

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: P399645

Luminaire Tested: **ARCH-L-PA3-170-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-170-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26040 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

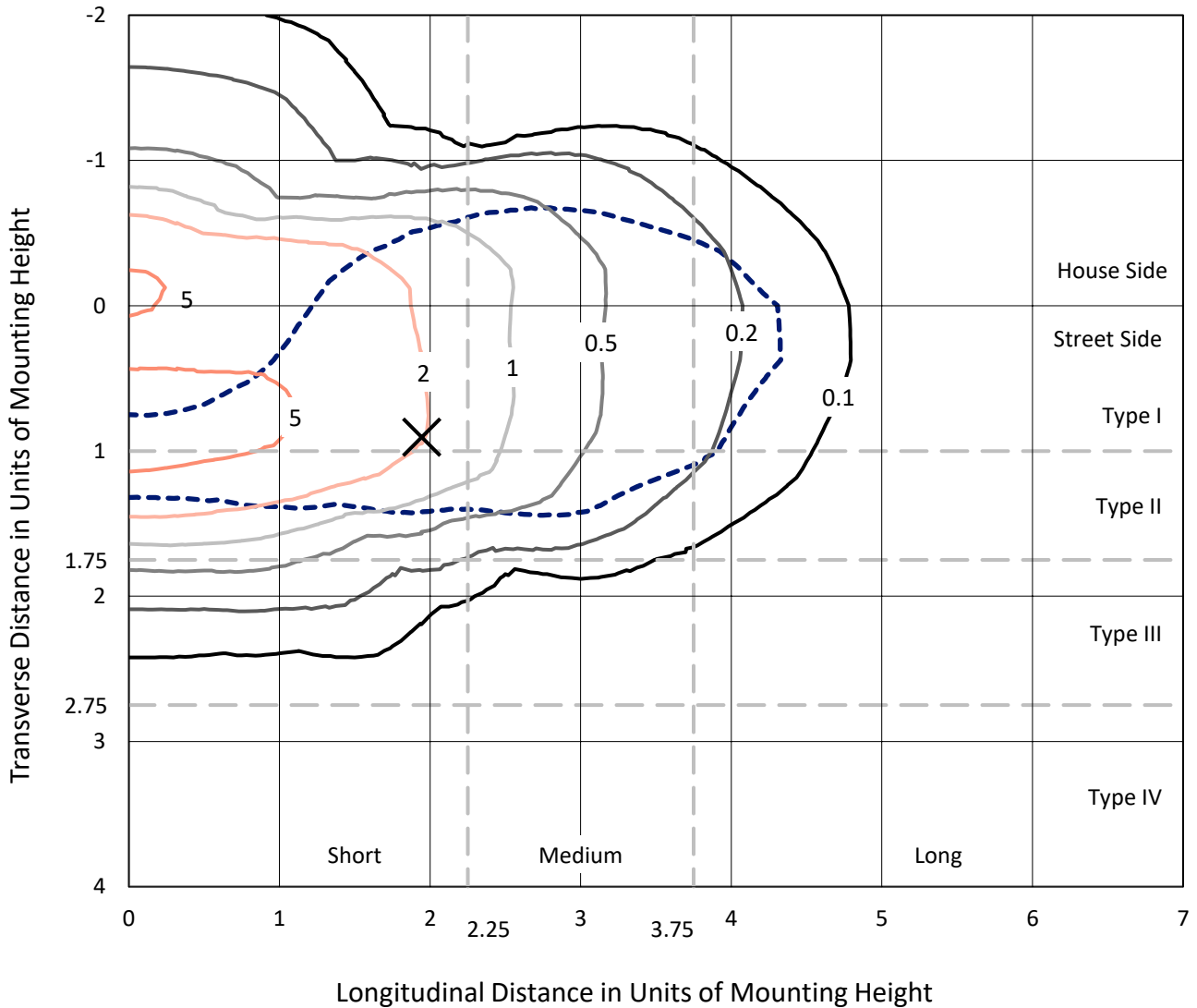
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

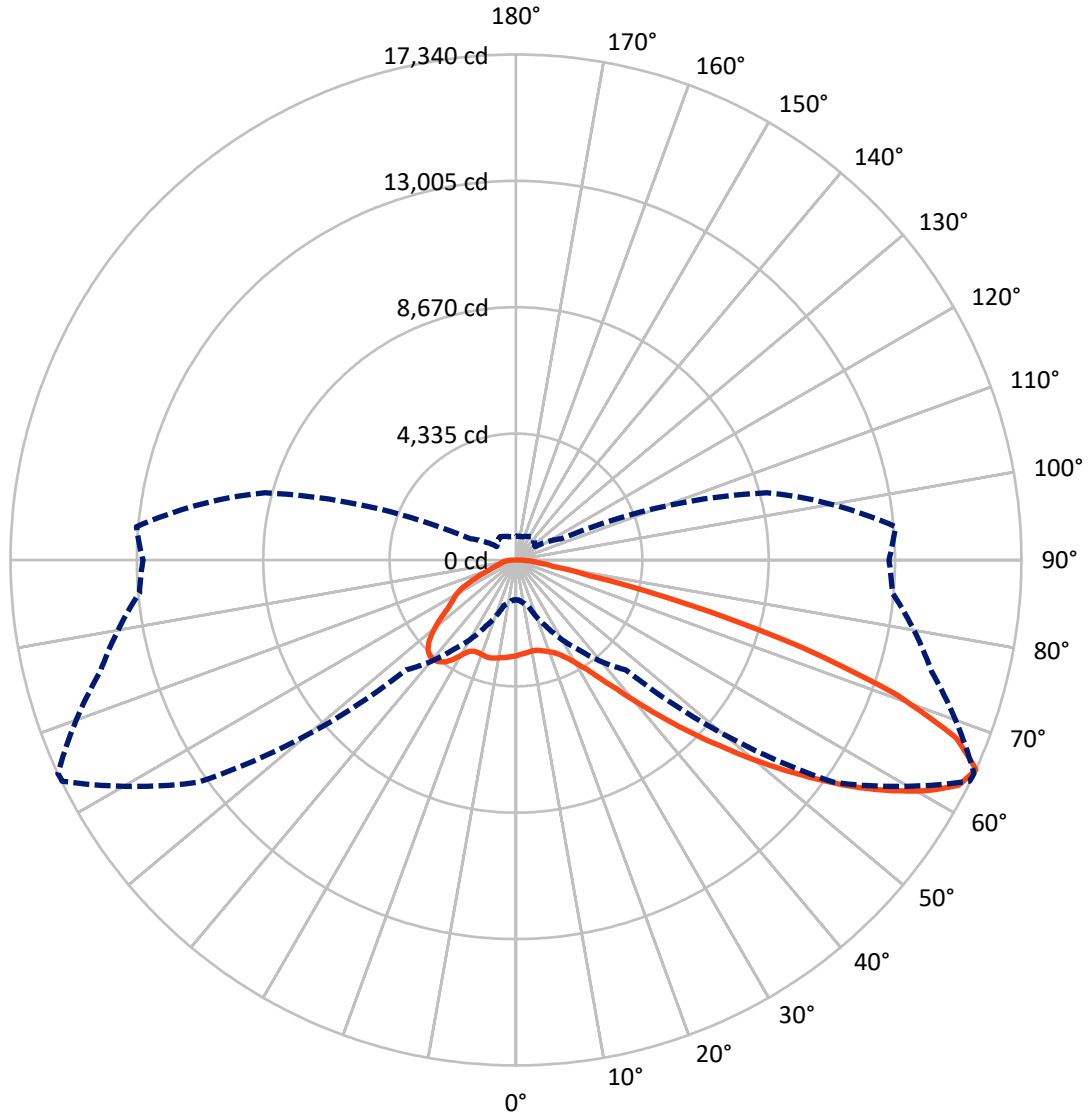
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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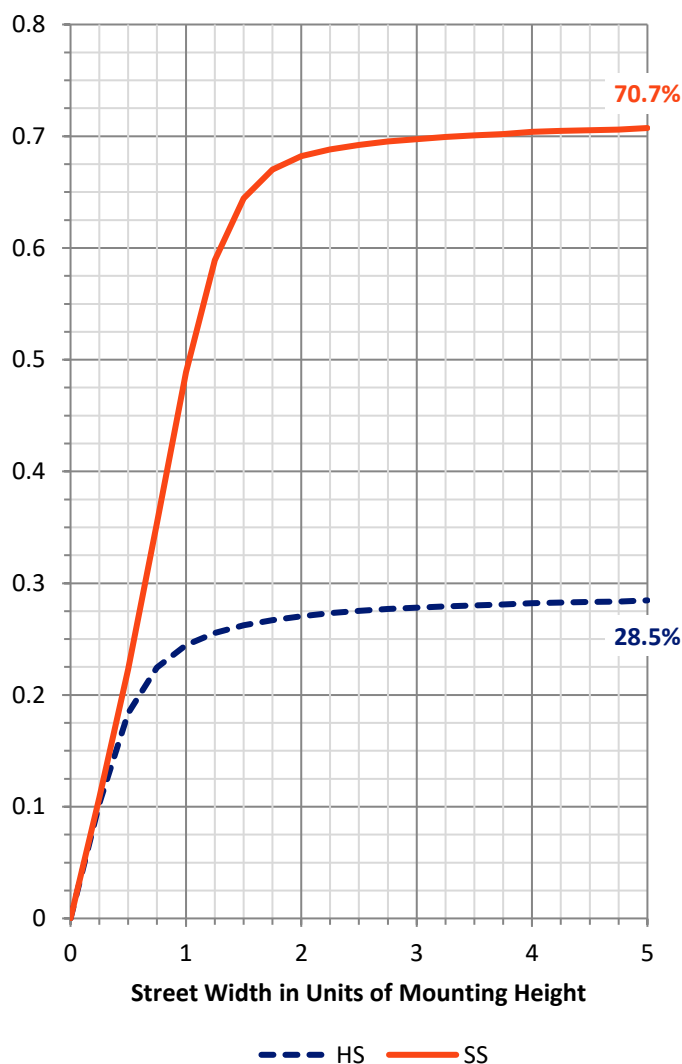
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7528.5	0.0	7528.5
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	18511.4	0.0	18511.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	26040.0	0.0	26040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	1.2
10°-20°	935.9	3.6
20°-30°	1662.5	6.4
30°-40°	2812.5	10.8
40°-50°	4896.0	18.8
50°-60°	6327.2	24.3
60°-70°	5536.7	21.3
70°-80°	3011.6	11.6
80°-90°	544.1	2.1
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°	26040.0	100.0
0°-180°	26040.0	100.0

Coefficient of Utilization

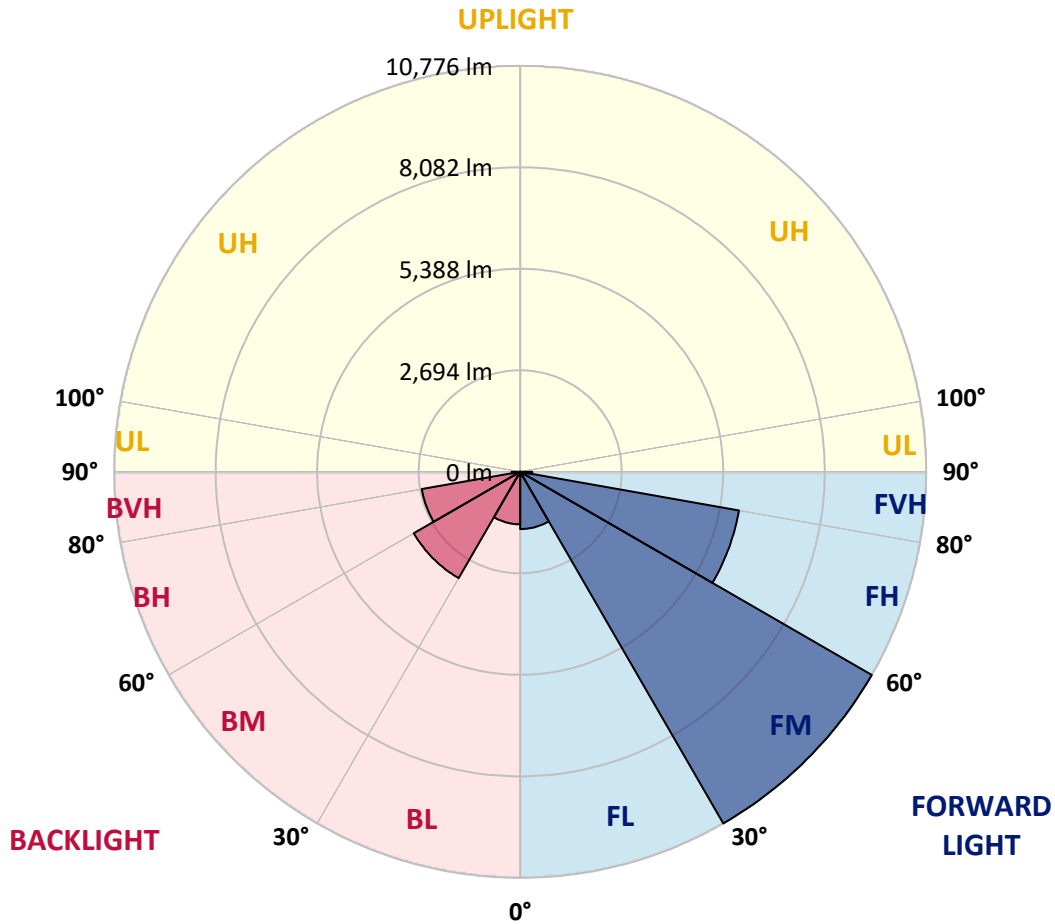


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1519.4	5.8			
FM (30°-60°)	10776.1	41.4			
FH (60°-80°)	5895.8	22.6			G3/7500
FVH (80°-90°)	320.2	1.2			G3/500
BL (0°-30°)	1392.5	5.3	B3/2500		
BM (30°-60°)	3259.7	12.5	B3/5000		
BH (60°-80°)	2652.4	10.2	B4/5000		G4/5000
BVH (80°-90°)	223.9	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4
2.5°	3232.1	3228.7	3221.9	3228.7	3232.1	3239.0	3235.6	3242.4	3239.0	3249.3	3266.4
5°	3149.9	3143.0	3139.6	3156.7	3167.0	3184.2	3191.0	3215.0	3211.6	3228.7	3256.1
7.5°	3057.3	3057.3	3053.9	3074.5	3088.2	3119.0	3143.0	3184.2	3187.6	3218.4	3249.3
10°	2985.4	2988.8	2985.4	3002.5	3023.1	3060.8	3101.9	3160.2	3163.6	3208.1	3239.0
12.5°	2957.9	2957.9	2957.9	2981.9	3009.3	3060.8	3108.7	3170.4	3177.3	3225.3	3252.7
15°	2995.6	2999.1	2992.2	3016.2	3047.1	3108.7	3153.3	3218.4	3225.3	3269.8	3287.0
17.5°	3129.3	3143.0	3125.9	3139.6	3132.7	3180.7	3221.9	3287.0	3290.4	3328.1	3335.0
20°	3393.2	3406.9	3379.5	3362.4	3300.7	3297.3	3314.4	3365.8	3365.8	3389.8	3372.7
22.5°	3801.1	3814.8	3766.8	3701.7	3554.3	3482.3	3444.6	3468.6	3465.2	3475.5	3430.9
25°	4342.6	4339.2	4281.0	4161.0	3924.5	3749.7	3657.1	3619.4	3619.4	3598.9	3544.0
27.5°	5014.4	4963.0	4860.2	4716.2	4387.2	4143.9	3945.1	3849.1	3832.0	3770.3	3667.4
30°	5730.8	5693.1	5545.7	5336.6	4956.2	4644.3	4315.2	4123.3	4113.0	3979.3	3825.1
32.5°	6574.0	6512.3	6347.7	6097.5	5641.7	5203.0	4791.7	4500.3	4483.2	4270.7	4058.2
35°	7657.0	7605.6	7286.9	7036.7	6450.6	5874.7	5388.0	5000.7	4987.0	4726.5	4455.8
37.5°	8956.1	8822.4	8513.9	8044.4	7427.4	6745.3	6128.4	5641.7	5624.5	5336.6	4993.9
40°	10114.6	9994.6	9720.4	9288.5	8627.0	7869.6	7033.2	6443.7	6426.6	6077.0	5645.1
42.5°	10971.4	10889.2	10711.0	10460.7	9987.7	9528.5	8188.3	7413.7	7382.8	6930.4	6392.3
45°	11468.4	11403.3	11300.5	11362.2	11355.3	11269.6	9566.2	8568.8	8469.4	7883.3	7225.2
47.5°	11348.5	11290.2	11331.3	11811.2	12472.7	12969.7	11170.2	9751.3	9617.6	8853.2	8112.9
50°	10481.3	10505.3	10721.2	11639.8	13123.9	14227.6	12949.1	11098.3	10920.0	9830.1	8956.1
52.5°	8901.2	8959.5	9483.9	10769.2	13051.9	15043.3	14556.6	12489.8	12253.3	10782.9	9723.8
55°	7070.9	7218.3	7897.0	9247.4	12112.8	15101.6	15770.0	13888.3	13627.8	11677.5	10392.2
57.5°	5230.4	5449.7	6234.6	7475.4	10313.4	14179.6	16376.6	15225.0	14909.6	12565.2	11098.3
60°	3317.8	3451.5	4356.4	5819.9	7893.5	11924.3	16297.8	16362.9	16088.7	13449.5	11835.2
62.5°	2118.2	2183.3	2639.2	4150.7	5518.3	8829.3	15437.5	17223.2	17038.1	14255.0	12534.4
65°	1360.7	1388.1	1621.2	2553.5	3756.5	5329.8	13295.3	17315.8	17339.7	14758.8	12966.3
67.5°	1107.1	1120.8	1206.5	1576.7	2656.3	2944.2	9261.1	15999.6	16290.9	14628.6	12818.9
70°	1007.7	1024.8	1113.9	1257.9	2056.5	2032.5	4483.2	13387.8	13864.3	13878.0	12164.2
72.5°	850.0	874.0	994.0	1189.3	1590.4	1604.1	1898.8	9535.3	10238.0	12404.1	11180.5
75°	709.5	723.2	826.0	1048.8	1347.0	1281.9	1333.3	5055.6	6070.1	9946.6	10135.1
77.5°	575.8	589.5	664.9	836.3	1196.2	997.4	1048.8	2094.2	2587.8	6752.2	8284.3
80°	411.3	425.0	510.7	651.2	904.9	898.0	778.0	1155.1	1254.5	3650.3	5381.2
82.5°	294.8	305.0	387.3	466.1	627.2	901.4	586.1	784.9	822.6	1617.8	2169.6
85°	198.8	198.8	267.3	308.5	404.4	569.0	473.0	531.3	555.3	767.8	586.1
87.5°	85.7	85.7	144.0	157.7	212.5	263.9	353.0	267.3	274.2	414.7	239.9
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°	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4
2.5°	3276.7	3280.1	3287.0	3307.5	3321.3	3341.8	3352.1	3365.8	3365.8	3359.0	3362.4
5°	3269.8	3280.1	3304.1	3341.8	3365.8	3403.5	3430.9	3451.5	3458.4	3451.5	3454.9
7.5°	3266.4	3283.5	3324.7	3379.5	3413.8	3461.8	3499.5	3523.5	3540.6	3533.8	3537.2
10°	3256.1	3283.5	3335.0	3403.5	3454.9	3502.9	3537.2	3547.5	3557.8	3550.9	3547.5
12.5°	3269.8	3300.7	3355.5	3437.8	3496.1	3533.8	3544.0	3526.9	3502.9	3489.2	3485.8
15°	3297.3	3328.1	3382.9	3468.6	3520.0	3533.8	3509.8	3454.9	3400.1	3369.2	3365.8
17.5°	3335.0	3355.5	3400.1	3475.5	3516.6	3499.5	3451.5	3386.4	3345.2	3321.3	3324.7
20°	3359.0	3359.0	3393.2	3451.5	3485.8	3472.1	3413.8	3341.8	3276.7	3245.8	3235.6
22.5°	3393.2	3376.1	3379.5	3430.9	3478.9	3458.4	3335.0	3208.1	3115.6	3081.3	3077.9
25°	3485.8	3437.8	3406.9	3437.8	3550.9	3382.9	3136.2	2988.8	2903.1	2872.2	2875.7
27.5°	3598.9	3533.8	3468.6	3520.0	3609.2	3211.6	2882.5	2714.6	2663.2	2639.2	2649.5
30°	3712.0	3626.3	3540.6	3725.7	3568.0	2944.2	2556.9	2392.4	2347.8	2330.7	2344.4
32.5°	3921.1	3780.5	3677.7	3999.9	3441.2	2639.2	2203.9	2053.1	2011.9	1991.4	1984.5
35°	4270.7	4092.4	3989.6	4239.8	3263.0	2299.9	1881.7	1775.4	1730.9	1686.3	1679.5
37.5°	4774.5	4558.6	4466.0	4376.9	3012.8	1964.0	1634.9	1562.9	1497.8	1429.3	1425.8
40°	5377.8	5096.7	5028.1	4438.6	2666.6	1648.6	1463.5	1395.0	1312.7	1247.6	1251.0
42.5°	6073.5	5713.7	5566.3	4421.5	2238.2	1480.7	1340.2	1264.7	1192.8	1134.5	1131.1
45°	6817.3	6409.4	6070.1	4301.5	1813.2	1364.1	1264.7	1175.6	1103.7	1038.5	1031.7
47.5°	7639.9	7184.1	6536.3	4068.4	1497.8	1281.9	1220.2	1093.4	1028.3	987.1	987.1
50°	8469.4	7924.4	6964.7	3715.4	1312.7	1220.2	1155.1	1048.8	997.4	963.1	963.1
52.5°	9178.9	8695.6	7317.7	3293.8	1196.2	1168.8	1110.5	1028.3	973.4	942.6	939.1
55°	9867.8	9411.9	7633.1	2875.7	1100.2	1100.2	1100.2	1011.1	949.4	922.0	918.6
57.5°	10553.3	10166.0	7962.1	2601.5	1014.5	1042.0	1079.7	990.5	928.9	904.9	901.4
60°	11327.9	11070.8	8342.5	2409.5	939.1	980.3	1052.2	966.6	894.6	874.0	870.6
62.5°	12150.5	12150.5	8688.7	2138.8	870.6	928.9	1011.1	935.7	863.7	846.6	843.2
65°	12794.9	13072.5	8911.5	1734.3	802.0	877.4	963.1	894.6	822.6	819.2	812.3
67.5°	12870.3	13305.6	8771.0	1309.3	740.3	822.6	915.1	850.0	781.5	781.5	771.2
70°	12328.7	12770.9	8332.3	980.3	695.8	767.8	853.4	795.2	730.1	736.9	719.8
72.5°	11423.9	11533.6	7242.3	774.6	644.4	709.5	778.0	733.5	675.2	675.2	651.2
75°	10231.1	9621.0	5261.2	647.8	582.7	640.9	702.6	664.9	613.5	596.4	582.7
77.5°	8143.8	6971.5	3057.3	558.7	531.3	575.8	617.0	589.5	545.0	507.3	507.3
80°	4963.0	4085.6	1350.4	483.3	469.6	503.8	531.3	500.4	462.7	425.0	414.7
82.5°	1888.6	1576.7	654.7	414.7	411.3	431.9	452.4	421.6	394.2	377.0	325.6
85°	517.6	476.4	449.0	346.2	339.3	335.9	359.9	346.2	308.5	253.6	226.2
87.5°	195.4	222.8	243.4	212.5	226.2	209.1	239.9	219.4	195.4	126.8	113.1
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)