

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: P400333

Luminaire Tested: **ARCH-L-PA3-260-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400333
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-PA3-260-830-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27185 lumens
Efficiency: N/A
Efficacy: 104.2 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

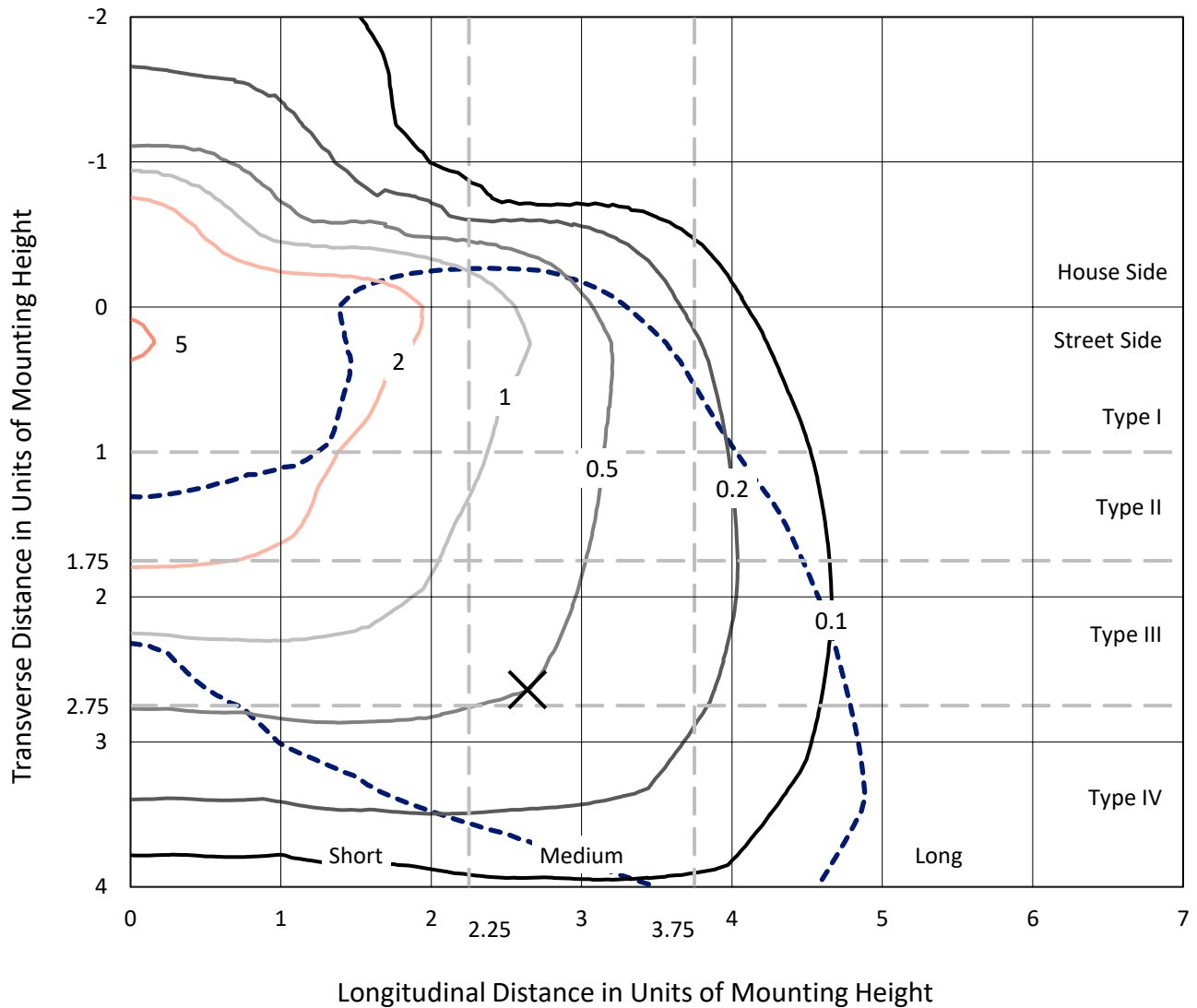
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

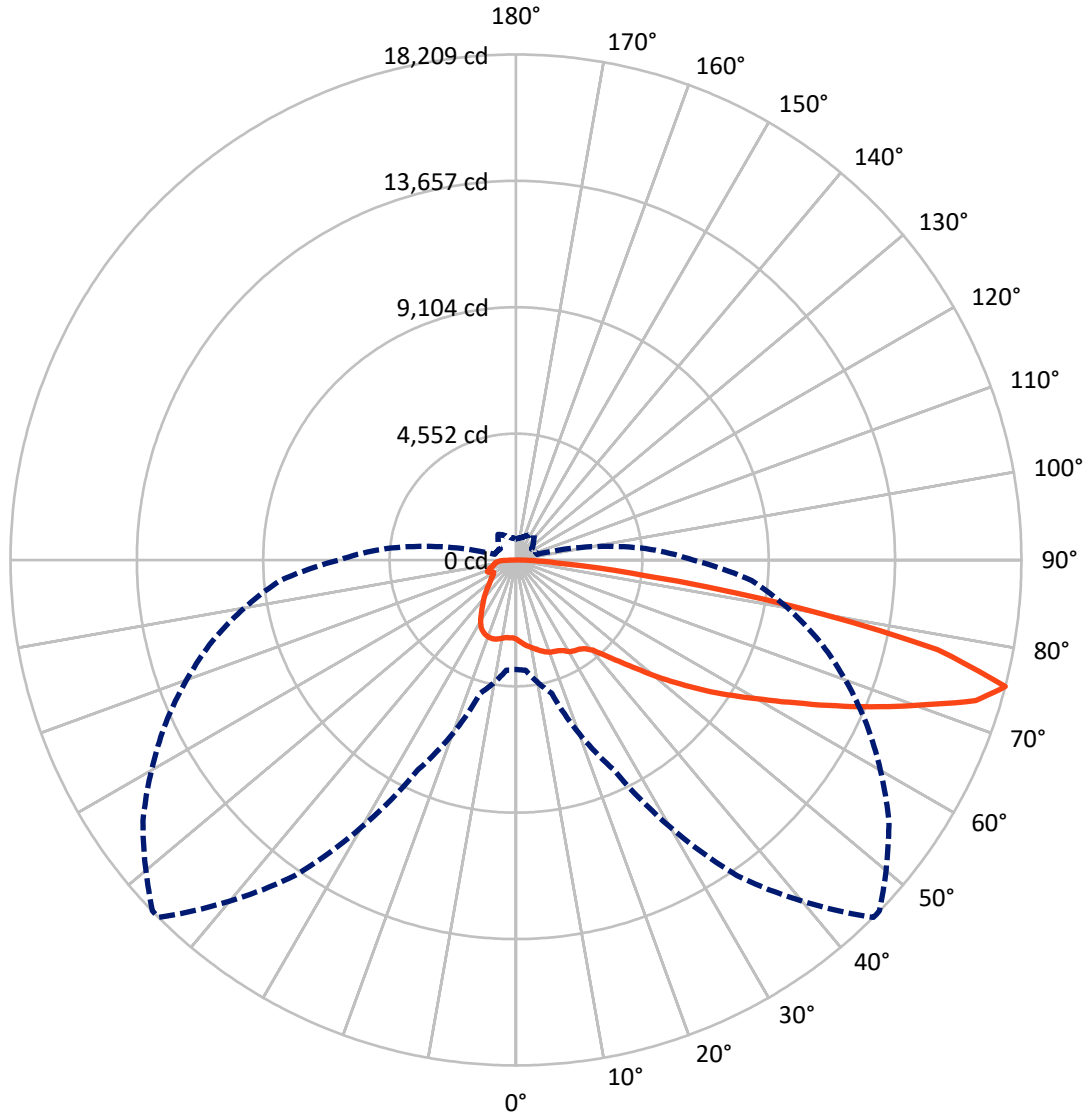
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	6007.8	0.0	6007.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	21177.3	0.0	21177.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	27185.0	0.0	27185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.4	1.0
10°-20°	898.6	3.3
20°-30°	1531.9	5.6
30°-40°	2146.4	7.9
40°-50°	3153.3	11.6
50°-60°	5018.6	18.5
60°-70°	7139.0	26.3
70°-80°	5977.4	22.0
80°-90°	1037.4	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°	27185.0	100.0
0°-180°	27185.0	100.0

Coefficient of Utilization

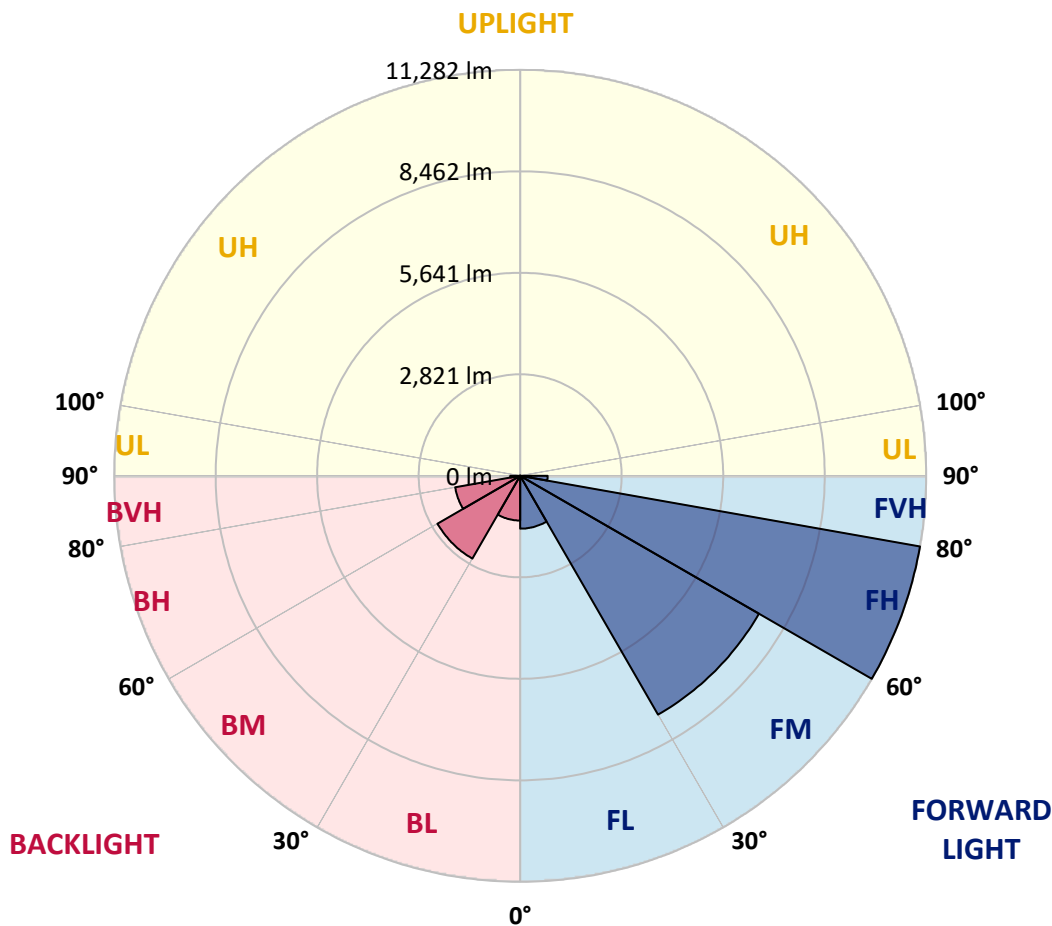


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.5	5.4			
FM (30°-60°)	7662.6	28.2			
FH (60°-80°)	11282.5	41.5			G4/12000
FVH (80°-90°)	762.7	2.8			G5
BL (0°-30°)	1243.4	4.6	B3/2500		
BM (30°-60°)	2655.7	9.8	B3/5000		
BH (60°-80°)	1833.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	274.7	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°	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0
2.5°	3018.5	3003.9	2996.7	2996.7	2967.6	2949.5	2945.8	2920.4	2898.6	2876.8	2858.7
5°	3192.8	3181.9	3160.1	3142.0	3102.0	3051.2	3043.9	2989.4	2934.9	2884.1	2840.5
7.5°	3352.7	3330.9	3305.4	3269.1	3203.7	3134.7	3123.8	3047.5	2971.3	2895.0	2836.9
10°	3487.0	3465.3	3428.9	3378.1	3294.5	3211.0	3200.1	3120.2	3040.3	2949.5	2865.9
12.5°	3614.2	3596.0	3541.5	3472.5	3374.4	3298.2	3287.3	3218.3	3134.7	3033.0	2924.0
15°	3723.1	3705.0	3646.9	3567.0	3454.4	3396.2	3381.7	3316.3	3232.8	3123.8	3011.2
17.5°	3777.6	3777.6	3715.9	3628.7	3523.4	3479.8	3468.9	3389.0	3312.7	3207.4	3094.8
20°	3795.8	3803.1	3759.5	3654.1	3563.3	3545.2	3534.3	3468.9	3381.7	3280.0	3174.7
22.5°	3806.7	3821.2	3784.9	3665.0	3588.8	3577.9	3570.6	3527.0	3458.0	3359.9	3254.6
25°	3843.0	3843.0	3817.6	3683.2	3621.4	3617.8	3617.8	3592.4	3545.2	3461.6	3356.3
27.5°	3897.5	3893.9	3861.2	3723.1	3694.1	3705.0	3701.4	3697.7	3665.0	3581.5	3468.9
30°	3988.3	3988.3	3952.0	3803.1	3784.9	3832.1	3835.8	3843.0	3792.2	3661.4	3570.6
32.5°	4126.3	4111.8	4075.5	3883.0	3853.9	3897.5	3904.8	3901.1	3857.5	3734.0	3690.5
35°	4551.3	4518.6	4387.9	4061.0	3915.7	3941.1	3944.7	3962.9	3970.1	3872.1	3850.3
37.5°	5296.0	5252.4	5052.6	4482.3	4111.8	4050.1	4046.4	4093.6	4133.6	4046.4	4046.4
40°	6106.0	6069.6	5953.4	5208.8	4475.0	4271.6	4257.1	4300.7	4351.5	4289.8	4308.0
42.5°	6803.4	6832.4	6843.3	5978.8	5019.9	4685.7	4645.8	4584.0	4663.9	4609.4	4682.1
45°	7326.4	7311.9	7511.7	6767.1	5724.6	5205.1	5150.7	4983.6	5085.3	5081.6	5241.5
47.5°	7882.2	7856.8	7940.3	7508.0	6527.3	5840.8	5757.3	5510.3	5662.8	5768.2	6033.3
50°	8408.9	8416.1	8445.2	8092.9	7399.1	6614.5	6509.2	6178.6	6396.6	6618.1	6992.3
52.5°	9095.4	9044.5	9008.2	8775.7	8376.2	7420.9	7351.9	6974.1	7279.2	7540.7	8038.4
55°	9694.7	9662.0	9640.2	9629.3	9193.5	8310.8	8238.1	7845.9	8285.4	8470.6	9204.4
57.5°	10334.0	10315.8	10432.1	10617.3	10443.0	9215.2	9139.0	8761.2	9251.6	9382.3	10468.4
60°	10802.6	10813.5	11133.1	11605.3	11485.5	10196.0	10105.2	9771.0	10192.3	10308.6	11732.5
62.5°	10806.2	10915.2	11656.2	12502.5	12640.5	11325.6	11220.3	10857.1	11158.6	11158.6	12865.8
65°	9774.6	9898.1	11561.7	12724.1	13810.2	12669.6	12567.9	11997.6	12110.2	11957.7	13930.0
67.5°	8746.7	8892.0	10457.5	12742.3	14631.1	14108.0	13988.1	13138.2	12945.7	12560.6	14674.7
70°	8063.8	8165.5	9473.1	12506.1	15125.1	15611.8	15521.0	14220.6	13603.1	13065.5	14518.5
72.5°	6788.8	6752.5	8002.0	11383.8	15401.1	17319.0	17242.7	15397.5	14173.4	12825.8	12382.6
75°	3941.1	3984.7	4965.4	8339.9	13882.8	18208.9	18201.7	16403.7	13922.8	11329.3	8532.4
77.5°	1136.9	1169.6	1630.9	3665.0	8779.4	15531.9	16029.5	15001.6	11768.8	8074.7	4424.2
80°	497.6	523.1	708.3	1220.5	3781.3	10145.1	10581.0	10145.1	7097.6	3705.0	1736.3
82.5°	294.2	312.4	461.3	755.5	1812.5	4827.4	5415.8	4729.3	3062.1	1572.8	719.2
85°	167.1	174.4	265.2	479.5	1140.6	1689.0	1896.1	1776.2	1492.9	893.6	377.8
87.5°	76.3	79.9	130.8	225.2	639.3	570.3	592.1	784.6	864.5	544.9	188.9
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°	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0
2.5°	2851.4	2840.5	2818.7	2811.4	2800.5	2804.2	2807.8	2807.8	2811.4	2800.5	2800.5
5°	2822.3	2804.2	2782.4	2782.4	2782.4	2811.4	2836.9	2851.4	2858.7	2858.7	2851.4
7.5°	2811.4	2789.6	2764.2	2771.5	2778.7	2815.1	2862.3	2909.5	2924.0	2924.0	2916.8
10°	2833.2	2811.4	2793.3	2804.2	2822.3	2851.4	2887.7	2931.3	2967.6	2971.3	2967.6
12.5°	2884.1	2858.7	2840.5	2862.3	2884.1	2902.2	2920.4	2938.6	2985.8	2993.0	2993.0
15°	2967.6	2942.2	2920.4	2938.6	2945.8	2945.8	2945.8	2945.8	2993.0	3000.3	3000.3
17.5°	3051.2	3029.4	3007.6	3011.2	2989.4	2960.4	2949.5	2945.8	2971.3	2993.0	2996.7
20°	3131.1	3112.9	3091.1	3054.8	3000.3	2945.8	2927.7	2927.7	2942.2	2974.9	2974.9
22.5°	3218.3	3196.5	3160.1	3076.6	2985.8	2909.5	2891.3	2902.2	2920.4	2964.0	2960.4
25°	3316.3	3287.3	3225.5	3069.3	2938.6	2847.8	2851.4	2884.1	2916.8	2964.0	2964.0
27.5°	3425.3	3385.3	3261.8	3011.2	2833.2	2746.0	2778.7	2855.0	2902.2	2953.1	2960.4
30°	3545.2	3508.8	3290.9	2909.5	2662.5	2582.6	2662.5	2786.0	2858.7	2905.9	2916.8
32.5°	3690.5	3661.4	3316.3	2778.7	2440.9	2371.9	2488.2	2640.7	2756.9	2811.4	2822.3
35°	3872.1	3843.0	3349.0	2629.8	2233.9	2161.2	2266.6	2422.8	2575.3	2644.3	2666.1
37.5°	4108.2	4064.6	3378.1	2470.0	2059.5	1976.0	2026.8	2168.5	2306.5	2401.0	2426.4
40°	4409.7	4340.6	3403.5	2288.4	1907.0	1812.5	1830.7	1899.7	1979.6	2063.2	2095.9
42.5°	4834.6	4696.6	3407.1	2095.9	1750.8	1663.6	1656.3	1678.1	1678.1	1678.1	1689.0
45°	5426.7	5165.2	3414.4	1914.2	1591.0	1500.2	1478.4	1471.1	1416.6	1311.3	1304.0
47.5°	6175.0	5779.1	3447.1	1761.7	1423.9	1344.0	1314.9	1285.8	1184.1	1075.2	1053.4
50°	7133.9	6491.0	3512.5	1616.4	1282.2	1227.7	1191.4	1122.4	1009.8	926.2	904.5
52.5°	8238.1	7337.3	3574.2	1463.8	1176.9	1140.6	1097.0	1013.4	893.6	842.7	835.4
55°	9505.8	8281.7	3697.7	1329.4	1086.1	1060.6	1020.7	940.8	850.0	813.6	810.0
57.5°	10802.6	9338.7	3872.1	1209.6	998.9	984.4	984.4	915.3	857.2	842.7	842.7
60°	12052.1	10246.8	3737.7	1097.0	919.0	926.2	995.3	977.1	933.5	951.7	962.6
62.5°	13021.9	10780.8	3033.0	1006.2	860.9	926.2	1104.2	1104.2	1053.4	1046.1	1046.1
65°	13436.0	10773.5	2132.2	937.1	839.1	1017.1	1231.4	1173.2	1038.8	988.0	977.1
67.5°	13330.7	10301.3	1471.1	889.9	831.8	1111.5	1289.5	1126.0	973.5	929.9	897.2
70°	12404.4	9302.4	1133.3	846.3	820.9	1071.5	1271.3	1071.5	922.6	882.7	853.6
72.5°	10007.1	7460.8	940.8	802.7	777.3	991.6	1209.6	1020.7	882.7	839.1	810.0
75°	6382.0	4693.0	795.5	744.6	693.8	889.9	1126.0	969.8	839.1	781.0	759.2
77.5°	3069.3	2023.2	693.8	675.6	624.8	824.5	1042.5	904.5	781.0	733.7	719.2
80°	1242.3	926.2	603.0	606.6	573.9	784.6	984.4	842.7	722.8	672.0	646.6
82.5°	646.6	537.6	508.5	523.1	523.1	748.3	940.8	791.9	672.0	650.2	566.6
85°	348.7	334.2	392.3	421.4	454.0	675.6	875.4	737.4	613.9	526.7	508.5
87.5°	170.7	217.9	221.6	254.3	316.0	541.2	737.4	617.5	512.2	425.0	417.7
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)