

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: P400007

Luminaire Tested: **ARCH-L-PA3-220-740-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400007
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-PA3-220-740-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30954 lumens
Efficiency: N/A
Efficacy: 139.4 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

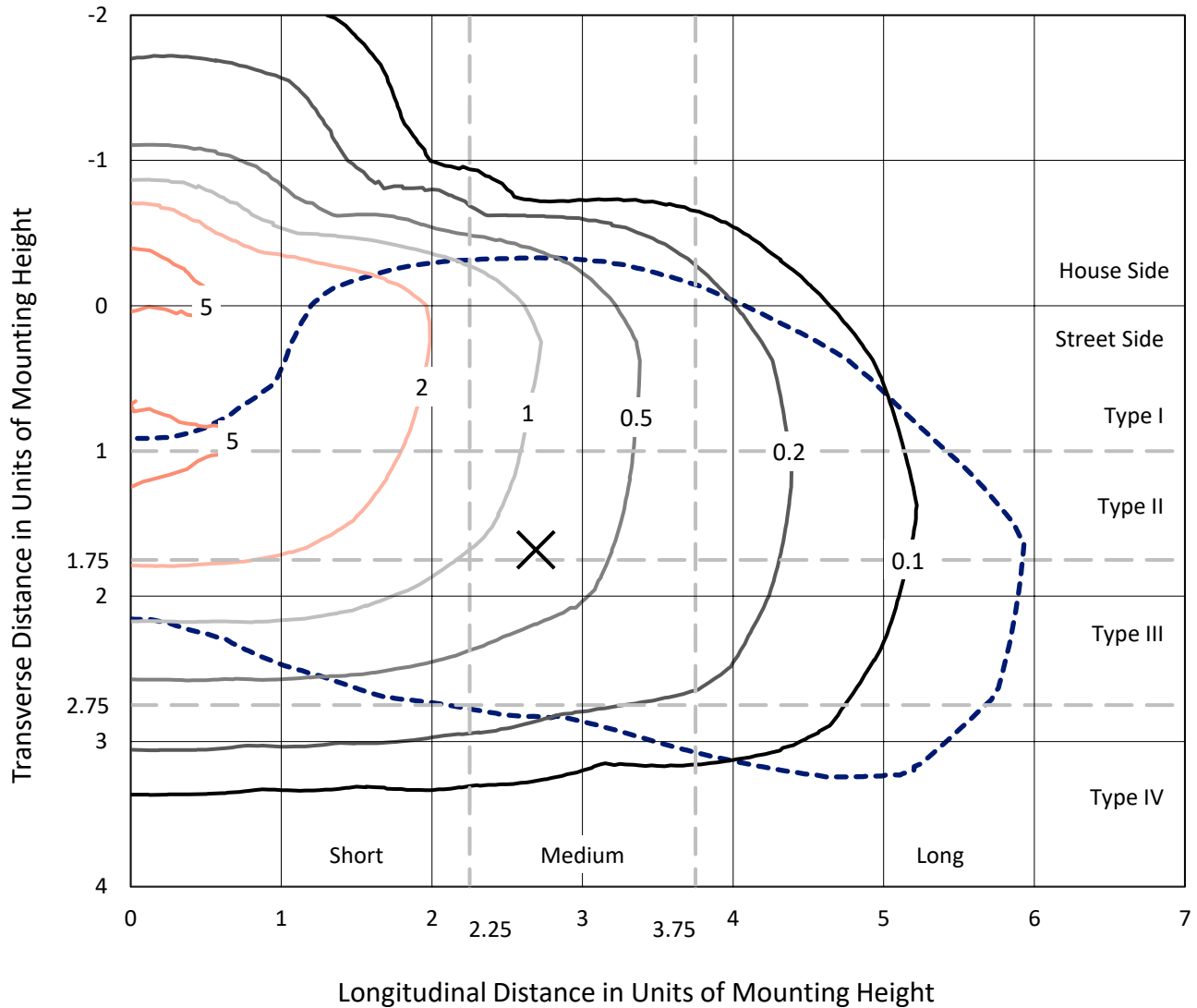
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

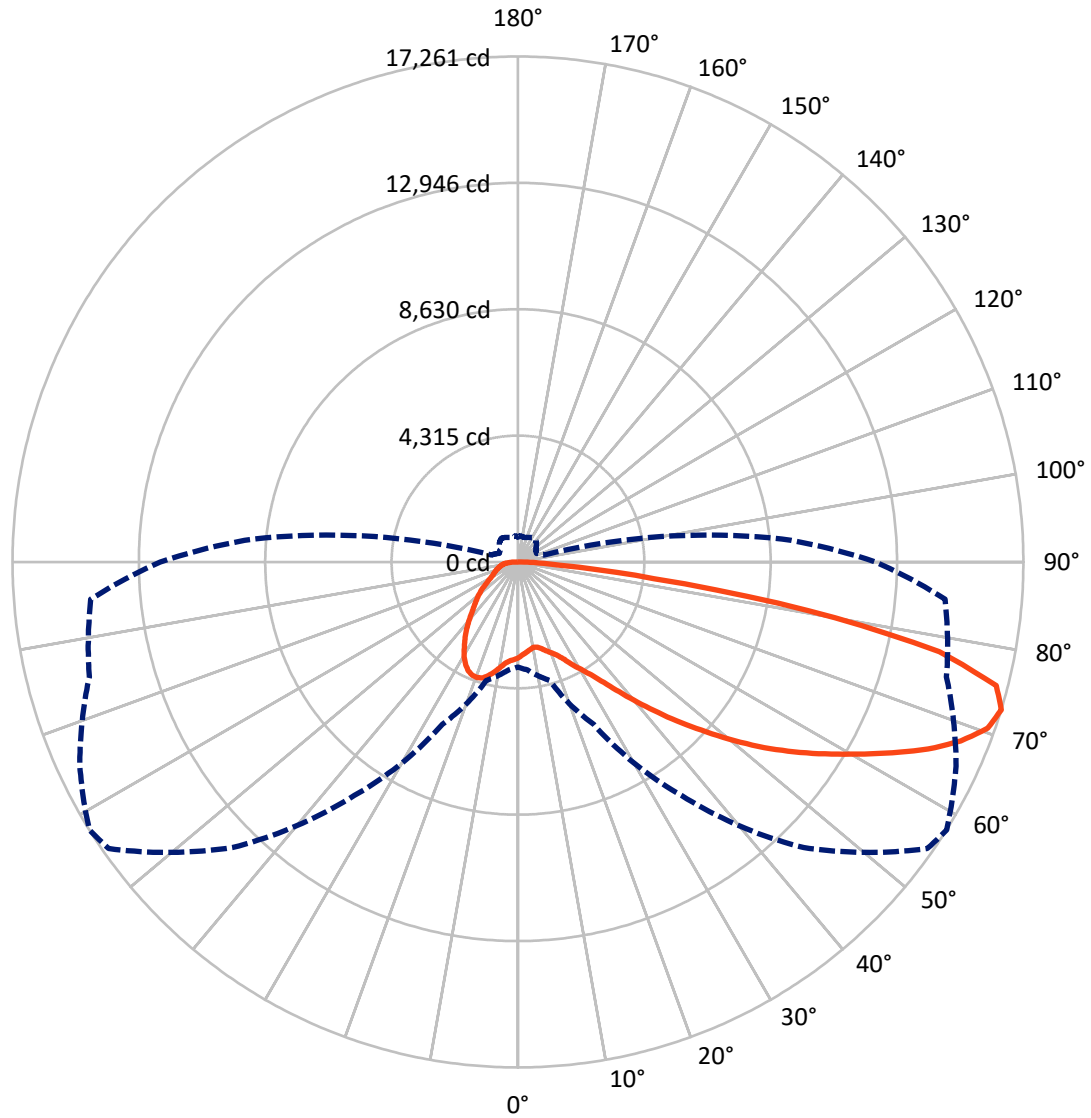
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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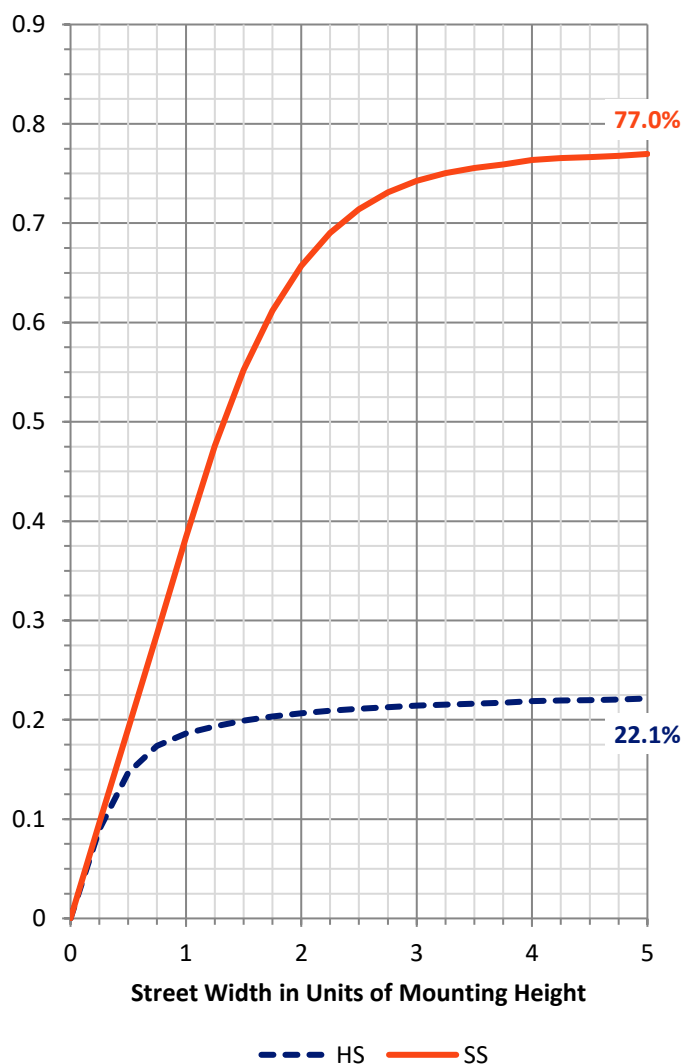
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7020.0	0.0	7020.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	23934.0	0.0	23934.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	30954.0	0.0	30954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	1.0
10°-20°	998.8	3.2
20°-30°	1789.3	5.8
30°-40°	2691.5	8.7
40°-50°	4358.6	14.1
50°-60°	6561.0	21.2
60°-70°	7721.6	24.9
70°-80°	5475.3	17.7
80°-90°	1043.3	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°	30954.0	100.0
0°-180°	30954.0	100.0

Coefficient of Utilization



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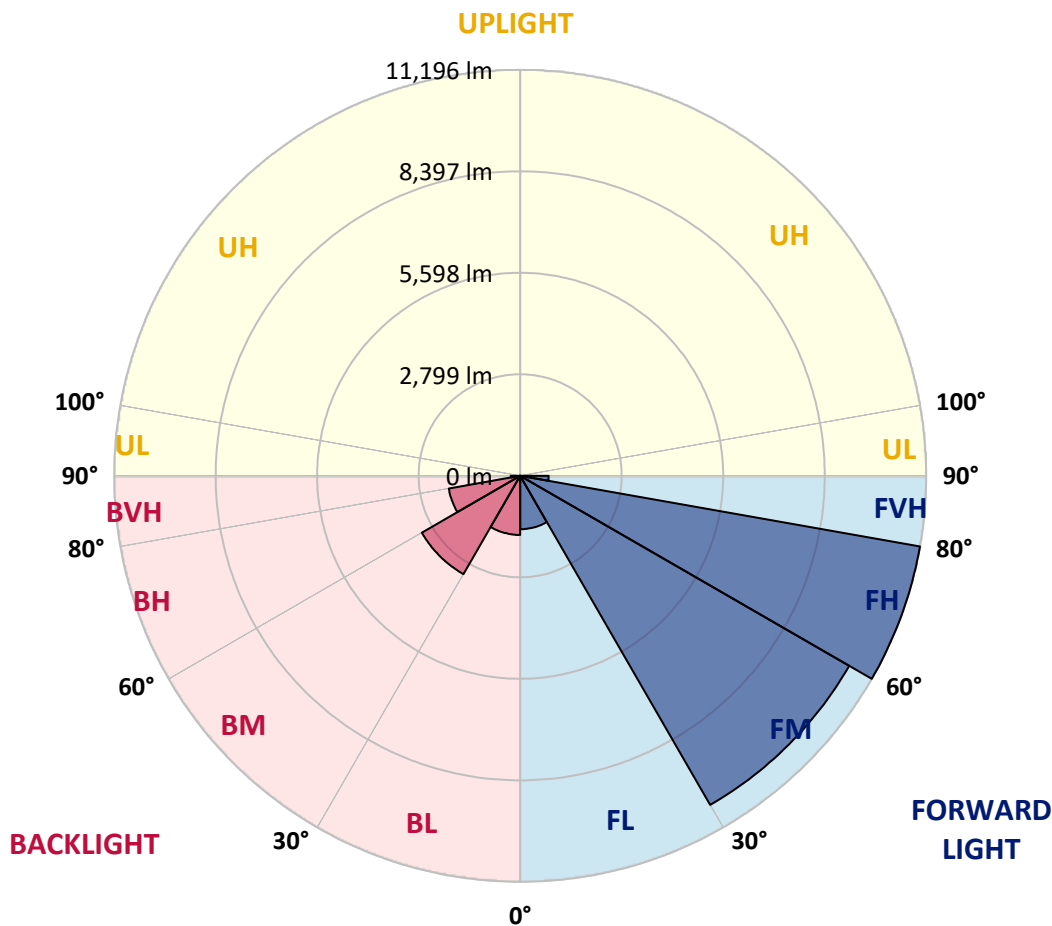
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1472.0	4.8			
FM (30°-60°)	10478.8	33.9			
FH (60°-80°)	11196.2	36.2			G4/12000
FVH (80°-90°)	787.0	2.5			G5
BL (0°-30°)	1630.6	5.3	B3/2500		
BM (30°-60°)	3132.3	10.1	B3/5000		
BH (60°-80°)	2000.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	256.3	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°	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0
2.5°	3142.4	3126.1	3130.1	3130.1	3146.5	3154.7	3158.7	3171.0	3179.2	3199.6	3228.2
5°	2995.3	2983.0	2987.1	2991.2	3019.8	3048.4	3072.9	3089.3	3113.8	3146.5	3187.3
7.5°	2889.0	2880.9	2885.0	2893.1	2917.6	2950.3	2991.2	3015.7	3052.5	3113.8	3183.3
10°	2811.4	2811.4	2815.5	2831.8	2856.4	2897.2	2929.9	2958.5	3032.1	3142.4	3248.6
12.5°	2750.1	2750.1	2762.4	2795.1	2835.9	2876.8	2954.4	2987.1	3085.2	3236.4	3363.1
15°	2746.0	2750.1	2754.2	2782.8	2827.8	2917.6	3032.1	3081.1	3199.6	3379.4	3526.5
17.5°	2811.4	2815.5	2799.1	2807.3	2860.4	2987.1	3138.3	3195.5	3346.7	3542.9	3694.1
20°	3011.6	3011.6	2962.6	2917.6	2954.4	3093.4	3265.0	3322.2	3489.7	3706.3	3857.5
22.5°	3420.3	3440.7	3326.3	3228.2	3171.0	3248.6	3403.9	3465.2	3653.2	3886.1	4037.3
25°	3914.7	3935.1	3779.9	3640.9	3534.7	3522.4	3624.6	3690.0	3845.2	4086.3	4213.0
27.5°	4392.8	4356.0	4213.0	4082.3	3947.4	3837.1	3914.7	3971.9	4151.7	4335.6	4413.3
30°	4768.8	4740.2	4601.2	4507.2	4380.6	4237.5	4192.6	4253.9	4401.0	4572.6	4613.5
32.5°	5185.6	5165.1	5026.2	4903.6	4797.4	4662.5	4564.4	4593.1	4674.8	4797.4	4821.9
35°	5716.8	5761.7	5614.6	5365.4	5246.9	5116.1	5046.6	5054.8	5116.1	5193.7	5152.9
37.5°	6276.6	6329.7	6337.9	5945.6	5786.3	5667.8	5594.2	5622.8	5696.4	5749.5	5622.8
40°	7314.6	7261.4	7048.9	6758.8	6513.6	6399.2	6297.1	6293.0	6346.1	6440.1	6211.2
42.5°	8691.7	8642.6	8213.6	7837.6	7449.4	7318.6	7118.4	7032.6	7057.1	7175.6	6856.9
45°	10011.5	9991.1	9647.9	9210.6	8744.8	8491.4	8033.8	7825.3	7804.9	7898.9	7518.9
47.5°	11184.3	11094.4	10845.2	10506.0	10457.0	9795.0	8953.2	8671.2	8573.1	8626.3	8201.3
50°	12438.8	12132.4	11789.1	11580.7	11936.2	11319.2	9880.8	9586.6	9345.5	9382.2	8940.9
52.5°	13104.9	12590.0	12365.3	12426.6	12904.7	12667.7	10890.1	10530.5	10142.3	10195.4	9676.5
55°	12532.8	12528.7	12626.8	13006.8	13672.9	13399.1	11850.4	11445.8	11020.9	11033.1	10522.3
57.5°	11748.2	11907.6	12414.3	13252.0	14625.0	14167.4	12794.3	12365.3	11977.1	11915.8	11482.6
60°	11033.1	11208.8	11944.4	13211.2	14956.0	14870.2	13693.3	13317.4	13002.7	12822.9	12492.0
62.5°	9946.2	10076.9	11118.9	12949.6	14678.1	15376.9	14604.6	14347.2	14110.1	13738.3	13578.9
65°	8667.1	8712.1	9811.3	12087.4	14330.8	15573.1	15511.8	15397.3	15168.5	14620.9	14653.6
67.5°	7281.9	7371.8	8336.1	10710.3	13570.7	15483.2	16214.6	16308.6	16038.9	15217.5	15340.1
70°	5806.7	5917.0	6648.5	8806.1	12279.5	15095.0	16864.3	17015.5	16496.6	15413.7	15466.8
72.5°	3591.9	3698.1	4188.5	6117.3	9733.7	13791.4	17064.6	17260.7	16508.8	15152.2	14641.4
75°	1242.2	1254.5	1638.6	2934.0	5778.1	10412.0	16410.8	16872.5	15989.9	14200.0	12741.2
77.5°	568.0	588.4	727.4	1209.6	2562.1	5618.7	13550.3	14706.8	14412.5	12712.6	9807.2
80°	392.3	400.5	502.6	723.3	1479.3	1977.8	8552.7	10060.6	10575.5	9844.0	6284.8
82.5°	294.2	302.4	388.2	490.4	1066.5	960.3	3256.8	4674.8	5810.8	5704.5	2627.5
85°	282.0	277.9	302.4	326.9	711.0	572.1	1054.3	1446.6	2267.9	1941.0	662.0
87.5°	122.6	134.8	310.6	183.9	371.9	265.6	457.7	535.3	690.6	600.7	237.0
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°	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0
2.5°	3240.5	3248.6	3273.2	3309.9	3330.4	3371.2	3399.8	3416.2	3428.4	3432.5	3432.5
5°	3211.9	3228.2	3281.3	3342.6	3399.8	3485.7	3563.3	3608.2	3640.9	3653.2	3657.3
7.5°	3220.0	3260.9	3338.5	3428.4	3502.0	3612.3	3706.3	3796.2	3869.8	3898.4	3898.4
10°	3297.7	3354.9	3461.1	3579.6	3673.6	3788.0	3886.1	3963.8	4049.6	4098.6	4106.8
12.5°	3416.2	3485.7	3624.6	3755.4	3861.6	3951.5	4041.4	4098.6	4139.5	4176.2	4184.4
15°	3583.7	3669.5	3808.5	3943.3	4037.3	4094.5	4119.0	4119.0	4114.9	4119.0	4127.2
17.5°	3751.3	3833.0	3971.9	4106.8	4151.7	4119.0	4090.4	4082.3	4078.2	4070.0	4074.1
20°	3914.7	3992.4	4110.9	4213.0	4176.2	4061.8	4025.0	4021.0	4008.7	4000.5	3992.4
22.5°	4078.2	4135.4	4233.5	4270.2	4123.1	3959.7	3914.7	3890.2	3873.9	3853.4	3833.0
25°	4266.1	4282.5	4356.0	4298.8	3992.4	3771.7	3706.3	3669.5	3653.2	3632.8	3616.4
27.5°	4441.9	4441.9	4454.1	4253.9	3800.3	3522.4	3424.4	3359.0	3354.9	3350.8	3346.7
30°	4601.2	4580.8	4539.9	4119.0	3551.0	3216.0	3068.8	3003.5	3028.0	3048.4	3052.5
32.5°	4789.2	4748.3	4633.9	3935.1	3252.7	2872.7	2692.9	2664.3	2692.9	2717.4	2701.1
35°	5083.4	5009.9	4732.0	3722.7	2966.7	2558.1	2386.4	2345.6	2337.4	2333.3	2300.6
37.5°	5504.3	5377.6	4809.6	3493.8	2684.7	2280.2	2153.5	2067.7	1990.0	1908.3	1896.1
40°	6019.2	5802.6	4862.7	3232.3	2386.4	2047.3	1912.4	1802.1	1671.3	1528.3	1511.9
42.5°	6583.1	6260.3	4887.3	2942.2	2124.9	1855.2	1687.7	1548.7	1401.6	1291.3	1270.9
45°	7192.0	6754.7	4866.8	2664.3	1912.4	1691.7	1503.8	1352.6	1234.1	1156.4	1140.1
47.5°	7784.5	7322.7	4809.6	2443.6	1749.0	1552.8	1360.8	1221.8	1131.9	1046.1	1025.7
50°	8544.5	7866.2	4740.2	2272.0	1569.2	1413.9	1270.9	1123.7	1021.6	980.7	972.5
52.5°	9386.3	8409.7	4658.4	2055.4	1393.4	1303.5	1213.6	1082.9	1050.2	972.5	960.3
55°	10297.6	9055.3	4642.1	1781.6	1238.2	1225.9	1156.4	1119.7	1127.8	972.5	952.1
57.5°	11257.9	9745.9	4678.9	1507.9	1111.5	1156.4	1181.0	1152.3	1140.1	993.0	952.1
60°	12259.0	10412.0	4568.5	1254.5	1013.4	1099.2	1209.6	1136.0	1046.1	984.8	956.2
62.5°	13231.6	10971.8	4090.4	1074.7	939.9	1082.9	1193.2	1074.7	972.5	972.5	960.3
65°	13938.5	11221.1	3199.6	943.9	890.8	1062.4	1164.6	1033.8	952.1	980.7	964.4
67.5°	14020.2	10963.7	2149.4	841.8	850.0	1025.7	1099.2	997.1	931.7	1005.2	980.7
70°	13517.6	10293.5	1315.8	764.1	796.8	960.3	1042.0	960.3	903.1	984.8	948.0
72.5°	12214.1	9043.1	927.6	698.8	739.6	899.0	988.9	927.6	862.2	890.8	854.0
75°	10019.7	7008.1	735.5	637.5	682.4	841.8	943.9	878.6	813.2	800.9	776.4
77.5°	7098.0	4490.9	592.5	588.4	621.1	772.3	882.7	821.4	756.0	731.5	715.1
80°	4082.3	2202.5	510.8	531.2	563.9	702.9	809.1	756.0	694.7	657.9	633.4
82.5°	1561.0	768.2	449.5	461.8	498.5	629.3	735.5	690.6	629.3	662.0	555.7
85°	506.7	420.9	367.8	380.0	416.8	523.1	649.7	613.0	543.5	482.2	445.4
87.5°	224.7	228.8	196.1	216.6	261.5	347.3	474.0	449.5	396.4	331.0	318.7
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)