

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: P400286

Luminaire Tested: **ARCH-L-PA3-260-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400286
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-PA3-260-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31283 lumens
Efficiency: N/A
Efficacy: 119.9 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

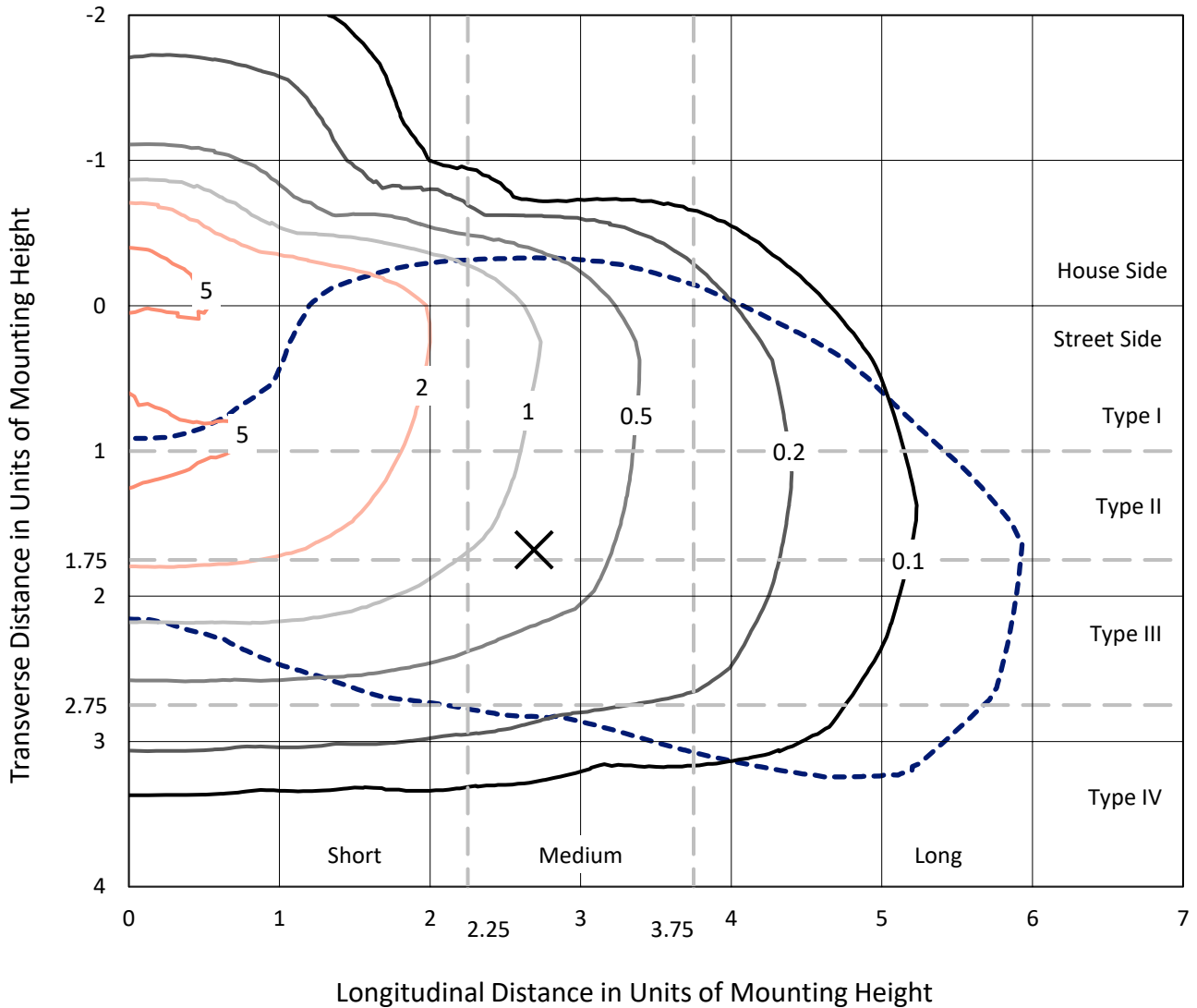
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

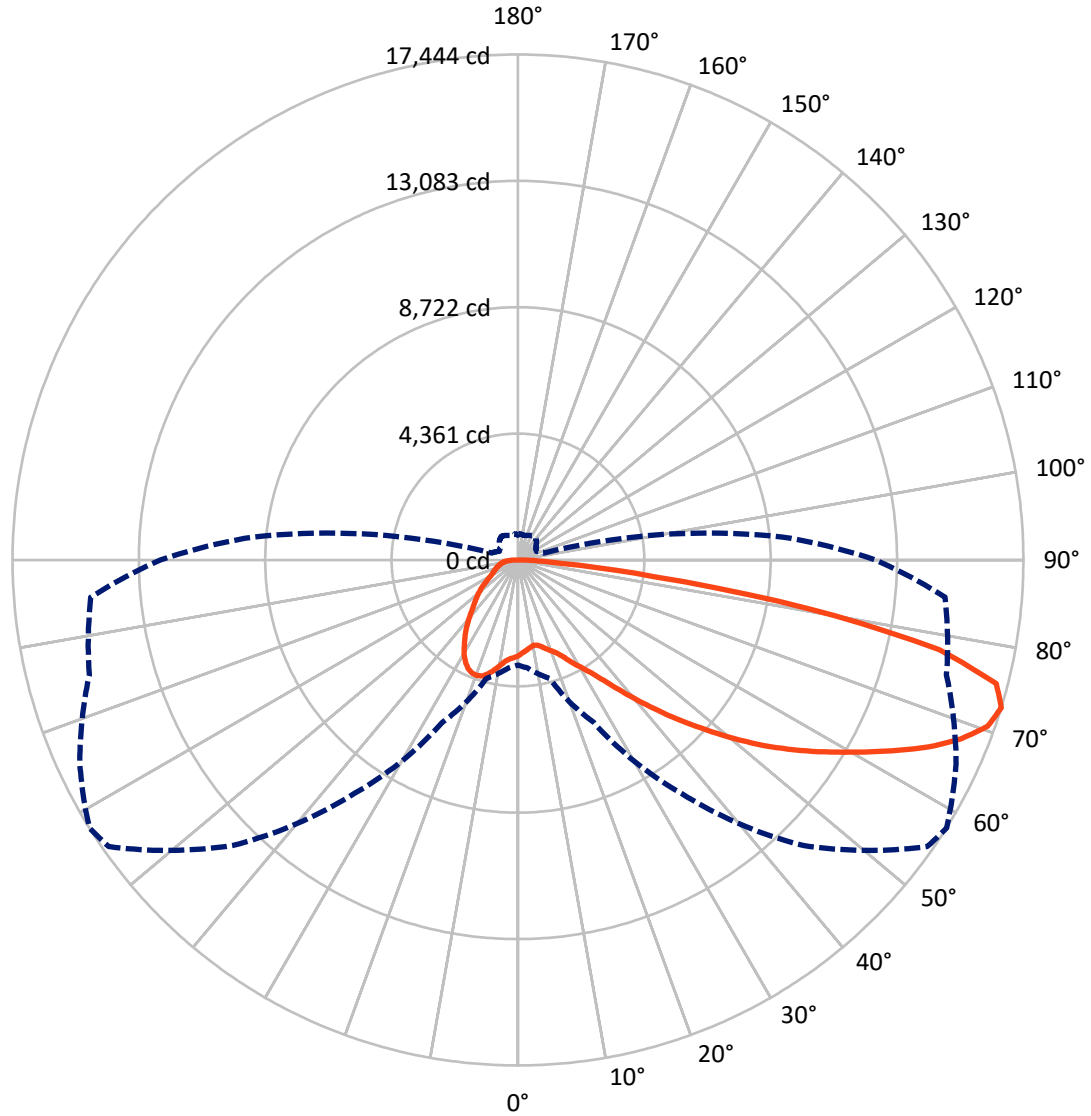
✕ Max cd
 - - - 1/2 Max cd



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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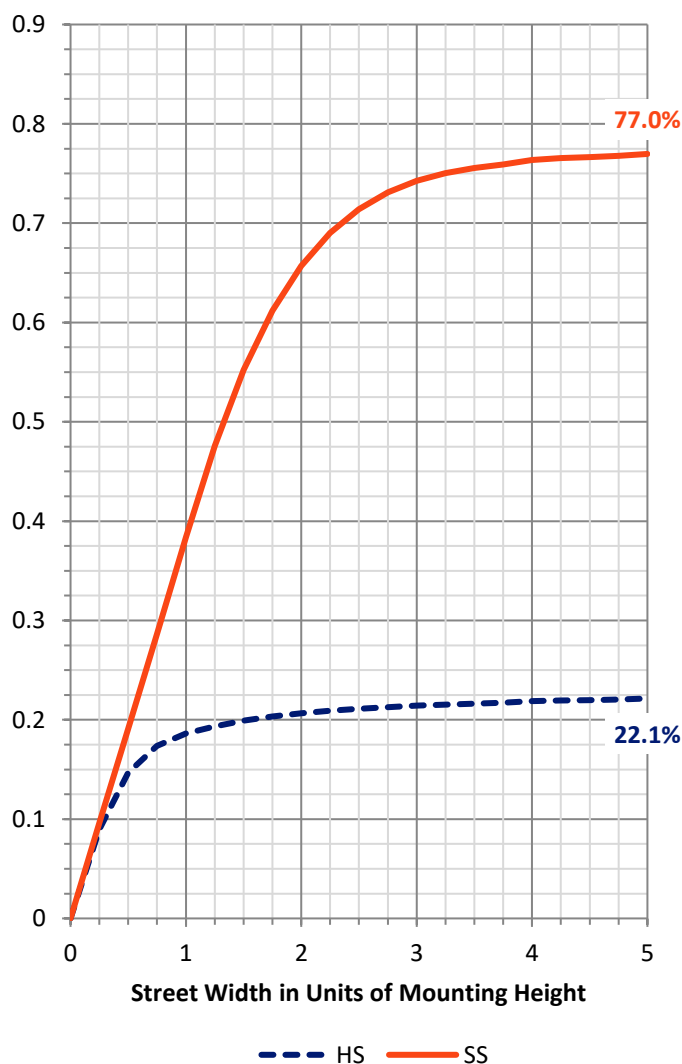
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7094.6	0.0	7094.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	24188.4	0.0	24188.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	31283.0	0.0	31283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.9	1.0
10°-20°	1009.5	3.2
20°-30°	1808.3	5.8
30°-40°	2720.1	8.7
40°-50°	4404.9	14.1
50°-60°	6630.8	21.2
60°-70°	7803.7	24.9
70°-80°	5533.5	17.7
80°-90°	1054.4	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°	31283.0	100.0
0°-180°	31283.0	100.0

Coefficient of Utilization



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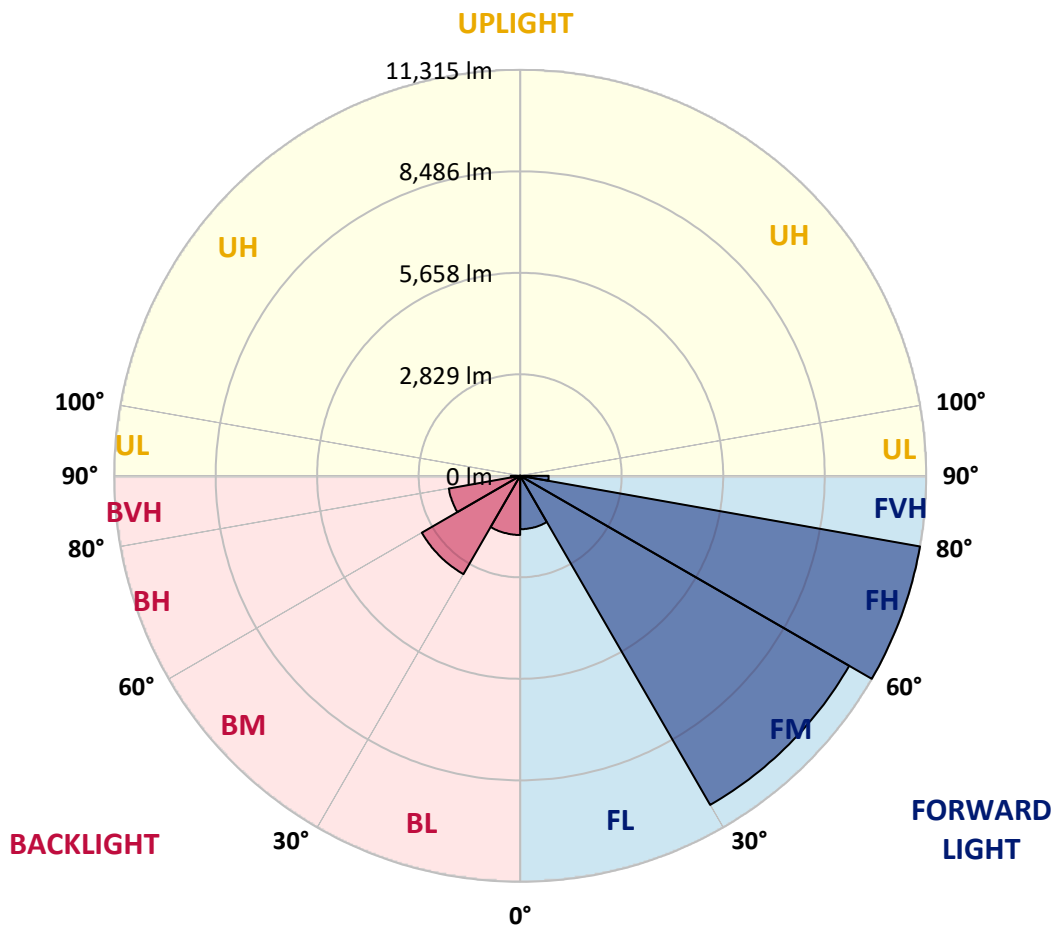
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.6	4.8			
FM (30°-60°)	10590.2	33.9			
FH (60°-80°)	11315.2	36.2			G4/12000
FVH (80°-90°)	795.3	2.5			G5
BL (0°-30°)	1648.0	5.3	B3/2500		
BM (30°-60°)	3165.6	10.1	B3/5000		
BH (60°-80°)	2022.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	259.1	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°	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7
2.5°	3175.8	3159.3	3163.4	3163.4	3179.9	3188.2	3192.3	3204.7	3213.0	3233.6	3262.5
5°	3027.1	3014.7	3018.9	3023.0	3051.9	3080.8	3105.6	3122.1	3146.9	3179.9	3221.2
7.5°	2919.8	2911.5	2915.6	2923.9	2948.7	2981.7	3023.0	3047.8	3084.9	3146.9	3217.1
10°	2841.3	2841.3	2845.4	2861.9	2886.7	2928.0	2961.0	2990.0	3064.3	3175.8	3283.2
12.5°	2779.3	2779.3	2791.7	2824.8	2866.1	2907.4	2985.8	3018.9	3118.0	3270.8	3398.8
15°	2775.2	2779.3	2783.5	2812.4	2857.8	2948.7	3064.3	3113.9	3233.6	3415.3	3564.0
17.5°	2841.3	2845.4	2828.9	2837.2	2890.8	3018.9	3171.7	3229.5	3382.3	3580.5	3733.3
20°	3043.6	3043.6	2994.1	2948.7	2985.8	3126.2	3299.7	3357.5	3526.8	3745.7	3898.5
22.5°	3456.6	3477.3	3361.6	3262.5	3204.7	3283.2	3440.1	3502.1	3692.0	3927.4	4080.2
25°	3956.3	3977.0	3820.0	3679.6	3572.3	3559.9	3663.1	3729.2	3886.1	4129.8	4257.8
27.5°	4439.5	4402.3	4257.8	4125.6	3989.4	3877.9	3956.3	4014.1	4195.9	4381.7	4460.2
30°	4819.4	4790.5	4650.1	4555.1	4427.1	4282.6	4237.2	4299.1	4447.8	4621.2	4662.5
32.5°	5240.7	5220.0	5079.6	4955.7	4848.4	4712.1	4613.0	4641.9	4724.5	4848.4	4873.1
35°	5777.6	5823.0	5674.3	5422.4	5302.6	5170.5	5100.3	5108.5	5170.5	5248.9	5207.6
37.5°	6343.3	6397.0	6405.3	6008.8	5847.8	5728.0	5653.7	5682.6	5756.9	5810.6	5682.6
40°	7392.3	7338.6	7123.9	6830.7	6582.9	6467.2	6364.0	6359.9	6413.5	6508.5	6277.3
42.5°	8784.0	8734.5	8300.9	7920.9	7528.6	7396.4	7194.1	7107.3	7132.1	7251.9	6929.8
45°	10118.0	10097.3	9750.4	9308.5	8837.7	8581.7	8119.1	7908.5	7887.9	7982.9	7598.8
47.5°	11303.2	11212.3	10960.4	10617.7	10568.1	9899.1	9048.3	8763.4	8664.3	8718.0	8288.5
50°	12571.0	12261.3	11914.4	11703.8	12063.1	11439.5	9985.8	9688.5	9444.8	9482.0	9036.0
52.5°	13244.2	12723.8	12496.7	12558.7	13041.8	12802.3	11005.9	10642.4	10250.1	10303.8	9779.3
55°	12666.0	12661.9	12761.0	13145.1	13818.2	13541.5	11976.4	11567.5	11138.0	11150.4	10634.2
57.5°	11873.1	12034.2	12546.3	13392.9	14780.5	14317.9	12930.3	12496.7	12104.4	12042.4	11604.7
60°	11150.4	11328.0	12071.3	13351.6	15115.0	15028.3	13838.9	13458.9	13140.9	12959.2	12624.7
62.5°	10051.9	10184.0	11237.1	13087.3	14834.2	15540.3	14759.8	14499.6	14260.1	13884.3	13723.2
65°	8759.3	8804.7	9915.6	12215.9	14483.1	15738.6	15676.6	15561.0	15329.7	14776.3	14809.4
67.5°	7359.3	7450.1	8424.7	10824.1	13715.0	15647.7	16387.0	16481.9	16209.4	15379.3	15503.2
70°	5868.4	5979.9	6719.1	8899.7	12410.0	15255.4	17043.6	17196.4	16671.9	15577.5	15631.2
72.5°	3630.1	3737.4	4233.0	6182.3	9837.1	13938.0	17245.9	17444.2	16684.3	15313.2	14797.0
75°	1255.5	1267.8	1656.0	2965.2	5839.5	10522.7	16585.2	17051.8	16159.8	14351.0	12876.6
77.5°	574.0	594.7	735.1	1222.4	2589.4	5678.4	13694.3	14863.1	14565.7	12847.7	9911.5
80°	396.5	404.7	508.0	731.0	1495.0	1998.8	8643.6	10167.5	10687.9	9948.6	6351.6
82.5°	297.3	305.6	392.3	495.6	1077.9	970.5	3291.4	4724.5	5872.5	5765.2	2655.4
85°	285.0	280.8	305.6	330.4	718.6	578.2	1065.5	1461.9	2292.0	1961.6	669.0
87.5°	123.9	136.3	313.9	185.8	375.8	268.4	462.5	541.0	697.9	607.1	239.5
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°	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7
2.5°	3274.9	3283.2	3308.0	3345.1	3365.8	3407.1	3436.0	3452.5	3464.9	3469.0	3469.0
5°	3246.0	3262.5	3316.2	3378.2	3436.0	3522.7	3601.2	3646.6	3679.6	3692.0	3696.2
7.5°	3254.3	3295.6	3374.0	3464.9	3539.2	3650.7	3745.7	3836.6	3910.9	3939.8	3939.8
10°	3332.7	3390.5	3497.9	3617.7	3712.7	3828.3	3927.4	4005.9	4092.6	4142.2	4150.4
12.5°	3452.5	3522.7	3663.1	3795.3	3902.6	3993.5	4084.3	4142.2	4183.5	4220.6	4228.9
15°	3621.8	3708.5	3849.0	3985.2	4080.2	4138.0	4162.8	4162.8	4158.7	4162.8	4171.1
17.5°	3791.1	3873.7	4014.1	4150.4	4195.9	4162.8	4133.9	4125.6	4121.5	4113.3	4117.4
20°	3956.3	4034.8	4154.6	4257.8	4220.6	4105.0	4067.8	4063.7	4051.3	4043.1	4034.8
22.5°	4121.5	4179.3	4278.4	4315.6	4166.9	4001.8	3956.3	3931.5	3915.0	3894.4	3873.7
25°	4311.5	4328.0	4402.3	4344.5	4034.8	3811.8	3745.7	3708.5	3692.0	3671.4	3654.9
27.5°	4489.1	4489.1	4501.5	4299.1	3840.7	3559.9	3460.8	3394.7	3390.5	3386.4	3382.3
30°	4650.1	4629.5	4588.2	4162.8	3588.8	3250.1	3101.5	3035.4	3060.2	3080.8	3084.9
32.5°	4840.1	4798.8	4683.2	3977.0	3287.3	2903.2	2721.5	2692.6	2721.5	2746.3	2729.8
35°	5137.4	5063.1	4782.3	3762.2	2998.2	2585.2	2411.8	2370.5	2362.2	2358.1	2325.1
37.5°	5562.8	5434.8	4860.7	3531.0	2713.3	2304.4	2176.4	2089.7	2011.2	1928.6	1916.2
40°	6083.2	5864.3	4914.4	3266.7	2411.8	2069.0	1932.7	1821.2	1689.1	1544.5	1528.0
42.5°	6653.1	6326.8	4939.2	2973.4	2147.5	1874.9	1705.6	1565.2	1416.5	1305.0	1284.4
45°	7268.4	6826.5	4918.6	2692.6	1932.7	1709.7	1519.8	1367.0	1247.2	1168.7	1152.2
47.5°	7867.2	7400.6	4860.7	2469.6	1767.5	1569.3	1375.2	1234.8	1143.9	1057.2	1036.6
50°	8635.4	7949.8	4790.5	2296.2	1585.8	1428.9	1284.4	1135.7	1032.4	991.1	982.9
52.5°	9486.1	8499.1	4707.9	2077.3	1408.3	1317.4	1226.5	1094.4	1061.4	982.9	970.5
55°	10407.0	9151.6	4691.4	1800.6	1251.3	1238.9	1168.7	1131.6	1139.8	982.9	962.2
57.5°	11377.5	9849.5	4728.6	1523.9	1123.3	1168.7	1193.5	1164.6	1152.2	1003.5	962.2
60°	12389.3	10522.7	4617.1	1267.8	1024.2	1110.9	1222.4	1148.1	1057.2	995.3	966.4
62.5°	13372.2	11088.5	4133.9	1086.1	949.8	1094.4	1205.9	1086.1	982.9	982.9	970.5
65°	14086.7	11340.4	3233.6	954.0	900.3	1073.7	1177.0	1044.8	962.2	991.1	974.6
67.5°	14169.3	11080.2	2172.3	850.7	859.0	1036.6	1110.9	1007.7	941.6	1015.9	991.1
70°	13661.3	10402.9	1329.8	772.3	805.3	970.5	1053.1	970.5	912.7	995.3	958.1
72.5°	12343.9	9139.2	937.5	706.2	747.5	908.6	999.4	937.5	871.4	900.3	863.1
75°	10126.2	7082.6	743.4	644.2	689.7	850.7	954.0	887.9	821.8	809.4	784.7
77.5°	7173.4	4538.6	598.8	594.7	627.7	780.5	892.0	830.1	764.0	739.2	722.7
80°	4125.6	2225.9	516.2	536.9	569.9	710.3	817.7	764.0	702.1	664.9	640.1
82.5°	1577.6	776.4	454.3	466.7	503.8	636.0	743.4	697.9	636.0	669.0	561.6
85°	512.1	425.4	371.7	384.1	421.2	528.6	656.6	619.5	549.3	487.3	450.1
87.5°	227.1	231.3	198.2	218.9	264.3	351.0	479.1	454.3	400.6	334.5	322.1
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)