

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: P400358

Luminaire Tested: **ARCH-L-PA3-270-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400358
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-PA3-270-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32141 lumens
Efficiency: N/A
Efficacy: 117.7 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

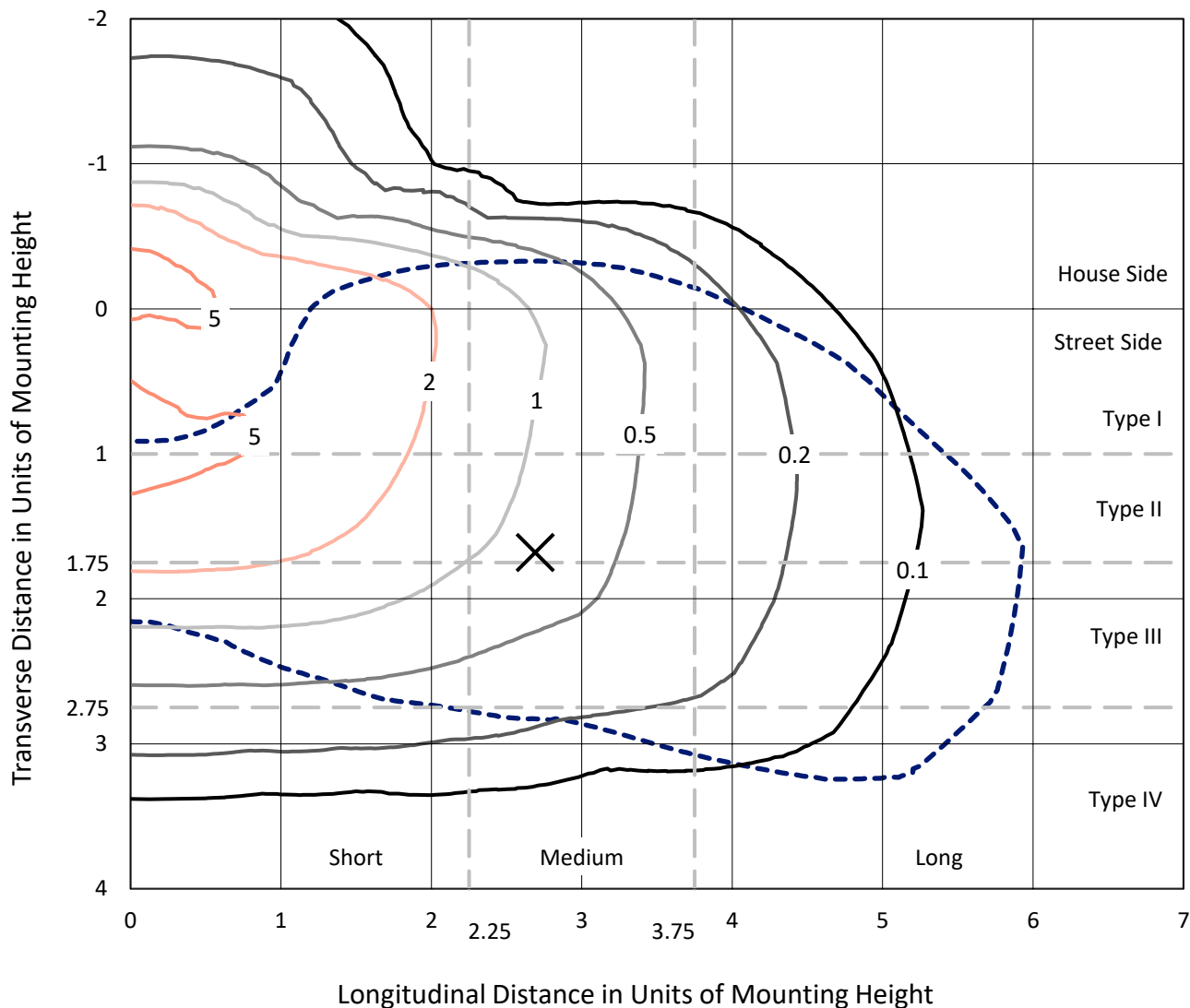
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

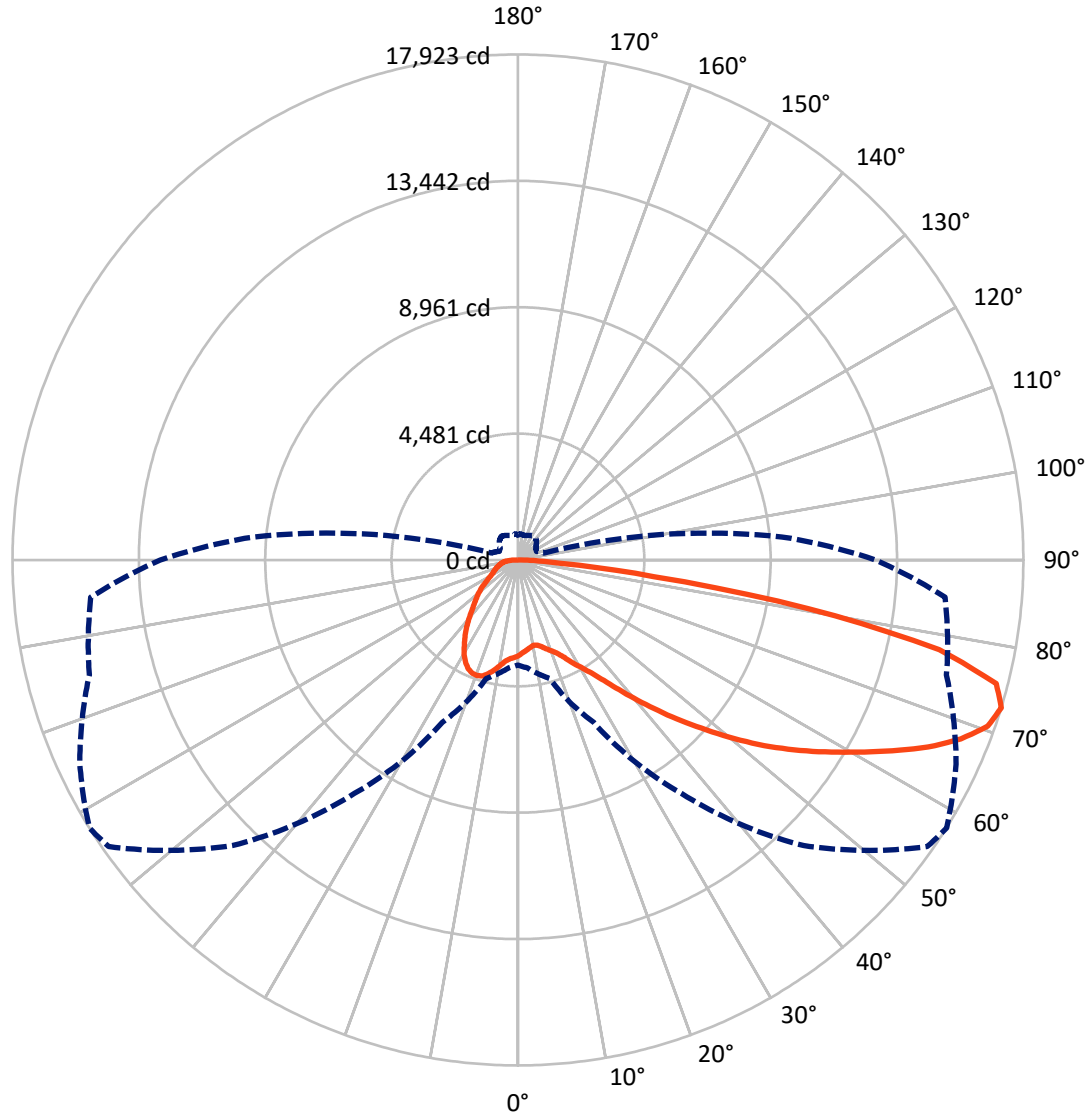
✕ Max cd
 - - - 1/2 Max cd



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

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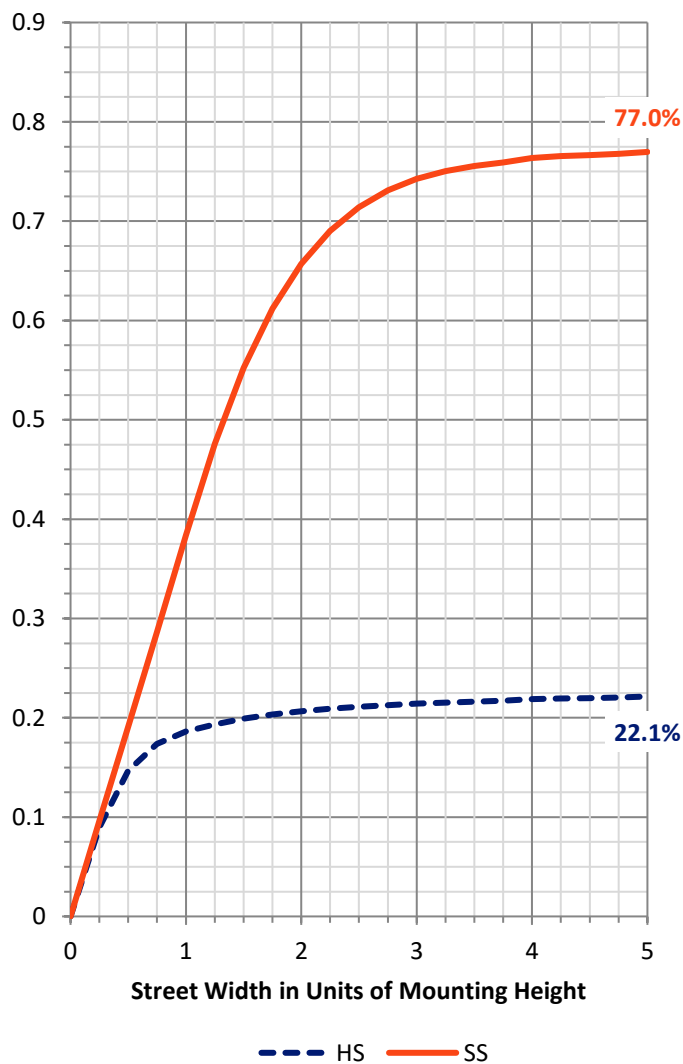
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7289.2	0.0	7289.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	24851.8	0.0	24851.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	32141.0	0.0	32141.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.6	1.0
10°-20°	1037.1	3.2
20°-30°	1857.9	5.8
30°-40°	2794.7	8.7
40°-50°	4525.7	14.1
50°-60°	6812.6	21.2
60°-70°	8017.7	24.9
70°-80°	5685.3	17.7
80°-90°	1083.3	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°	32141.0	100.0
0°-180°	32141.0	100.0



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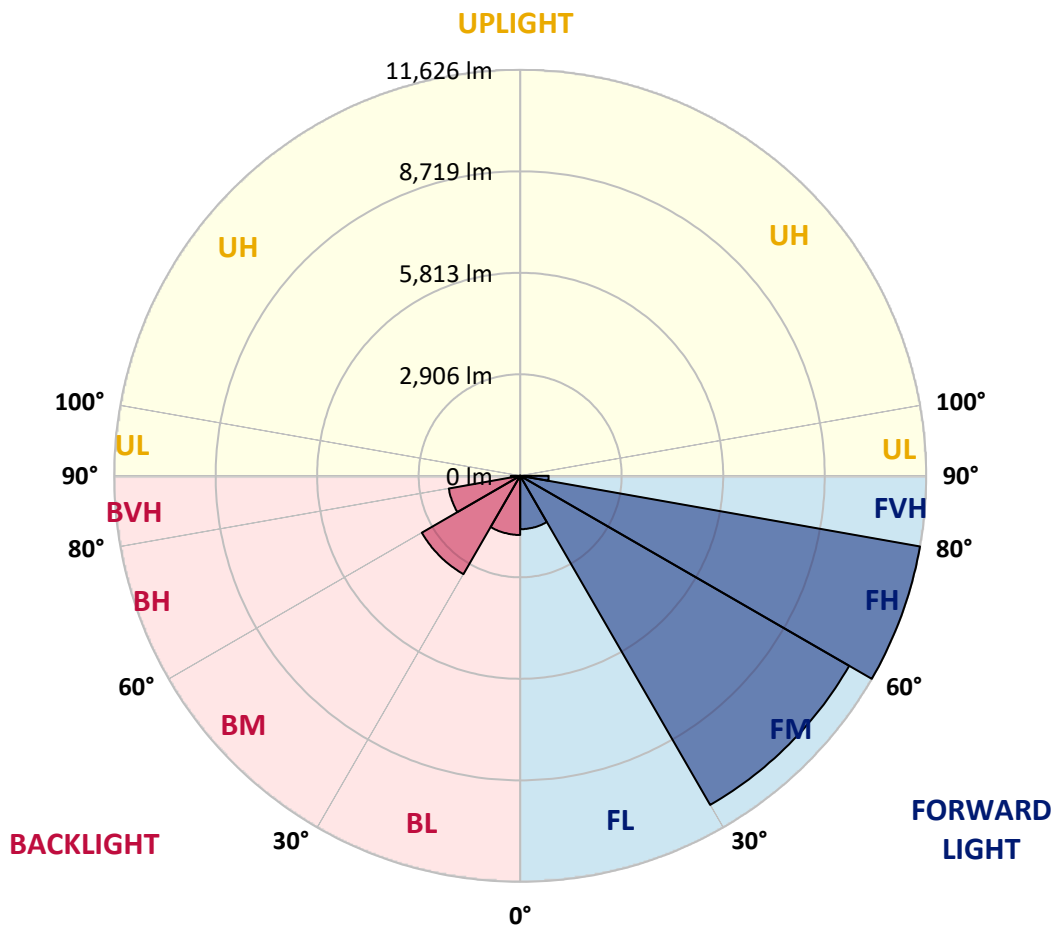
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.4	4.8			
FM (30°-60°)	10880.7	33.9			
FH (60°-80°)	11625.5	36.2			G4/12000
FVH (80°-90°)	817.1	2.5			G5
BL (0°-30°)	1693.2	5.3	B3/2500		
BM (30°-60°)	3252.4	10.1	B3/5000		
BH (60°-80°)	2077.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	266.2	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°	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2
2.5°	3262.9	3245.9	3250.2	3250.2	3267.1	3275.6	3279.9	3292.6	3301.1	3322.3	3352.0
5°	3110.2	3097.4	3101.7	3105.9	3135.6	3165.3	3190.8	3207.7	3233.2	3267.1	3309.6
7.5°	2999.8	2991.3	2995.6	3004.1	3029.5	3063.5	3105.9	3131.4	3169.6	3233.2	3305.3
10°	2919.2	2919.2	2923.5	2940.4	2965.9	3008.3	3042.3	3072.0	3148.3	3262.9	3373.2
12.5°	2855.6	2855.6	2868.3	2902.2	2944.7	2987.1	3067.7	3101.7	3203.5	3360.5	3492.0
15°	2851.3	2855.6	2859.8	2889.5	2936.2	3029.5	3148.3	3199.3	3322.3	3509.0	3661.7
17.5°	2919.2	2923.5	2906.5	2915.0	2970.1	3101.7	3258.7	3318.1	3475.1	3678.7	3835.7
20°	3127.1	3127.1	3076.2	3029.5	3067.7	3212.0	3390.2	3449.6	3623.6	3848.4	4005.4
22.5°	3551.4	3572.6	3453.8	3352.0	3292.6	3373.2	3534.5	3598.1	3793.3	4035.1	4192.1
25°	4064.8	4086.1	3924.8	3780.6	3670.2	3657.5	3763.6	3831.5	3992.7	4243.0	4374.6
27.5°	4561.3	4523.1	4374.6	4238.8	4098.8	3984.2	4064.8	4124.2	4310.9	4501.9	4582.5
30°	4951.6	4921.9	4777.7	4680.1	4548.5	4400.0	4353.4	4417.0	4569.8	4748.0	4790.4
32.5°	5384.4	5363.2	5218.9	5091.7	4981.3	4841.3	4739.5	4769.2	4854.0	4981.3	5006.8
35°	5936.0	5982.7	5829.9	5571.1	5448.1	5312.3	5240.2	5248.6	5312.3	5392.9	5350.5
37.5°	6517.3	6572.5	6581.0	6173.6	6008.2	5885.1	5808.7	5838.4	5914.8	5970.0	5838.4
40°	7595.0	7539.9	7319.3	7018.0	6763.4	6644.6	6538.5	6534.3	6589.4	6687.0	6449.4
42.5°	9025.0	8974.0	8528.5	8138.2	7735.1	7599.3	7391.4	7302.3	7327.7	7450.8	7119.8
45°	10395.5	10374.2	10017.8	9563.8	9080.1	8817.0	8341.8	8125.4	8104.2	8201.8	7807.2
47.5°	11613.2	11519.9	11261.0	10908.9	10857.9	10170.6	9296.5	9003.7	8901.9	8957.1	8515.8
50°	12915.8	12597.6	12241.2	12024.8	12393.9	11753.2	10259.7	9954.2	9703.8	9742.0	9283.8
52.5°	13607.4	13072.8	12839.5	12903.1	13399.5	13153.4	11307.7	10934.3	10531.2	10586.4	10047.5
55°	13013.4	13009.2	13111.0	13505.6	14197.2	13912.9	12304.8	11884.8	11443.5	11456.2	10925.8
57.5°	12198.8	12364.2	12890.4	13760.2	15185.9	14710.6	13285.0	12839.5	12436.4	12372.7	11923.0
60°	11456.2	11638.7	12402.4	13717.8	15529.5	15440.4	14218.4	13828.1	13501.4	13314.7	12971.0
62.5°	10327.6	10463.3	11545.3	13446.2	15241.0	15966.6	15164.6	14897.3	14651.2	14265.1	14099.6
65°	8999.5	9046.2	10187.5	12550.9	14880.4	16170.2	16106.6	15987.8	15750.2	15181.6	15215.6
67.5°	7561.1	7654.5	8655.8	11121.0	14091.1	16076.9	16836.4	16934.0	16653.9	15801.1	15928.4
70°	6029.4	6143.9	6903.4	9143.8	12750.3	15673.8	17511.0	17668.0	17129.2	16004.8	16059.9
72.5°	3729.6	3840.0	4349.1	6351.8	10106.9	14320.3	17719.0	17922.6	17141.9	15733.2	15202.8
75°	1289.9	1302.6	1701.5	3046.5	5999.7	10811.3	17040.1	17519.5	16603.0	14744.6	13229.8
77.5°	589.8	611.0	755.3	1255.9	2660.4	5834.2	14069.9	15270.7	14965.2	13200.1	10183.3
80°	407.3	415.8	521.9	751.0	1536.0	2053.6	8880.7	10446.4	10981.0	10221.5	6525.8
82.5°	305.5	314.0	403.1	509.2	1107.4	997.1	3381.7	4854.0	6033.6	5923.3	2728.3
85°	292.8	288.5	314.0	339.4	738.3	594.0	1094.7	1502.0	2354.9	2015.4	687.4
87.5°	127.3	140.0	322.5	190.9	386.1	275.8	475.2	555.8	717.1	623.7	246.1
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°	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2
2.5°	3364.7	3373.2	3398.7	3436.9	3458.1	3500.5	3530.2	3547.2	3559.9	3564.2	3564.2
5°	3335.0	3352.0	3407.2	3470.8	3530.2	3619.3	3699.9	3746.6	3780.6	3793.3	3797.5
7.5°	3343.5	3385.9	3466.6	3559.9	3636.3	3750.9	3848.4	3941.8	4018.2	4047.9	4047.9
10°	3424.1	3483.5	3593.9	3716.9	3814.5	3933.3	4035.1	4115.8	4204.9	4255.8	4264.3
12.5°	3547.2	3619.3	3763.6	3899.4	4009.7	4103.0	4196.4	4255.8	4298.2	4336.4	4344.9
15°	3721.1	3810.3	3954.5	4094.5	4192.1	4251.5	4277.0	4277.0	4272.7	4277.0	4285.5
17.5°	3895.1	3980.0	4124.2	4264.3	4310.9	4277.0	4247.3	4238.8	4234.6	4226.1	4230.3
20°	4064.8	4145.5	4268.5	4374.6	4336.4	4217.6	4179.4	4175.2	4162.4	4153.9	4145.5
22.5°	4234.6	4294.0	4395.8	4434.0	4281.2	4111.5	4064.8	4039.4	4022.4	4001.2	3980.0
25°	4429.7	4446.7	4523.1	4463.7	4145.5	3916.3	3848.4	3810.3	3793.3	3772.1	3755.1
27.5°	4612.2	4612.2	4624.9	4417.0	3946.0	3657.5	3555.7	3487.8	3483.5	3479.3	3475.1
30°	4777.7	4756.5	4714.0	4277.0	3687.2	3339.3	3186.5	3118.6	3144.1	3165.3	3169.6
32.5°	4972.8	4930.4	4811.6	4086.1	3377.5	2982.9	2796.2	2766.5	2796.2	2821.6	2804.7
35°	5278.3	5202.0	4913.4	3865.4	3080.5	2656.1	2477.9	2435.5	2427.0	2422.8	2388.8
37.5°	5715.4	5583.8	4994.1	3627.8	2787.7	2367.6	2236.1	2147.0	2066.4	1981.5	1968.8
40°	6250.0	6025.1	5049.2	3356.2	2477.9	2125.8	1985.7	1871.2	1735.4	1586.9	1569.9
42.5°	6835.5	6500.3	5074.7	3055.0	2206.4	1926.3	1752.4	1608.1	1455.4	1340.8	1319.6
45°	7467.8	7013.8	5053.5	2766.5	1985.7	1756.6	1561.4	1404.4	1281.4	1200.8	1183.8
47.5°	8083.0	7603.5	4994.1	2537.3	1816.0	1612.4	1412.9	1268.7	1175.3	1086.2	1065.0
50°	8872.2	8167.9	4921.9	2359.1	1629.3	1468.1	1319.6	1166.8	1060.8	1018.3	1009.8
52.5°	9746.3	8732.2	4837.1	2134.3	1446.9	1353.5	1260.2	1124.4	1090.5	1009.8	997.1
55°	10692.5	9402.6	4820.1	1850.0	1285.6	1272.9	1200.8	1162.6	1171.1	1009.8	988.6
57.5°	11689.6	10119.7	4858.3	1565.7	1154.1	1200.8	1226.2	1196.5	1183.8	1031.1	988.6
60°	12729.1	10811.3	4743.7	1302.6	1052.3	1141.4	1255.9	1179.6	1086.2	1022.6	992.9
62.5°	13739.0	11392.6	4247.3	1115.9	975.9	1124.4	1239.0	1115.9	1009.8	1009.8	997.1
65°	14473.0	11651.4	3322.3	980.1	925.0	1103.2	1209.3	1073.5	988.6	1018.3	1001.4
67.5°	14557.9	11384.1	2231.8	874.1	882.6	1065.0	1141.4	1035.3	967.4	1043.8	1018.3
70°	14036.0	10688.2	1366.3	793.4	827.4	997.1	1082.0	997.1	937.7	1022.6	984.4
72.5°	12682.5	9389.9	963.2	725.6	768.0	933.5	1026.8	963.2	895.3	925.0	886.8
75°	10403.9	7276.8	763.7	661.9	708.6	874.1	980.1	912.3	844.4	831.6	806.2
77.5°	7370.2	4663.1	615.2	611.0	644.9	801.9	916.5	852.9	785.0	759.5	742.5
80°	4238.8	2287.0	530.4	551.6	585.5	729.8	840.1	785.0	721.3	683.1	657.7
82.5°	1620.8	797.7	466.7	479.5	517.7	653.4	763.7	717.1	653.4	687.4	577.1
85°	526.1	437.0	381.9	394.6	432.8	543.1	674.6	636.5	564.3	500.7	462.5
87.5°	233.4	237.6	203.7	224.9	271.6	360.7	492.2	466.7	411.6	343.7	331.0
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)