

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: P400079

Luminaire Tested: **ARCH-L-PA3-230-740-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400079
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-PA3-230-740-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31731 lumens
Efficiency: N/A
Efficacy: 138.6 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

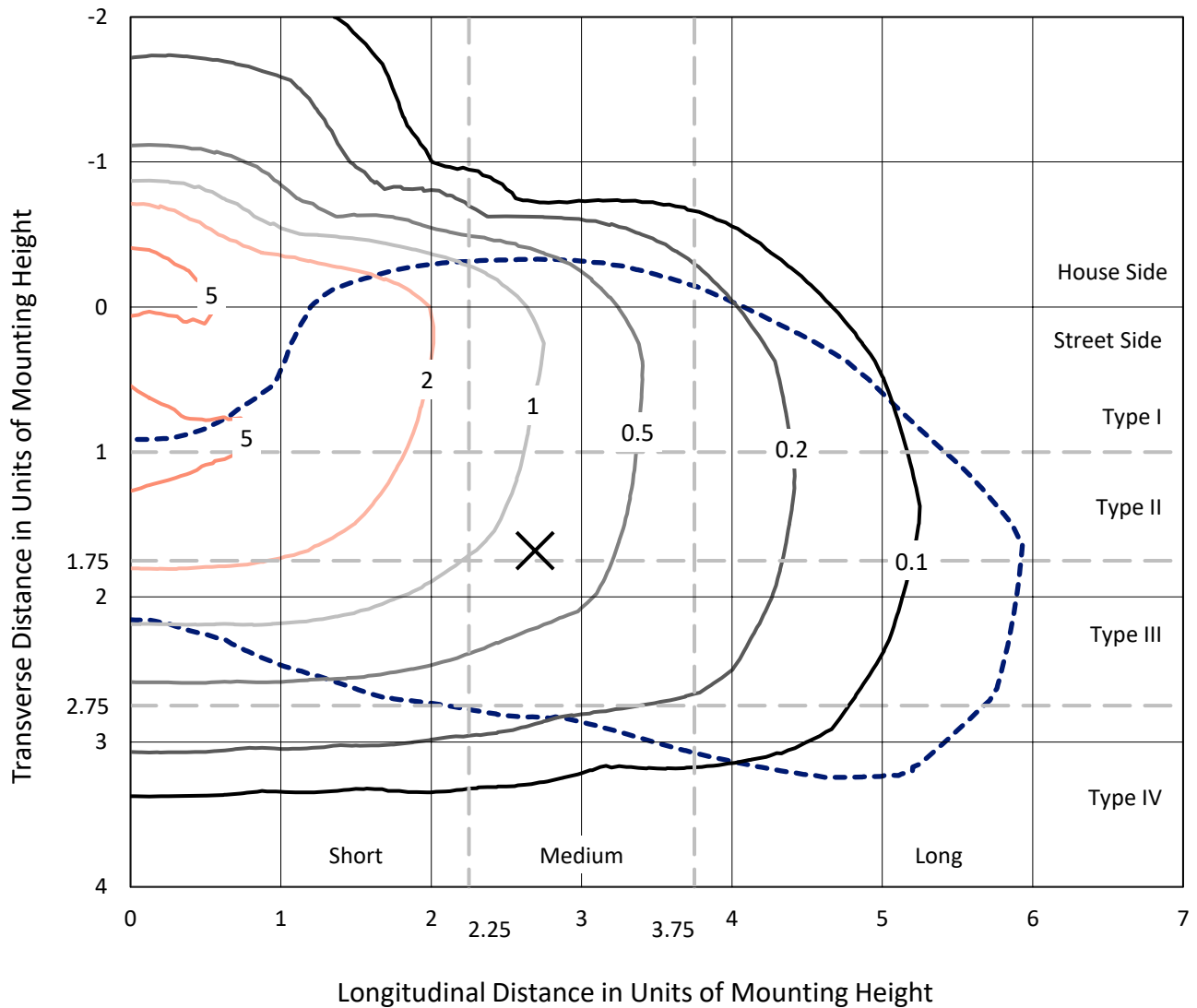
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

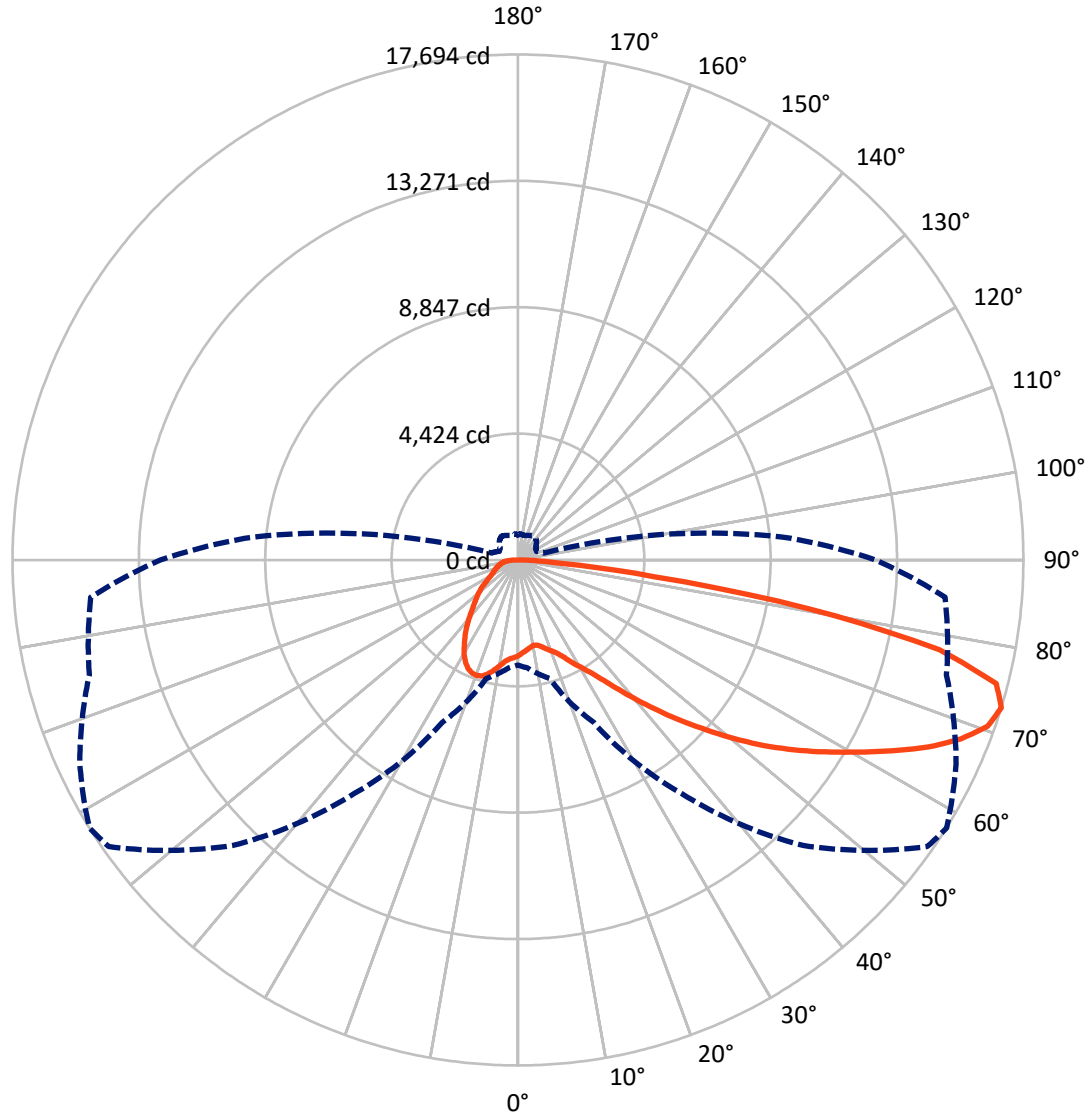
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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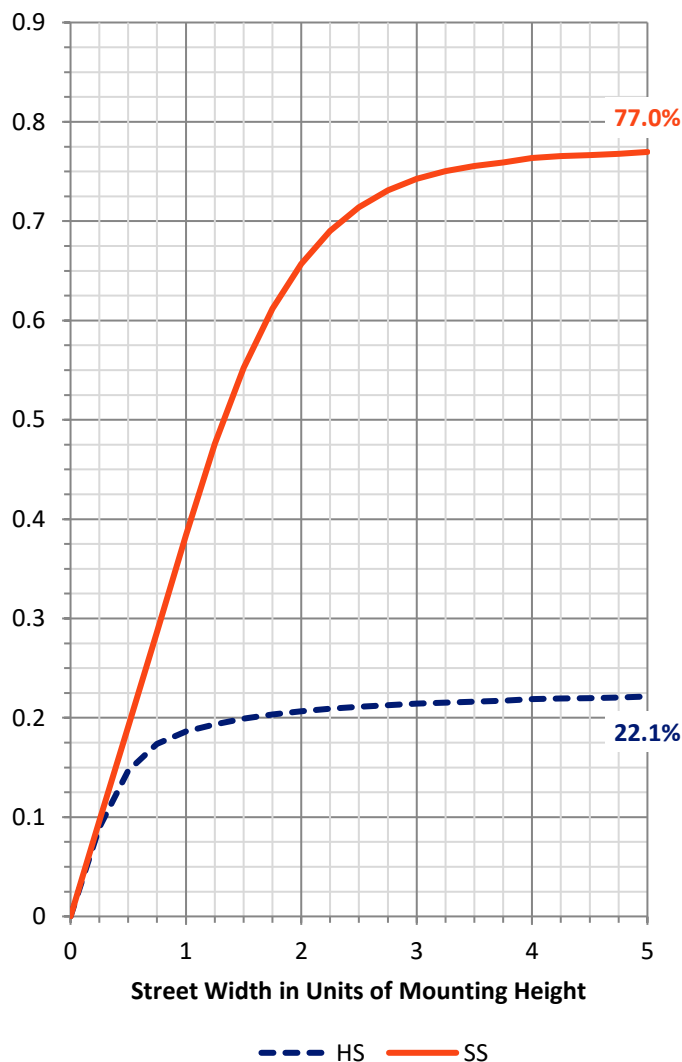
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7196.2	0.0	7196.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	24534.8	0.0	24534.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	31731.0	0.0	31731.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.4	1.0
10°-20°	1023.9	3.2
20°-30°	1834.2	5.8
30°-40°	2759.1	8.7
40°-50°	4468.0	14.1
50°-60°	6725.7	21.2
60°-70°	7915.5	24.9
70°-80°	5612.8	17.7
80°-90°	1069.5	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°	31731.0	100.0
0°-180°	31731.0	100.0



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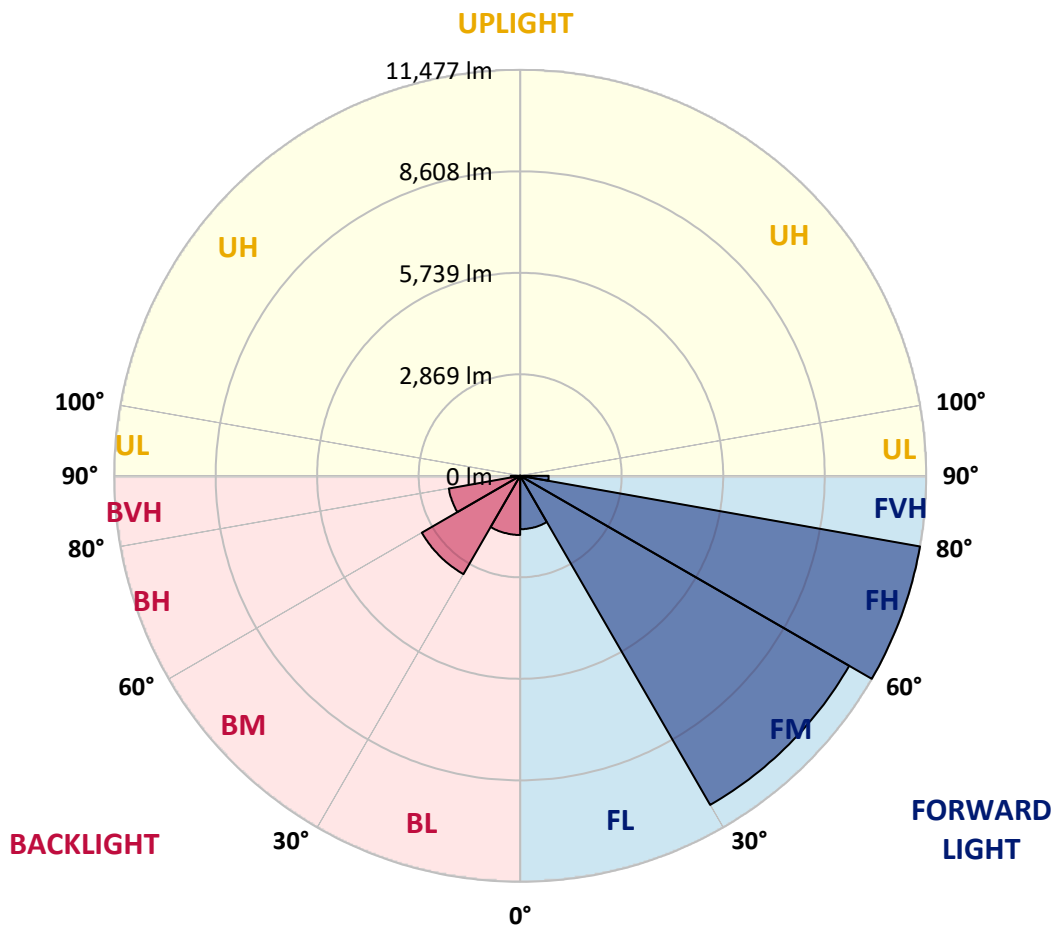
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1508.9	4.8			
FM (30°-60°)	10741.9	33.9			
FH (60°-80°)	11477.2	36.2			G4/12000
FVH (80°-90°)	806.7	2.5			G5
BL (0°-30°)	1671.6	5.3	B3/2500		
BM (30°-60°)	3210.9	10.1	B3/5000		
BH (60°-80°)	2051.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	262.8	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°	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9
2.5°	3221.3	3204.5	3208.7	3208.7	3225.5	3233.8	3238.0	3250.6	3259.0	3279.9	3309.2
5°	3070.5	3057.9	3062.1	3066.3	3095.6	3124.9	3150.1	3166.8	3192.0	3225.5	3267.4
7.5°	2961.6	2953.2	2957.4	2965.8	2990.9	3024.4	3066.3	3091.4	3129.1	3192.0	3263.2
10°	2882.0	2882.0	2886.2	2902.9	2928.1	2969.9	3003.5	3032.8	3108.2	3221.3	3330.2
12.5°	2819.1	2819.1	2831.7	2865.2	2907.1	2949.0	3028.6	3062.1	3162.6	3317.6	3447.5
15°	2815.0	2819.1	2823.3	2852.7	2898.7	2990.9	3108.2	3158.4	3279.9	3464.2	3615.0
17.5°	2882.0	2886.2	2869.4	2877.8	2932.2	3062.1	3217.1	3275.7	3430.7	3631.8	3786.8
20°	3087.2	3087.2	3037.0	2990.9	3028.6	3171.0	3346.9	3405.6	3577.3	3799.3	3954.3
22.5°	3506.1	3527.1	3409.8	3309.2	3250.6	3330.2	3489.4	3552.2	3744.9	3983.7	4138.7
25°	4013.0	4033.9	3874.7	3732.3	3623.4	3610.8	3715.6	3782.6	3941.8	4188.9	4318.8
27.5°	4503.1	4465.4	4318.8	4184.7	4046.5	3933.4	4013.0	4071.6	4255.9	4444.4	4524.0
30°	4888.5	4859.1	4716.7	4620.4	4490.5	4343.9	4297.8	4360.7	4511.5	4687.4	4729.3
32.5°	5315.7	5294.8	5152.4	5026.7	4917.8	4779.6	4679.0	4708.3	4792.1	4917.8	4942.9
35°	5860.3	5906.4	5755.6	5500.1	5378.6	5244.5	5173.3	5181.7	5244.5	5324.1	5282.2
37.5°	6434.2	6488.6	6497.0	6094.9	5931.5	5810.0	5734.6	5764.0	5839.4	5893.8	5764.0
40°	7498.2	7443.7	7225.9	6928.5	6677.1	6559.8	6455.1	6450.9	6505.4	6601.7	6367.2
42.5°	8909.8	8859.6	8419.7	8034.3	7636.4	7502.4	7297.1	7209.1	7234.3	7355.7	7029.0
45°	10262.9	10241.9	9890.0	9441.8	8964.3	8704.6	8235.4	8021.8	8000.8	8097.2	7707.6
47.5°	11465.1	11372.9	11117.4	10769.7	10719.4	10040.8	9177.9	8888.9	8788.4	8842.8	8407.2
50°	12751.1	12436.9	12085.0	11871.4	12235.8	11603.3	10128.8	9827.2	9580.1	9617.8	9165.4
52.5°	13433.9	12906.1	12675.7	12738.5	13228.6	12985.6	11163.5	10794.8	10396.9	10451.4	9919.4
55°	12847.4	12843.2	12943.8	13333.3	14016.1	13735.5	12147.9	11733.2	11297.5	11310.1	10786.5
57.5°	12043.1	12206.5	12725.9	13584.7	14992.1	14523.0	13115.5	12675.7	12277.7	12214.9	11770.9
60°	11310.1	11490.2	12244.2	13542.8	15331.4	15243.5	14037.1	13651.7	13329.1	13144.8	12805.5
62.5°	10195.8	10329.9	11398.0	13274.7	15046.6	15762.9	14971.2	14707.3	14464.3	14083.1	13919.8
65°	8884.7	8930.8	10057.6	12390.8	14690.5	15964.0	15901.1	15783.8	15549.3	14988.0	15021.5
67.5°	7464.7	7556.8	8545.4	10979.2	13911.4	15871.8	16621.6	16718.0	16441.5	15599.5	15725.2
70°	5952.5	6065.6	6815.4	9027.1	12587.7	15473.9	17287.7	17442.7	16910.7	15800.6	15855.1
72.5°	3682.1	3791.0	4293.6	6270.8	9978.0	14137.6	17492.9	17694.0	16923.2	15532.5	15008.9
75°	1273.4	1286.0	1679.8	3007.6	5923.1	10673.4	16822.7	17296.0	16391.2	14556.5	13061.0
77.5°	582.3	603.2	745.6	1239.9	2626.5	5759.8	13890.5	15075.9	14774.3	13031.7	10053.4
80°	402.1	410.5	515.2	741.4	1516.4	2027.4	8767.4	10313.1	10840.9	10091.1	6442.6
82.5°	301.6	310.0	397.9	502.7	1093.3	984.4	3338.6	4792.1	5956.6	5847.7	2693.5
85°	289.0	284.8	310.0	335.1	728.9	586.4	1080.7	1482.9	2324.8	1989.7	678.6
87.5°	125.7	138.2	318.4	188.5	381.2	272.3	469.2	548.7	707.9	615.8	243.0
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°	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9
2.5°	3321.8	3330.2	3355.3	3393.0	3414.0	3455.9	3485.2	3501.9	3514.5	3518.7	3518.7
5°	3292.5	3309.2	3363.7	3426.5	3485.2	3573.1	3652.7	3698.8	3732.3	3744.9	3749.1
7.5°	3300.9	3342.8	3422.3	3514.5	3589.9	3703.0	3799.3	3891.5	3966.9	3996.2	3996.2
10°	3380.5	3439.1	3548.0	3669.5	3765.8	3883.1	3983.7	4063.3	4151.2	4201.5	4209.9
12.5°	3501.9	3573.1	3715.6	3849.6	3958.5	4050.7	4142.8	4201.5	4243.4	4281.1	4289.5
15°	3673.7	3761.6	3904.1	4042.3	4138.7	4197.3	4222.4	4222.4	4218.2	4222.4	4230.8
17.5°	3845.4	3929.2	4071.6	4209.9	4255.9	4222.4	4193.1	4184.7	4180.5	4172.2	4176.4
20°	4013.0	4092.6	4214.1	4318.8	4281.1	4163.8	4126.1	4121.9	4109.3	4101.0	4092.6
22.5°	4180.5	4239.2	4339.7	4377.4	4226.6	4059.1	4013.0	3987.9	3971.1	3950.2	3929.2
25°	4373.2	4390.0	4465.4	4406.7	4092.6	3866.4	3799.3	3761.6	3744.9	3723.9	3707.2
27.5°	4553.4	4553.4	4565.9	4360.7	3895.7	3610.8	3510.3	3443.3	3439.1	3434.9	3430.7
30°	4716.7	4695.8	4653.9	4222.4	3640.2	3296.7	3145.9	3078.9	3104.0	3124.9	3129.1
32.5°	4909.4	4867.5	4750.2	4033.9	3334.4	2944.8	2760.5	2731.2	2760.5	2785.6	2768.9
35°	5211.0	5135.6	4850.8	3816.1	3041.2	2622.3	2446.3	2404.4	2396.1	2391.9	2358.4
37.5°	5642.5	5512.6	4930.4	3581.5	2752.1	2337.4	2207.6	2119.6	2040.0	1956.2	1943.7
40°	6170.3	5948.3	4984.8	3313.4	2446.3	2098.6	1960.4	1847.3	1713.3	1566.7	1549.9
42.5°	6748.3	6417.4	5009.9	3016.0	2178.2	1901.8	1730.0	1587.6	1436.8	1323.7	1302.8
45°	7372.5	6924.3	4989.0	2731.2	1960.4	1734.2	1541.5	1386.5	1265.1	1185.5	1168.7
47.5°	7979.9	7506.5	4930.4	2505.0	1792.9	1591.8	1394.9	1252.5	1160.3	1072.4	1051.4
50°	8759.0	8063.7	4859.1	2329.0	1608.5	1449.4	1302.8	1152.0	1047.2	1005.3	997.0
52.5°	9621.9	8620.8	4775.4	2107.0	1428.4	1336.3	1244.1	1110.1	1076.6	997.0	984.4
55°	10556.1	9282.6	4758.6	1826.4	1269.2	1256.7	1185.5	1147.8	1156.1	997.0	976.0
57.5°	11540.5	9990.6	4796.3	1545.7	1139.4	1185.5	1210.6	1181.3	1168.7	1017.9	976.0
60°	12566.8	10673.4	4683.2	1286.0	1038.9	1126.8	1239.9	1164.5	1072.4	1009.5	980.2
62.5°	13563.7	11247.2	4193.1	1101.7	963.5	1110.1	1223.2	1101.7	997.0	997.0	984.4
65°	14288.4	11502.8	3279.9	967.6	913.2	1089.1	1193.8	1059.8	976.0	1005.3	988.6
67.5°	14372.2	11238.9	2203.4	862.9	871.3	1051.4	1126.8	1022.1	955.1	1030.5	1005.3
70°	13856.9	10551.9	1348.8	783.3	816.8	984.4	1068.2	984.4	925.8	1009.5	971.8
72.5°	12520.7	9270.1	950.9	716.3	758.2	921.6	1013.7	950.9	883.9	913.2	875.5
75°	10271.2	7184.0	754.0	653.5	699.5	862.9	967.6	900.6	833.6	821.0	795.9
77.5°	7276.2	4603.6	607.4	603.2	636.7	791.7	904.8	842.0	774.9	749.8	733.1
80°	4184.7	2257.8	523.6	544.6	578.1	720.5	829.4	774.9	712.1	674.4	649.3
82.5°	1600.2	787.5	460.8	473.3	511.0	645.1	754.0	707.9	645.1	678.6	569.7
85°	519.4	431.5	377.0	389.6	427.3	536.2	666.0	628.3	557.1	494.3	456.6
87.5°	230.4	234.6	201.1	222.0	268.1	356.1	485.9	460.8	406.3	339.3	326.7
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)