

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: P400360

Luminaire Tested: **ARCH-L-PA3-270-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
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-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32008 lumens
Efficiency: N/A
Efficacy: 117.2 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

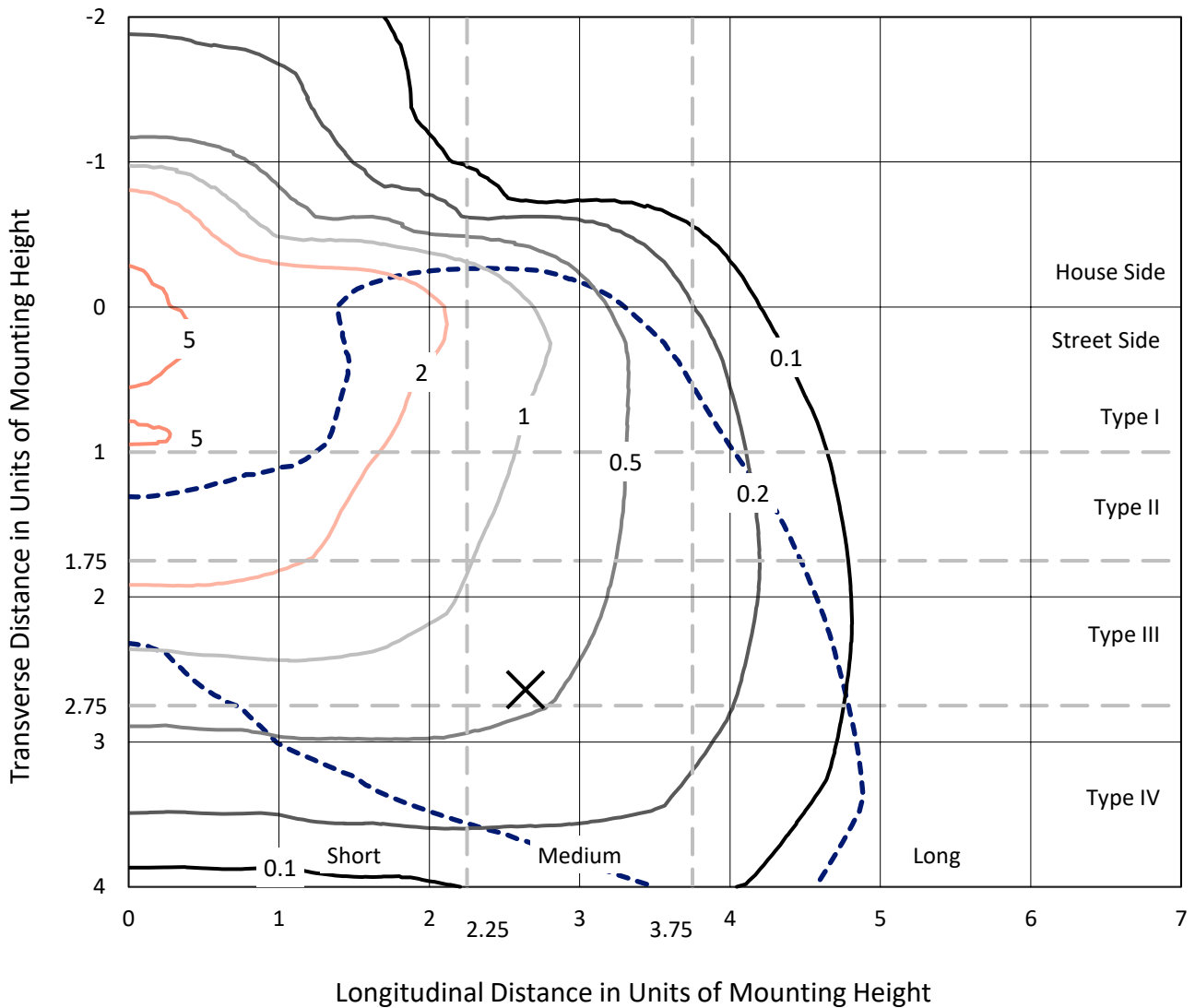
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

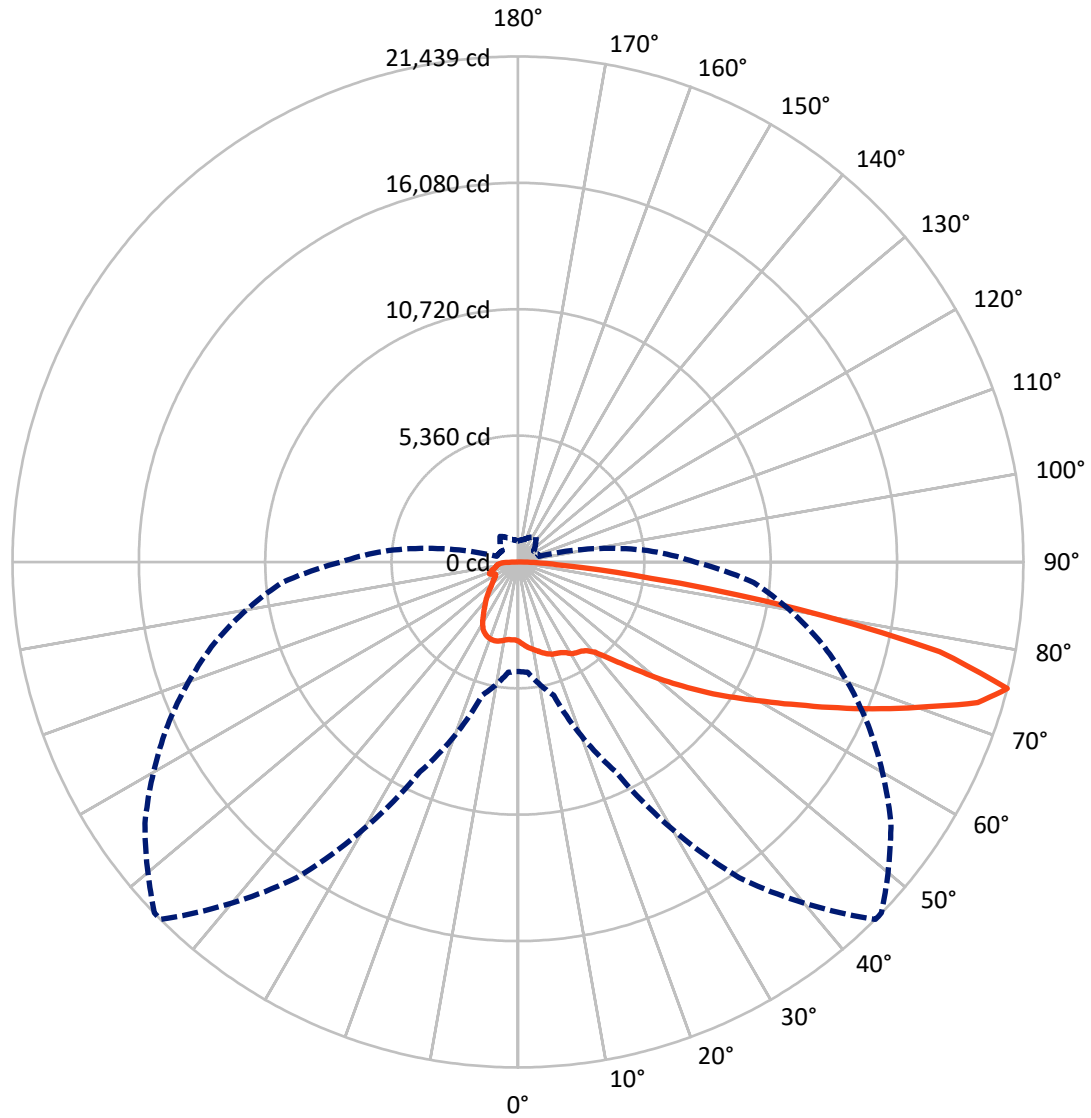
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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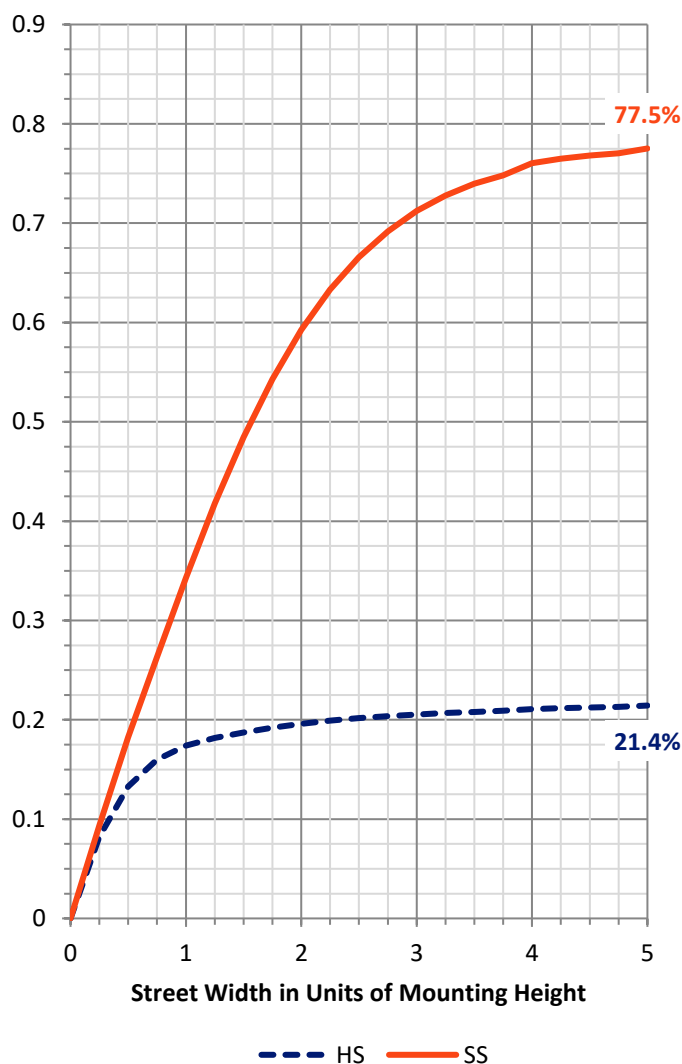
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7073.6	0.0	7073.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	24934.4	0.0	24934.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	32008.0	0.0	32008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.5	1.0
10°-20°	1058.0	3.3
20°-30°	1803.7	5.6
30°-40°	2527.2	7.9
40°-50°	3712.8	11.6
50°-60°	5909.0	18.5
60°-70°	8405.5	26.3
70°-80°	7037.9	22.0
80°-90°	1221.4	3.8
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°	32008.0	100.0
0°-180°	32008.0	100.0

Coefficient of Utilization

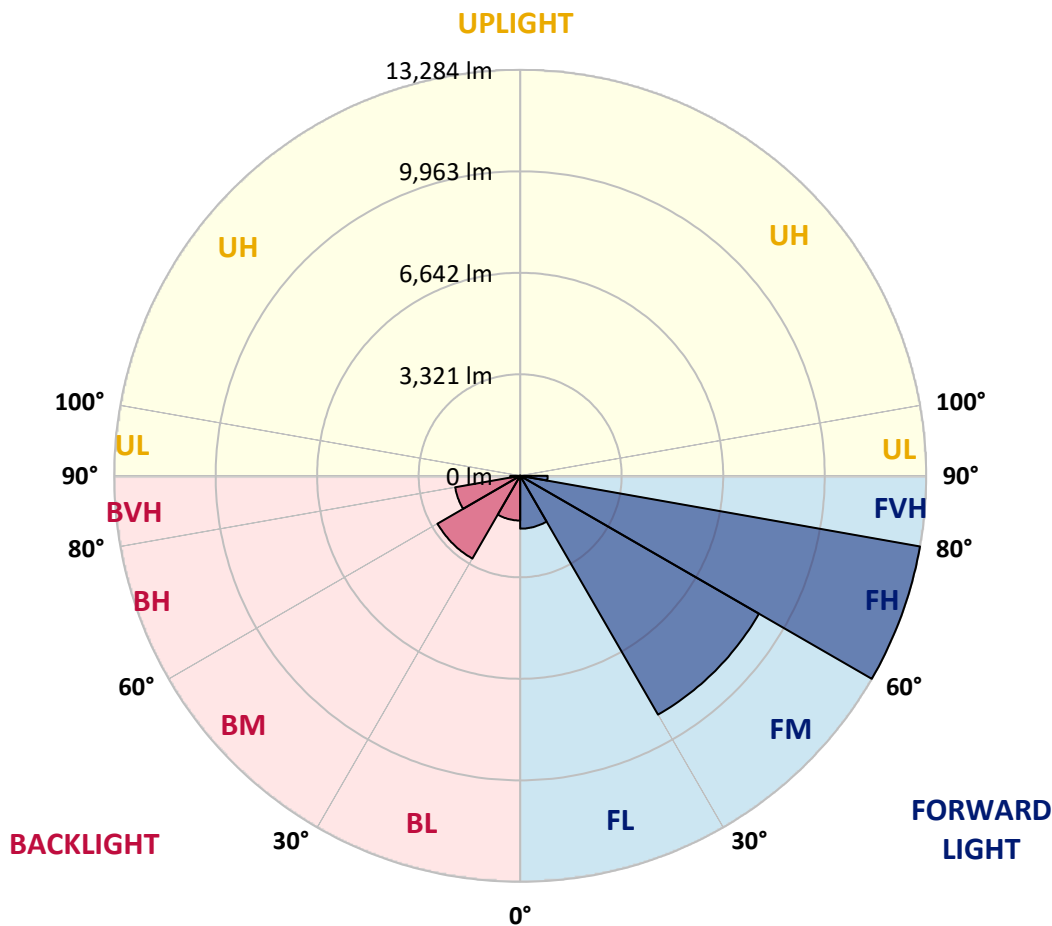


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1730.2	5.4			
FM (30°-60°)	9022.1	28.2			
FH (60°-80°)	13284.1	41.5			G5
FVH (80°-90°)	898.0	2.8			G5
BL (0°-30°)	1464.0	4.6	B3/2500		
BM (30°-60°)	3126.9	9.8	B3/5000		
BH (60°-80°)	2159.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	323.5	1.0			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°	46°	55°	65°	75°	85°
0°	3361.5	3361.5	3361.5	3361.5	3361.5	3361.5	3361.5	3361.5	3361.5	3361.5	3361.5
2.5°	3554.0	3536.9	3528.3	3528.3	3494.1	3472.7	3468.5	3438.5	3412.9	3387.2	3365.8
5°	3759.3	3746.4	3720.8	3699.4	3652.4	3592.5	3583.9	3519.8	3455.6	3395.8	3344.4
7.5°	3947.5	3921.8	3891.9	3849.1	3772.1	3690.9	3678.0	3588.2	3498.4	3408.6	3340.2
10°	4105.7	4080.0	4037.3	3977.4	3879.0	3780.7	3767.8	3673.7	3579.7	3472.7	3374.4
12.5°	4255.4	4234.0	4169.8	4088.6	3973.1	3883.3	3870.5	3789.2	3690.9	3571.1	3442.8
15°	4383.7	4362.3	4293.9	4199.8	4067.2	3998.8	3981.7	3904.7	3806.3	3678.0	3545.4
17.5°	4447.8	4447.8	4375.1	4272.5	4148.5	4097.1	4084.3	3990.2	3900.4	3776.4	3643.8
20°	4469.2	4477.8	4426.5	4302.4	4195.5	4174.1	4161.3	4084.3	3981.7	3861.9	3737.9
22.5°	4482.1	4499.2	4456.4	4315.3	4225.4	4212.6	4204.1	4152.7	4071.5	3956.0	3832.0
25°	4524.8	4524.8	4494.9	4336.6	4263.9	4259.7	4259.7	4229.7	4174.1	4075.8	3951.7
27.5°	4589.0	4584.7	4546.2	4383.7	4349.5	4362.3	4358.0	4353.8	4315.3	4216.9	4084.3
30°	4695.9	4695.9	4653.1	4477.8	4456.4	4512.0	4516.3	4524.8	4464.9	4311.0	4204.1
32.5°	4858.4	4841.3	4798.5	4571.9	4537.7	4589.0	4597.5	4593.2	4541.9	4396.5	4345.2
35°	5358.8	5320.3	5166.3	4781.4	4610.4	4640.3	4644.6	4666.0	4674.5	4559.0	4533.4
37.5°	6235.5	6184.2	5949.0	5277.5	4841.3	4768.6	4764.3	4819.9	4867.0	4764.3	4764.3
40°	7189.2	7146.5	7009.6	6132.9	5269.0	5029.5	5012.4	5063.7	5123.6	5050.9	5072.2
42.5°	8010.4	8044.6	8057.4	7039.6	5910.5	5517.0	5470.0	5397.3	5491.4	5427.2	5512.8
45°	8626.2	8609.1	8844.4	7967.6	6740.2	6128.6	6064.5	5867.7	5987.5	5983.2	6171.4
47.5°	9280.6	9250.7	9349.0	8840.1	7685.4	6877.0	6778.7	6487.9	6667.5	6791.5	7103.7
50°	9900.7	9909.3	9943.5	9528.6	8711.8	7788.0	7664.0	7274.8	7531.4	7792.3	8232.8
52.5°	10709.0	10649.2	10606.4	10332.7	9862.2	8737.4	8656.2	8211.4	8570.6	8878.6	9464.5
55°	11414.7	11376.2	11350.5	11337.7	10824.5	9785.2	9699.7	9237.8	9755.3	9973.4	10837.3
57.5°	12167.4	12146.0	12282.9	12501.0	12295.7	10850.2	10760.4	10315.6	10892.9	11046.9	12325.6
60°	12719.1	12731.9	13108.3	13664.3	13523.1	12004.9	11898.0	11504.5	12000.6	12137.5	13814.0
62.5°	12723.4	12851.7	13724.2	14720.6	14883.2	13335.0	13210.9	12783.3	13138.2	13138.2	15148.3
65°	11508.8	11654.2	13613.0	14981.5	16260.3	14917.4	14797.6	14126.2	14258.7	14079.1	16401.4
67.5°	10298.5	10469.5	12312.8	15002.9	17226.8	16611.0	16469.8	15469.1	15242.4	14789.1	17278.1
70°	9494.4	9614.2	11153.8	14724.9	17808.5	18381.6	18274.6	16743.6	16016.5	15383.5	17094.2
72.5°	7993.3	7950.5	9421.7	13403.4	18133.5	20391.6	20301.8	18129.2	16688.0	15101.3	14579.5
75°	4640.3	4691.6	5846.3	9819.5	16345.8	21439.4	21430.9	19313.9	16392.9	13339.2	10046.1
77.5°	1338.6	1377.1	1920.3	4315.3	10337.0	18287.5	18873.4	17663.1	13856.7	9507.3	5209.1
80°	585.9	615.9	834.0	1437.0	4452.1	11945.0	12458.2	11945.0	8356.8	4362.3	2044.3
82.5°	346.4	367.8	543.1	889.6	2134.1	5683.8	6376.7	5568.4	3605.3	1851.8	846.8
85°	196.7	205.3	312.2	564.5	1342.9	1988.7	2232.5	2091.3	1757.8	1052.1	444.8
87.5°	89.8	94.1	154.0	265.2	752.7	671.5	697.1	923.8	1017.9	641.5	222.4
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°	3361.5	3361.5	3361.5	3361.5	3361.5	3361.5	3361.5	3361.5	3361.5	3361.5	3361.5
2.5°	3357.3	3344.4	3318.8	3310.2	3297.4	3301.7	3305.9	3305.9	3310.2	3297.4	3297.4
5°	3323.0	3301.7	3276.0	3276.0	3276.0	3310.2	3340.2	3357.3	3365.8	3365.8	3357.3
7.5°	3310.2	3284.6	3254.6	3263.2	3271.7	3314.5	3370.1	3425.7	3442.8	3442.8	3434.2
10°	3335.9	3310.2	3288.8	3301.7	3323.0	3357.3	3400.0	3451.4	3494.1	3498.4	3494.1
12.5°	3395.8	3365.8	3344.4	3370.1	3395.8	3417.1	3438.5	3459.9	3515.5	3524.1	3524.1
15°	3494.1	3464.2	3438.5	3459.9	3468.5	3468.5	3468.5	3468.5	3524.1	3532.6	3532.6
17.5°	3592.5	3566.8	3541.2	3545.4	3519.8	3485.6	3472.7	3468.5	3498.4	3524.1	3528.3
20°	3686.6	3665.2	3639.5	3596.8	3532.6	3468.5	3447.1	3447.1	3464.2	3502.7	3502.7
22.5°	3789.2	3763.6	3720.8	3622.4	3515.5	3425.7	3404.3	3417.1	3438.5	3489.8	3485.6
25°	3904.7	3870.5	3797.8	3613.9	3459.9	3353.0	3357.3	3395.8	3434.2	3489.8	3489.8
27.5°	4033.0	3985.9	3840.5	3545.4	3335.9	3233.2	3271.7	3361.5	3417.1	3477.0	3485.6
30°	4174.1	4131.4	3874.8	3425.7	3134.9	3040.8	3134.9	3280.3	3365.8	3421.4	3434.2
32.5°	4345.2	4311.0	3904.7	3271.7	2874.0	2792.7	2929.6	3109.2	3246.1	3310.2	3323.0
35°	4559.0	4524.8	3943.2	3096.4	2630.2	2544.7	2668.7	2852.6	3032.2	3113.5	3139.1
37.5°	4837.0	4785.7	3977.4	2908.2	2424.9	2326.6	2386.4	2553.2	2715.7	2826.9	2856.9
40°	5192.0	5110.7	4007.3	2694.4	2245.3	2134.1	2155.5	2236.8	2330.8	2429.2	2467.7
42.5°	5692.4	5529.9	4011.6	2467.7	2061.4	1958.8	1950.2	1975.9	1975.9	1975.9	1988.7
45°	6389.5	6081.6	4020.2	2253.9	1873.2	1766.3	1740.6	1732.1	1667.9	1543.9	1535.4
47.5°	7270.5	6804.3	4058.7	2074.2	1676.5	1582.4	1548.2	1514.0	1394.2	1265.9	1240.3
50°	8399.6	7642.6	4135.6	1903.2	1509.7	1445.5	1402.8	1321.5	1188.9	1090.6	1064.9
52.5°	9699.7	8639.1	4208.3	1723.5	1385.7	1342.9	1291.6	1193.2	1052.1	992.2	983.7
55°	11192.3	9751.0	4353.8	1565.3	1278.8	1248.8	1201.8	1107.7	1000.8	958.0	953.7
57.5°	12719.1	10995.6	4559.0	1424.2	1176.1	1159.0	1159.0	1077.7	1009.3	992.2	992.2
60°	14190.3	12064.8	4400.8	1291.6	1082.0	1090.6	1171.8	1150.5	1099.1	1120.5	1133.3
62.5°	15332.2	12693.5	3571.1	1184.7	1013.6	1090.6	1300.1	1300.1	1240.3	1231.7	1231.7
65°	15819.8	12684.9	2510.5	1103.4	987.9	1197.5	1449.8	1381.4	1223.2	1163.3	1150.5
67.5°	15695.7	12128.9	1732.1	1047.8	979.4	1308.7	1518.3	1325.8	1146.2	1094.9	1056.4
70°	14605.2	10952.8	1334.4	996.5	966.5	1261.6	1496.9	1261.6	1086.3	1039.3	1005.0
72.5°	11782.5	8784.5	1107.7	945.2	915.2	1167.6	1424.2	1201.8	1039.3	987.9	953.7
75°	7514.3	5525.6	936.6	876.7	816.9	1047.8	1325.8	1141.9	987.9	919.5	893.8
77.5°	3613.9	2382.2	816.9	795.5	735.6	970.8	1227.4	1064.9	919.5	863.9	846.8
80°	1462.7	1090.6	709.9	714.2	675.7	923.8	1159.0	992.2	851.1	791.2	761.3
82.5°	761.3	633.0	598.7	615.9	615.9	881.0	1107.7	932.3	791.2	765.5	667.2
85°	410.6	393.5	461.9	496.1	534.6	795.5	1030.7	868.2	722.8	620.1	598.7
87.5°	201.0	256.6	260.9	299.4	372.1	637.2	868.2	727.1	603.0	500.4	491.8
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)