

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: P400477

Luminaire Tested: **ARCH-L-PA3-280-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-280-830-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28345 lumens
Efficiency: N/A
Efficacy: 101.6 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

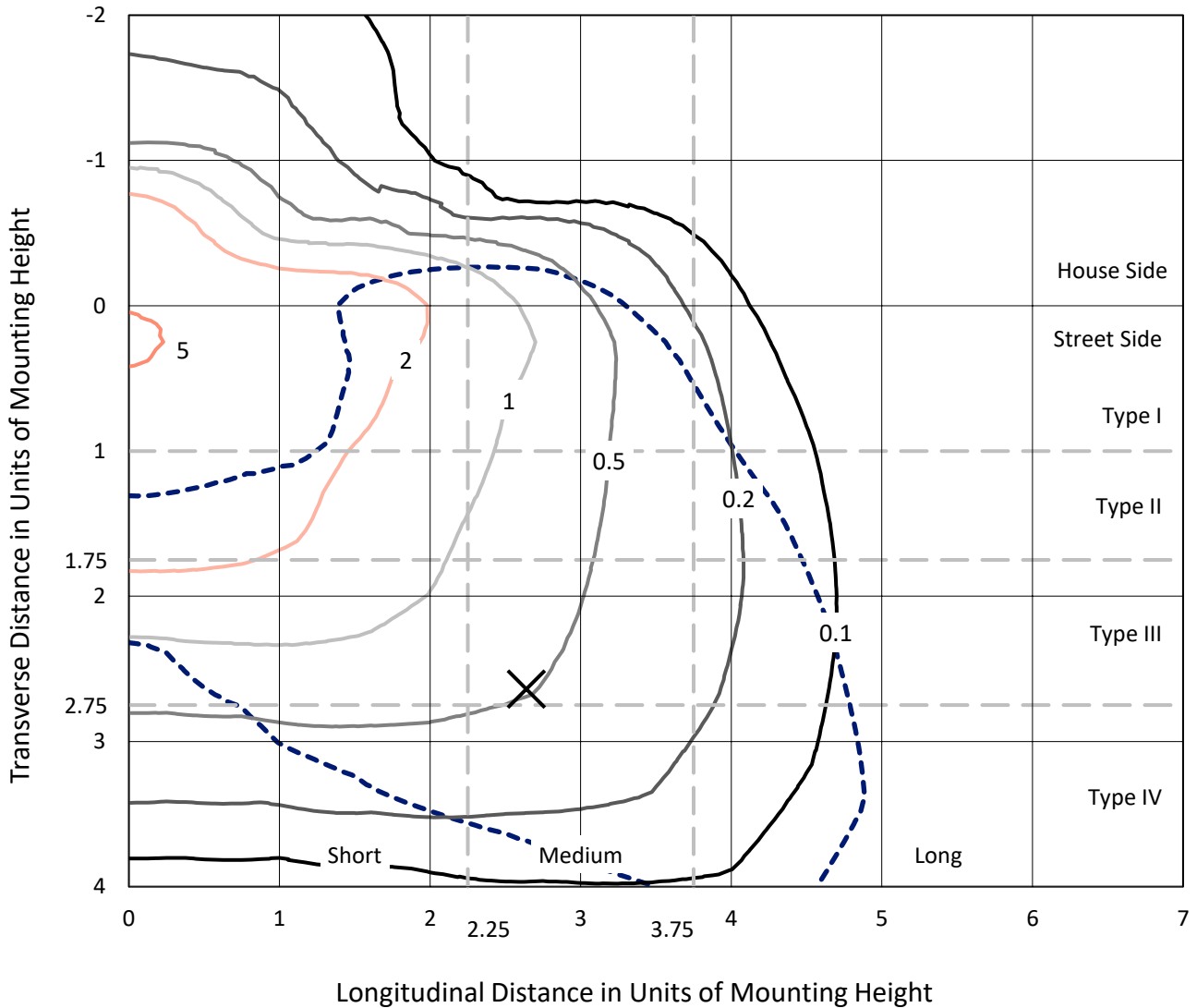
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

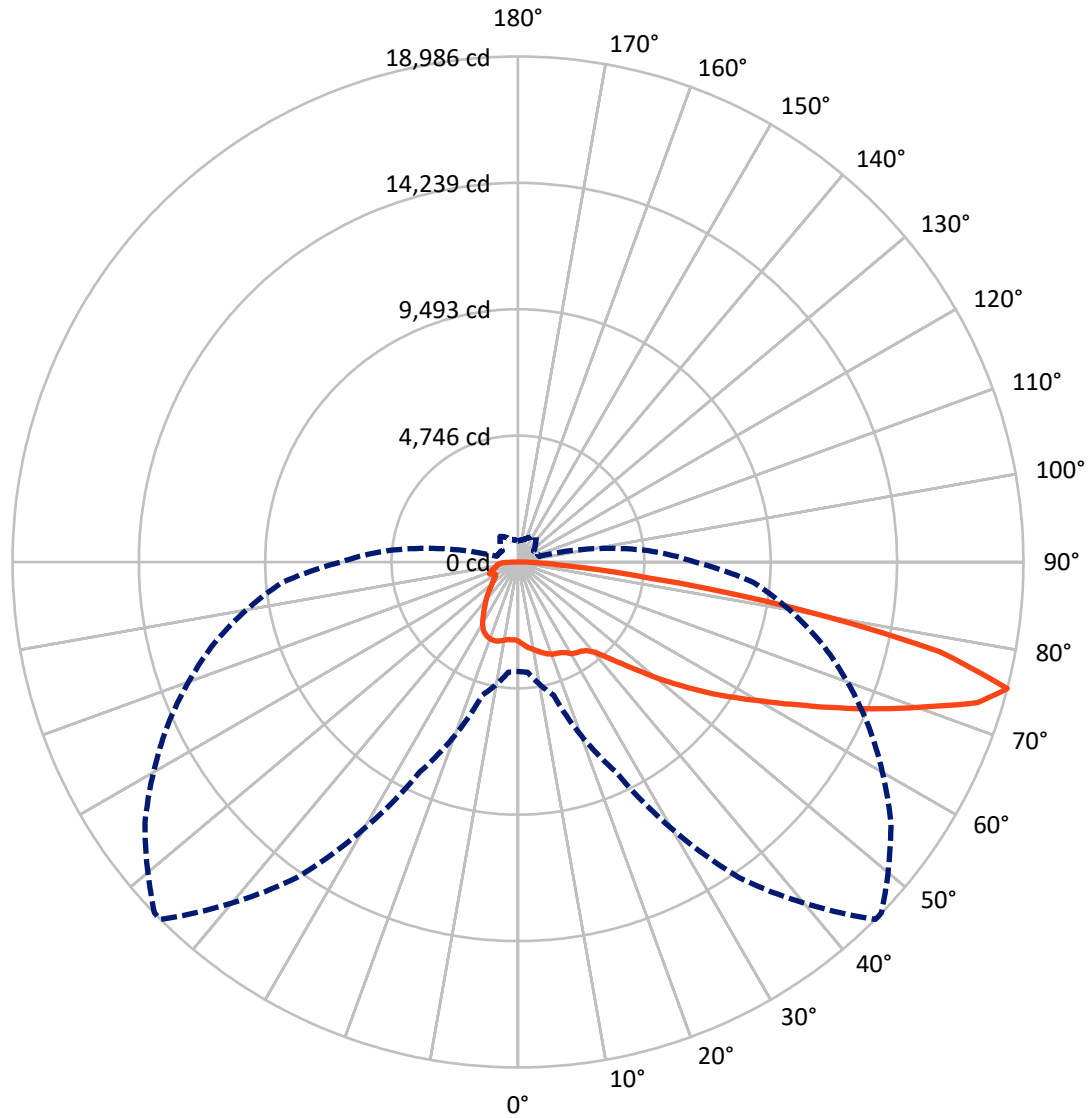
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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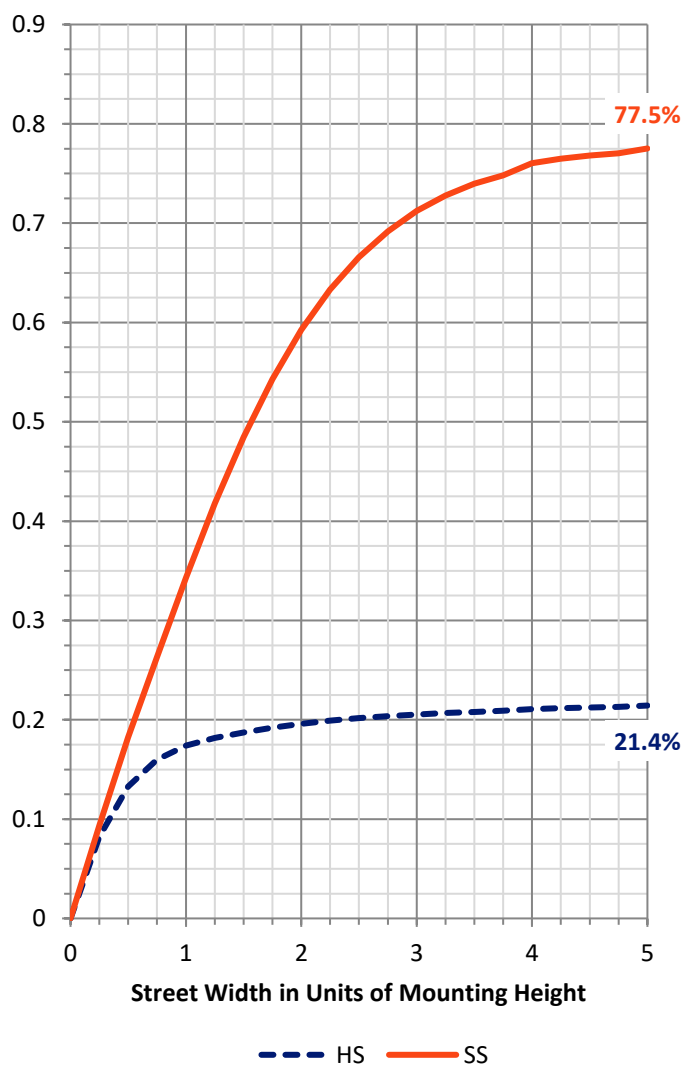
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6264.1	0.0	6264.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	22080.9	0.0	22080.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	28345.0	0.0	28345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.5	1.0
10°-20°	936.9	3.3
20°-30°	1597.3	5.6
30°-40°	2238.0	7.9
40°-50°	3287.9	11.6
50°-60°	5232.7	18.5
60°-70°	7443.6	26.3
70°-80°	6232.5	22.0
80°-90°	1081.6	3.8
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°	28345.0	100.0
0°-180°	28345.0	100.0

Coefficient of Utilization

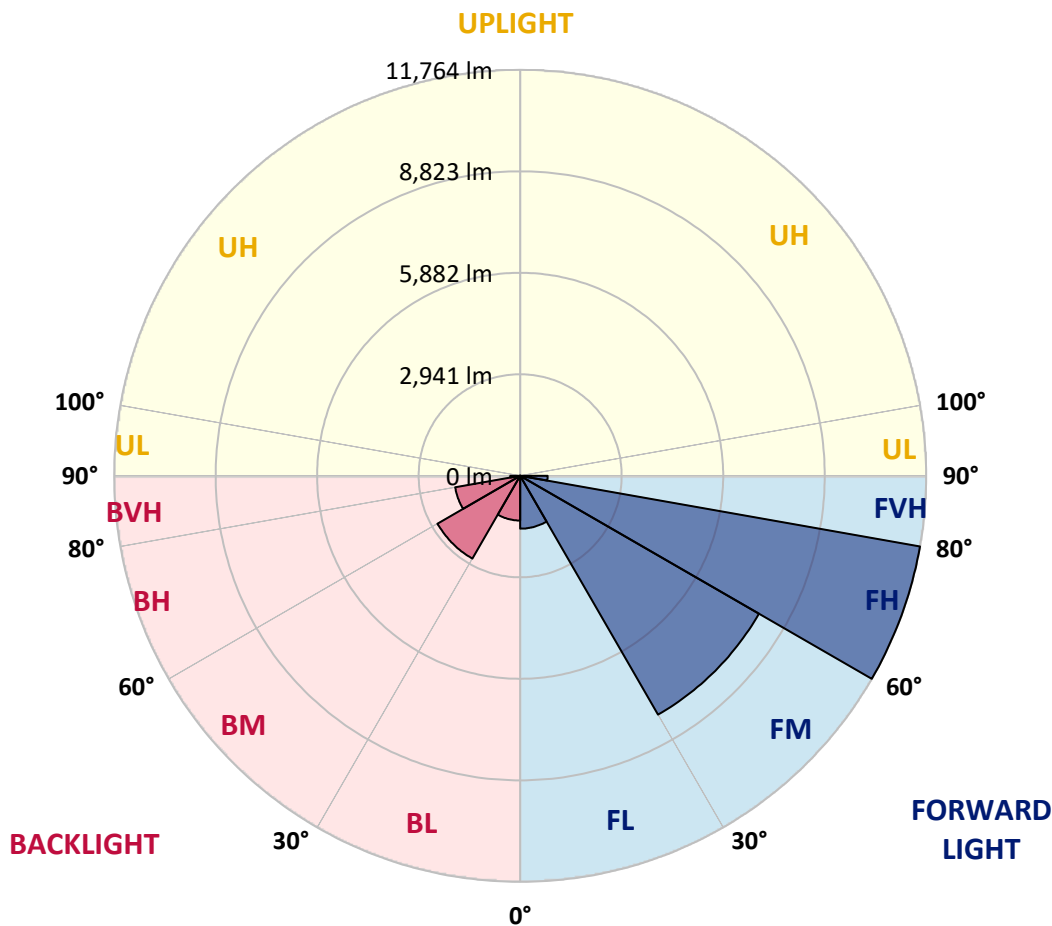


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.2	5.4			
FM (30°-60°)	7989.6	28.2			
FH (60°-80°)	11763.9	41.5			G4/12000
FVH (80°-90°)	795.2	2.8			G5
BL (0°-30°)	1296.4	4.6	B3/2500		
BM (30°-60°)	2769.0	9.8	B3/5000		
BH (60°-80°)	1912.2	6.7	B3/2500		G3/2500
BVH (80°-90°)	286.4	1.0			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°	46°	55°	65°	75°	85°
0°	2976.8	2976.8	2976.8	2976.8	2976.8	2976.8	2976.8	2976.8	2976.8	2976.8	2976.8
2.5°	3147.3	3132.1	3124.6	3124.6	3094.3	3075.3	3071.5	3045.0	3022.3	2999.6	2980.6
5°	3329.1	3317.7	3295.0	3276.0	3234.4	3181.4	3173.8	3117.0	3060.2	3007.1	2961.7
7.5°	3495.7	3473.0	3446.5	3408.6	3340.4	3268.5	3257.1	3177.6	3098.0	3018.5	2957.9
10°	3635.8	3613.1	3575.2	3522.2	3435.1	3348.0	3336.6	3253.3	3170.0	3075.3	2988.2
12.5°	3768.4	3749.5	3692.7	3620.7	3518.4	3438.9	3427.5	3355.6	3268.5	3162.4	3048.8
15°	3882.0	3863.1	3802.5	3719.2	3601.8	3541.2	3526.0	3457.8	3370.7	3257.1	3139.7
17.5°	3938.8	3938.8	3874.4	3783.5	3673.7	3628.3	3616.9	3533.6	3454.0	3344.2	3226.8
20°	3957.8	3965.3	3919.9	3810.1	3715.4	3696.4	3685.1	3616.9	3526.0	3420.0	3310.1
22.5°	3969.1	3984.3	3946.4	3821.4	3741.9	3730.5	3723.0	3677.5	3605.5	3503.3	3393.5
25°	4007.0	4007.0	3980.5	3840.4	3776.0	3772.2	3772.2	3745.7	3696.4	3609.3	3499.5
27.5°	4063.8	4060.0	4025.9	3882.0	3851.7	3863.1	3859.3	3855.5	3821.4	3734.3	3616.9
30°	4158.5	4158.5	4120.6	3965.3	3946.4	3995.6	3999.4	4007.0	3954.0	3817.6	3723.0
32.5°	4302.4	4287.3	4249.4	4048.7	4018.4	4063.8	4071.4	4067.6	4022.1	3893.4	3847.9
35°	4745.5	4711.4	4575.1	4234.2	4082.7	4109.3	4113.0	4132.0	4139.6	4037.3	4014.6
37.5°	5521.9	5476.5	5268.2	4673.6	4287.3	4222.9	4219.1	4268.3	4310.0	4219.1	4219.1
40°	6366.5	6328.6	6207.4	5431.0	4666.0	4453.9	4438.8	4484.2	4537.2	4472.8	4491.8
42.5°	7093.7	7124.0	7135.3	6234.0	5234.1	4885.7	4844.0	4779.6	4862.9	4806.1	4881.9
45°	7639.1	7623.9	7832.2	7055.8	5968.8	5427.3	5370.4	5196.2	5302.3	5298.5	5465.1
47.5°	8218.5	8192.0	8279.1	7828.4	6805.8	6090.0	6002.9	5745.4	5904.5	6014.3	6290.8
50°	8767.7	8775.3	8805.6	8438.2	7714.8	6896.7	6786.9	6442.3	6669.5	6900.5	7290.6
52.5°	9483.5	9430.5	9392.6	9150.2	8733.6	7737.5	7665.6	7271.7	7589.8	7862.5	8381.4
55°	10108.4	10074.3	10051.6	10040.2	9585.7	8665.4	8589.7	8180.6	8638.9	8832.1	9597.1
57.5°	10775.0	10756.0	10877.2	11070.4	10888.6	9608.5	9528.9	9135.1	9646.3	9782.7	10915.1
60°	11263.5	11274.9	11608.2	12100.5	11975.6	10631.0	10536.4	10187.9	10627.3	10748.5	12233.1
62.5°	11267.3	11380.9	12153.6	13036.0	13179.9	11808.9	11699.1	11320.3	11634.7	11634.7	13414.7
65°	10191.7	10320.5	12055.1	13267.0	14399.4	13210.2	13104.2	12509.6	12627.0	12467.9	14524.4
67.5°	9119.9	9271.4	10903.7	13286.0	15255.4	14710.0	14585.0	13698.8	13498.1	13096.6	15300.8
70°	8407.9	8513.9	9877.4	13039.8	15770.5	16278.0	16183.3	14827.4	14183.6	13623.0	15138.0
72.5°	7078.5	7040.7	8343.5	11869.5	16058.3	18058.0	17978.5	16054.5	14778.2	13373.1	12911.0
75°	4109.3	4154.7	5177.3	8695.7	14475.2	18985.9	18978.3	17103.6	14516.9	11812.7	8896.4
77.5°	1185.4	1219.5	1700.5	3821.4	9154.0	16194.6	16713.5	15641.7	12271.0	8419.2	4613.0
80°	518.9	545.4	738.5	1272.5	3942.6	10578.0	11032.5	10578.0	7400.5	3863.1	1810.3
82.5°	306.8	325.7	481.0	787.8	1889.9	5033.4	5646.9	4931.1	3192.7	1639.9	749.9
85°	174.2	181.8	276.5	499.9	1189.2	1761.1	1977.0	1852.0	1556.6	931.7	393.9
87.5°	79.5	83.3	136.3	234.8	666.6	594.6	617.3	818.1	901.4	568.1	196.9
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°	2976.8	2976.8	2976.8	2976.8	2976.8	2976.8	2976.8	2976.8	2976.8	2976.8	2976.8
2.5°	2973.1	2961.7	2939.0	2931.4	2920.0	2923.8	2927.6	2927.6	2931.4	2920.0	2920.0
5°	2942.8	2923.8	2901.1	2901.1	2901.1	2931.4	2957.9	2973.1	2980.6	2980.6	2973.1
7.5°	2931.4	2908.7	2882.2	2889.7	2897.3	2935.2	2984.4	3033.7	3048.8	3048.8	3041.2
10°	2954.1	2931.4	2912.5	2923.8	2942.8	2973.1	3010.9	3056.4	3094.3	3098.0	3094.3
12.5°	3007.1	2980.6	2961.7	2984.4	3007.1	3026.1	3045.0	3064.0	3113.2	3120.8	3120.8
15°	3094.3	3067.7	3045.0	3064.0	3071.5	3071.5	3071.5	3071.5	3120.8	3128.3	3128.3
17.5°	3181.4	3158.6	3135.9	3139.7	3117.0	3086.7	3075.3	3071.5	3098.0	3120.8	3124.6
20°	3264.7	3245.7	3223.0	3185.1	3128.3	3071.5	3052.6	3052.6	3067.7	3101.8	3101.8
22.5°	3355.6	3332.9	3295.0	3207.9	3113.2	3033.7	3014.7	3026.1	3045.0	3090.5	3086.7
25°	3457.8	3427.5	3363.2	3200.3	3064.0	2969.3	2973.1	3007.1	3041.2	3090.5	3090.5
27.5°	3571.5	3529.8	3401.0	3139.7	2954.1	2863.2	2897.3	2976.8	3026.1	3079.1	3086.7
30°	3696.4	3658.6	3431.3	3033.7	2776.1	2692.8	2776.1	2904.9	2980.6	3029.9	3041.2
32.5°	3847.9	3817.6	3457.8	2897.3	2545.1	2473.1	2594.3	2753.4	2874.6	2931.4	2942.8
35°	4037.3	4007.0	3491.9	2742.0	2329.2	2253.5	2363.3	2526.2	2685.2	2757.2	2779.9
37.5°	4283.5	4238.0	3522.2	2575.4	2147.4	2060.3	2113.3	2261.0	2405.0	2503.4	2529.9
40°	4597.8	4525.9	3548.7	2386.0	1988.4	1889.9	1908.8	1980.8	2064.1	2151.2	2185.3
42.5°	5040.9	4897.0	3552.5	2185.3	1825.5	1734.6	1727.0	1749.7	1749.7	1749.7	1761.1
45°	5658.3	5385.6	3560.1	1995.9	1658.9	1564.2	1541.4	1533.9	1477.1	1367.2	1359.7
47.5°	6438.5	6025.6	3594.2	1836.9	1484.6	1401.3	1371.0	1340.7	1234.7	1121.1	1098.3
50°	7438.3	6768.0	3662.4	1685.4	1336.9	1280.1	1242.2	1170.3	1052.9	965.8	943.0
52.5°	8589.7	7650.4	3726.7	1526.3	1227.1	1189.2	1143.8	1056.7	931.7	878.7	871.1
55°	9911.5	8635.1	3855.5	1386.2	1132.4	1105.9	1064.2	980.9	886.2	848.4	844.6
57.5°	11263.5	9737.2	4037.3	1261.2	1041.5	1026.4	1026.4	954.4	893.8	878.7	878.7
60°	12566.4	10684.1	3897.2	1143.8	958.2	965.8	1037.7	1018.8	973.3	992.3	1003.6
62.5°	13577.6	11240.8	3162.4	1049.1	897.6	965.8	1151.3	1151.3	1098.3	1090.8	1090.8
65°	14009.4	11233.2	2223.2	977.1	874.9	1060.5	1283.9	1223.3	1083.2	1030.2	1018.8
67.5°	13899.5	10740.9	1533.9	927.9	867.3	1158.9	1344.5	1174.1	1015.0	969.6	935.5
70°	12933.7	9699.4	1181.6	882.4	855.9	1117.3	1325.6	1117.3	962.0	920.3	890.0
72.5°	10434.1	7779.2	980.9	837.0	810.5	1033.9	1261.2	1064.2	920.3	874.9	844.6
75°	6654.3	4893.2	829.4	776.4	723.4	927.9	1174.1	1011.2	874.9	814.3	791.6
77.5°	3200.3	2109.5	723.4	704.4	651.4	859.7	1087.0	943.0	814.3	765.0	749.9
80°	1295.3	965.8	628.7	632.5	598.4	818.1	1026.4	878.7	753.7	700.7	674.1
82.5°	674.1	560.5	530.2	545.4	545.4	780.2	980.9	825.6	700.7	677.9	590.8
85°	363.6	348.4	409.0	439.3	473.4	704.4	912.7	768.8	640.1	549.2	530.2
87.5°	178.0	227.2	231.0	265.1	329.5	564.3	768.8	643.8	534.0	443.1	435.5
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)