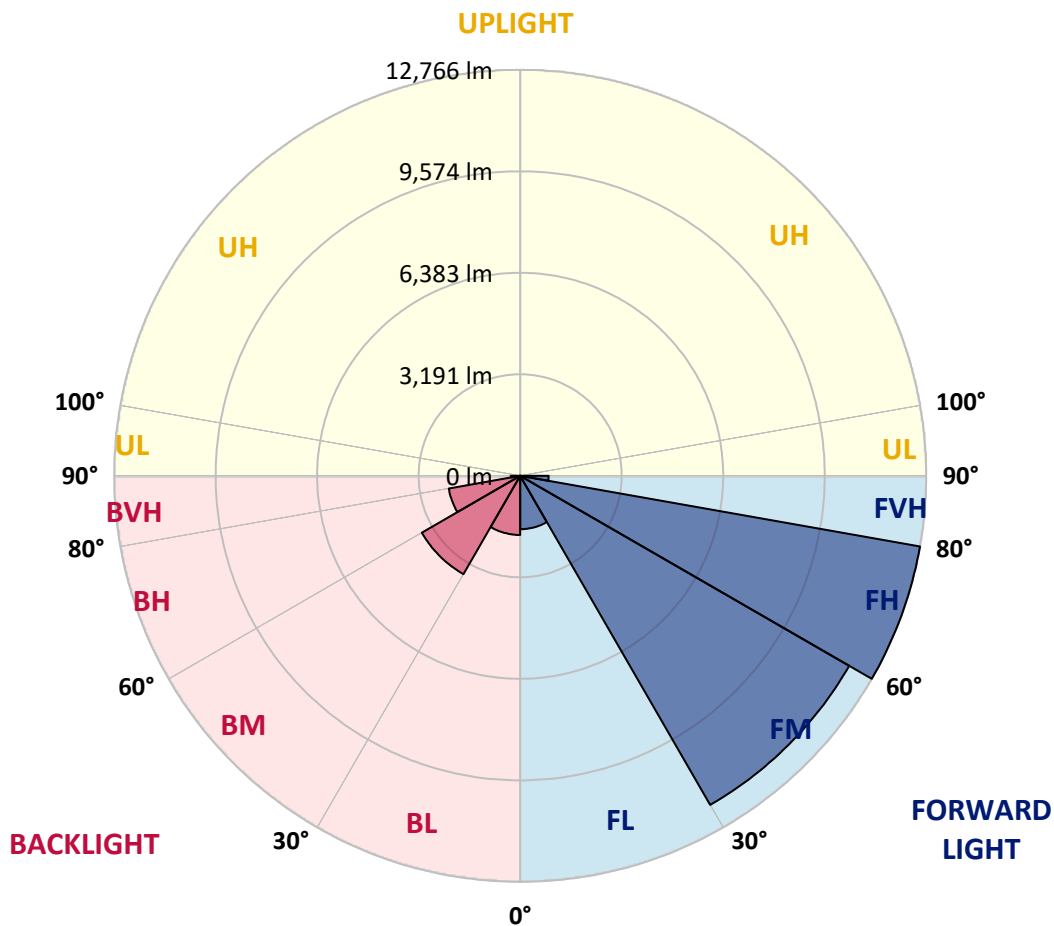
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1678.4	4.8			
FM (30°-60°)	11948.0	33.9			
FH (60°-80°)	12766.0	36.2			G5
FVH (80°-90°)	897.3	2.5			G5
BL (0°-30°)	1859.3	5.3	B3/2500		
BM (30°-60°)	3571.4	10.1	B3/5000		
BH (60°-80°)	2281.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	292.3	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-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8
2.5°	3583.0	3564.4	3569.0	3569.0	3587.6	3597.0	3601.6	3615.6	3624.9	3648.2	3680.8
5°	3415.3	3401.3	3405.9	3410.6	3443.2	3475.8	3503.8	3522.4	3550.4	3587.6	3634.2
7.5°	3294.1	3284.8	3289.5	3298.8	3326.7	3364.0	3410.6	3438.6	3480.5	3550.4	3629.6
10°	3205.6	3205.6	3210.2	3228.9	3256.8	3303.4	3340.7	3373.3	3457.2	3583.0	3704.1
12.5°	3135.7	3135.7	3149.7	3186.9	3233.5	3280.1	3368.7	3405.9	3517.8	3690.2	3834.6
15°	3131.0	3135.7	3140.4	3173.0	3224.2	3326.7	3457.2	3513.1	3648.2	3853.2	4021.0
17.5°	3205.6	3210.2	3191.6	3200.9	3261.5	3405.9	3578.3	3643.6	3816.0	4039.6	4212.0
20°	3433.9	3433.9	3378.0	3326.7	3368.7	3527.1	3722.8	3788.0	3979.0	4226.0	4398.4
22.5°	3899.8	3923.1	3792.7	3680.8	3615.6	3704.1	3881.2	3951.1	4165.4	4431.0	4603.4
25°	4463.6	4486.9	4309.8	4151.4	4030.3	4016.3	4132.8	4207.3	4384.4	4659.3	4803.7
27.5°	5008.7	4966.8	4803.7	4654.6	4500.9	4375.1	4463.6	4528.8	4733.8	4943.5	5032.0
30°	5437.4	5404.8	5246.4	5139.2	4994.8	4831.7	4780.4	4850.3	5018.0	5213.7	5260.3
32.5°	5912.6	5889.3	5730.9	5591.1	5470.0	5316.2	5204.4	5237.0	5330.2	5470.0	5498.0
35°	6518.3	6569.6	6401.9	6117.6	5982.5	5833.4	5754.2	5763.5	5833.4	5921.9	5875.4
37.5°	7156.7	7217.2	7226.5	6779.3	6597.5	6462.4	6378.6	6411.2	6495.0	6555.6	6411.2
40°	8340.1	8279.5	8037.3	7706.5	7426.9	7296.4	7180.0	7175.3	7235.9	7343.0	7082.1
42.5°	9910.3	9854.4	9365.2	8936.5	8493.9	8344.8	8116.5	8018.6	8046.6	8181.7	7818.3
45°	11415.2	11391.9	11000.6	10502.0	9970.9	9682.0	9160.1	8922.5	8899.2	9006.4	8573.1
47.5°	12752.5	12650.0	12365.7	11979.0	11923.1	11168.3	10208.5	9887.0	9775.2	9835.7	9351.2
50°	14182.9	13833.4	13442.0	13204.4	13609.8	12906.2	11266.1	10930.7	10655.8	10697.7	10194.5
52.5°	14942.3	14355.2	14099.0	14168.9	14714.0	14443.8	12417.0	12007.0	11564.3	11624.9	11033.2
55°	14290.0	14285.4	14397.2	14830.5	15590.0	15277.8	13511.9	13050.7	12566.1	12580.1	11997.7
57.5°	13395.4	13577.1	14154.9	15110.1	16675.6	16153.7	14588.2	14099.0	13656.4	13586.5	13092.6
60°	12580.1	12780.4	13619.1	15063.5	17053.0	16955.1	15613.3	15184.6	14825.8	14620.8	14243.4
62.5°	11340.7	11489.8	12677.9	14765.3	16736.1	17532.9	16652.3	16358.7	16088.5	15664.5	15482.8
65°	9882.3	9933.6	11186.9	13782.2	16340.1	17756.5	17686.6	17556.2	17295.3	16670.9	16708.2
67.5°	8302.8	8405.3	9504.9	12212.0	15473.5	17654.0	18488.0	18595.2	18287.7	17351.2	17490.9
70°	6620.8	6746.6	7580.7	10040.8	14001.1	17211.4	19228.9	19401.3	18809.5	17574.8	17635.4
72.5°	4095.5	4216.7	4775.8	6974.9	11098.4	15725.1	19457.2	19680.8	18823.5	17276.6	16694.2
75°	1416.4	1430.4	1868.4	3345.4	6588.2	11871.9	18711.7	19238.2	18231.8	16191.0	14527.6
77.5°	647.6	670.9	829.4	1379.1	2921.4	6406.5	15450.2	16768.8	16433.3	14495.0	11182.3
80°	447.3	456.6	573.1	824.7	1686.7	2255.1	9751.9	11471.2	12058.2	11224.2	7166.0
82.5°	335.5	344.8	442.6	559.1	1216.1	1094.9	3713.4	5330.2	6625.5	6504.4	2995.9
85°	321.5	316.8	344.8	372.7	810.7	652.3	1202.1	1649.4	2585.9	2213.2	754.8
87.5°	139.8	153.8	354.1	209.7	424.0	302.9	521.8	610.4	787.4	684.9	270.2
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°	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8
2.5°	3694.8	3704.1	3732.1	3774.0	3797.3	3843.9	3876.5	3895.2	3909.1	3913.8	3913.8
5°	3662.2	3680.8	3741.4	3811.3	3876.5	3974.4	4062.9	4114.1	4151.4	4165.4	4170.1
7.5°	3671.5	3718.1	3806.6	3909.1	3993.0	4118.8	4226.0	4328.5	4412.3	4445.0	4445.0
10°	3760.0	3825.3	3946.4	4081.5	4188.7	4319.2	4431.0	4519.5	4617.3	4673.3	4682.6
12.5°	3895.2	3974.4	4132.8	4281.9	4403.0	4505.5	4608.0	4673.3	4719.9	4761.8	4771.1
15°	4086.2	4184.0	4342.5	4496.2	4603.4	4668.6	4696.6	4696.6	4691.9	4696.6	4705.9
17.5°	4277.2	4370.4	4528.8	4682.6	4733.8	4696.6	4663.9	4654.6	4650.0	4640.6	4645.3
20°	4463.6	4552.1	4687.2	4803.7	4761.8	4631.3	4589.4	4584.7	4570.8	4561.4	4552.1
22.5°	4650.0	4715.2	4827.0	4869.0	4701.2	4514.8	4463.6	4435.6	4417.0	4393.7	4370.4
25°	4864.3	4882.9	4966.8	4901.6	4552.1	4300.5	4226.0	4184.0	4165.4	4142.1	4123.5
27.5°	5064.6	5064.6	5078.6	4850.3	4333.1	4016.3	3904.5	3829.9	3825.3	3820.6	3816.0
30°	5246.4	5223.1	5176.5	4696.6	4048.9	3666.9	3499.1	3424.6	3452.5	3475.8	3480.5
32.5°	5460.7	5414.1	5283.6	4486.9	3708.8	3275.5	3070.5	3037.9	3070.5	3098.4	3079.8
35°	5796.1	5712.3	5395.4	4244.6	3382.6	2916.7	2721.0	2674.4	2665.1	2660.5	2623.2
37.5°	6276.1	6131.6	5484.0	3983.7	3061.1	2599.9	2455.4	2357.6	2269.1	2175.9	2161.9
40°	6863.1	6616.2	5544.5	3685.5	2721.0	2334.3	2180.5	2054.7	1905.6	1742.6	1723.9
42.5°	7506.1	7138.0	5572.5	3354.7	2422.8	2115.3	1924.3	1765.9	1598.1	1472.3	1449.0
45°	8200.3	7701.8	5549.2	3037.9	2180.5	1928.9	1714.6	1542.2	1407.1	1318.6	1299.9
47.5°	8875.9	8349.4	5484.0	2786.3	1994.2	1770.5	1551.5	1393.1	1290.6	1192.8	1169.5
50°	9742.6	8969.1	5404.8	2590.6	1789.2	1612.1	1449.0	1281.3	1164.8	1118.2	1108.9
52.5°	10702.4	9588.8	5311.6	2343.6	1588.8	1486.3	1383.8	1234.7	1197.4	1108.9	1094.9
55°	11741.4	10325.0	5292.9	2031.4	1411.8	1397.8	1318.6	1276.6	1286.0	1108.9	1085.6
57.5°	12836.3	11112.4	5334.9	1719.3	1267.3	1318.6	1346.5	1313.9	1299.9	1132.2	1085.6
60°	13977.8	11871.9	5209.1	1430.4	1155.5	1253.3	1379.1	1295.3	1192.8	1122.9	1090.3
62.5°	15086.8	12510.2	4663.9	1225.4	1071.6	1234.7	1360.5	1225.4	1108.9	1108.9	1094.9
65°	15892.8	12794.4	3648.2	1076.3	1015.7	1211.4	1327.9	1178.8	1085.6	1118.2	1099.6
67.5°	15986.0	12500.9	2450.8	959.8	969.1	1169.5	1253.3	1136.9	1062.3	1146.2	1118.2
70°	15412.9	11736.7	1500.3	871.3	908.6	1094.9	1188.1	1094.9	1029.7	1122.9	1081.0
72.5°	13926.6	10311.0	1057.7	796.7	843.3	1025.0	1127.5	1057.7	983.1	1015.7	973.8
75°	11424.6	7990.7	838.7	726.8	778.1	959.8	1076.3	1001.7	927.2	913.2	885.3
77.5°	8093.2	5120.6	675.6	670.9	708.2	880.6	1006.4	936.5	862.0	834.0	815.4
80°	4654.6	2511.4	582.4	605.7	643.0	801.4	922.5	862.0	792.1	750.1	722.2
82.5°	1779.8	875.9	512.5	526.5	568.4	717.5	838.7	787.4	717.5	754.8	633.7
85°	577.8	479.9	419.3	433.3	475.2	596.4	740.8	698.9	619.7	549.8	507.9
87.5°	256.3	260.9	223.6	246.9	298.2	396.0	540.5	512.5	452.0	377.4	363.4
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)