

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: P400261

Luminaire Tested: **ARCH-L-PA3-250-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400261
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-PA3-250-830-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26555 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

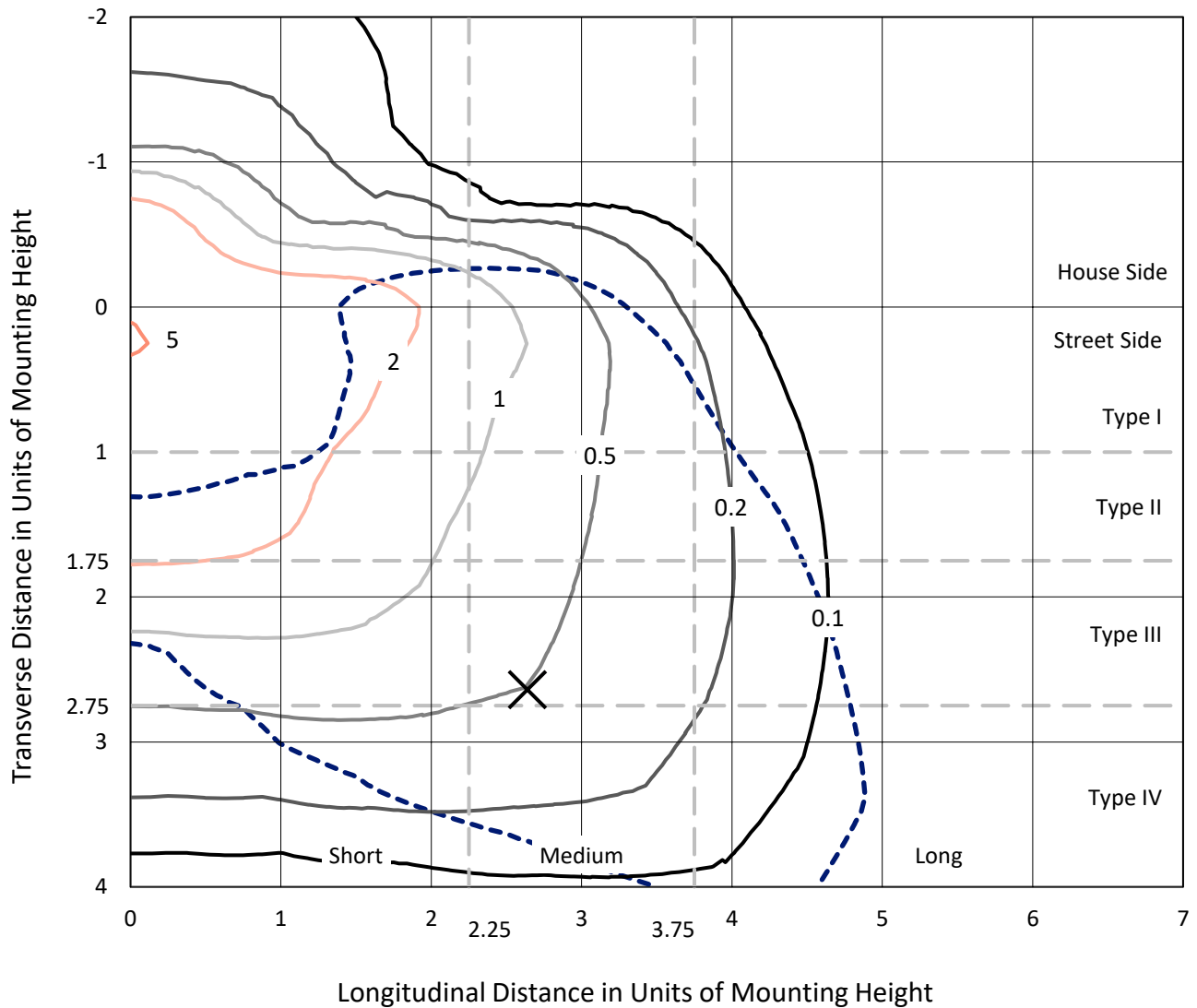
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

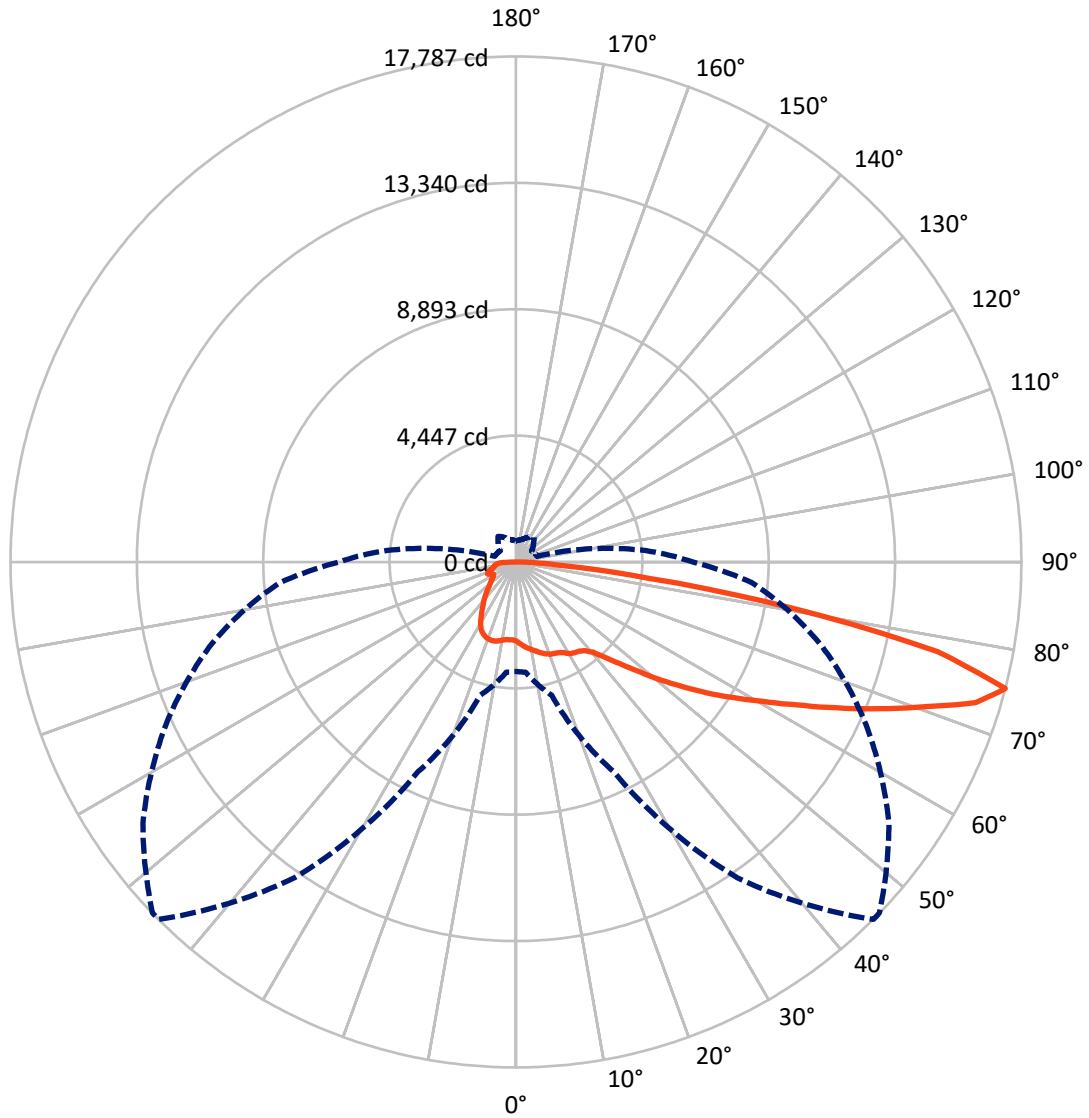
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	5868.5	0.0	5868.5
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	20686.5	0.0	20686.5
	% Fixture	77.9	0.0	77.9
Total	Lumens	26555.0	0.0	26555.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.9	1.0
10°-20°	877.7	3.3
20°-30°	1496.4	5.6
30°-40°	2096.6	7.9
40°-50°	3080.3	11.6
50°-60°	4902.3	18.5
60°-70°	6973.5	26.3
70°-80°	5838.9	22.0
80°-90°	1013.3	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°	26555.0	100.0
0°-180°	26555.0	100.0

Coefficient of Utilization

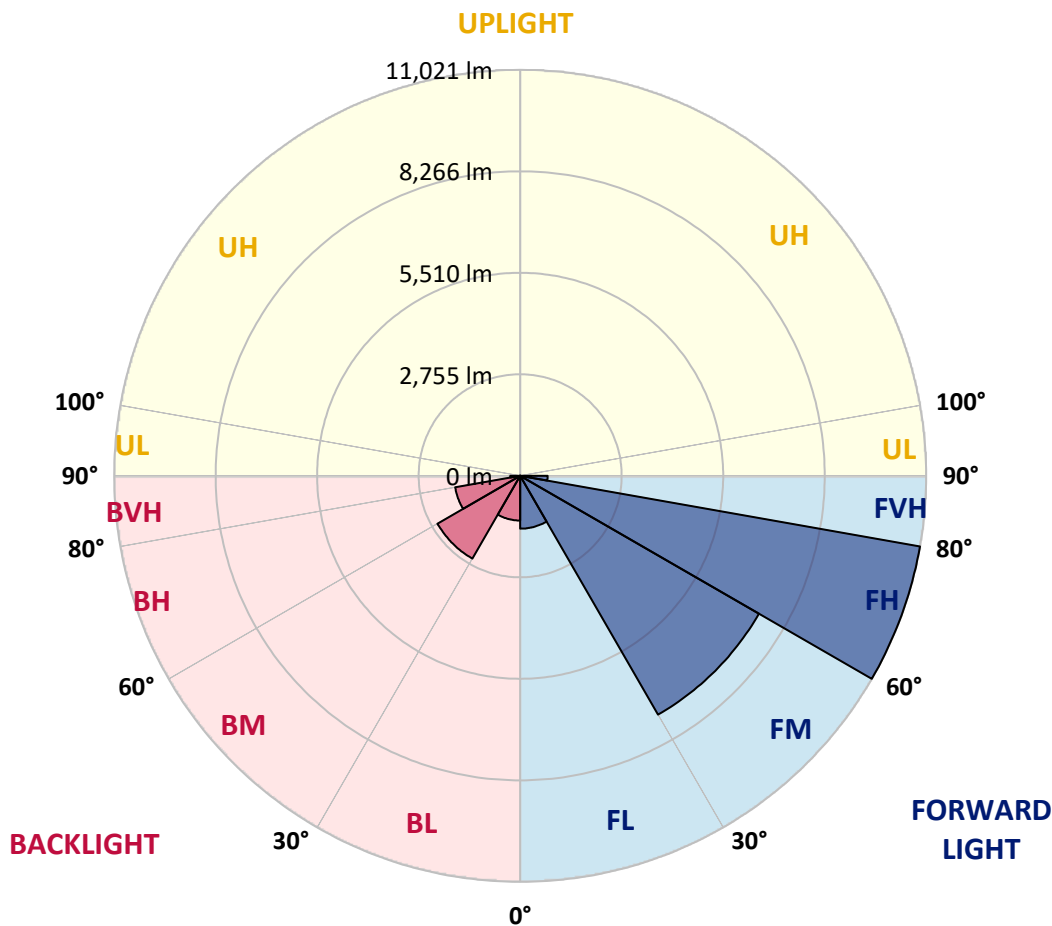


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.5	5.4			
FM (30°-60°)	7485.0	28.2			
FH (60°-80°)	11021.0	41.5			G4/12000
FVH (80°-90°)	745.0	2.8			G4/750
BL (0°-30°)	1214.6	4.6	B3/2500		
BM (30°-60°)	2594.2	9.8	B3/5000		
BH (60°-80°)	1791.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	268.4	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9
2.5°	2948.5	2934.3	2927.2	2927.2	2898.8	2881.1	2877.6	2852.7	2831.4	2810.1	2792.4
5°	3118.8	3108.2	3086.9	3069.2	3030.1	2980.5	2973.4	2920.1	2866.9	2817.2	2774.7
7.5°	3275.0	3253.7	3228.8	3193.3	3129.5	3062.1	3051.4	2976.9	2902.4	2827.9	2771.1
10°	3406.2	3384.9	3349.5	3299.8	3218.2	3136.6	3125.9	3047.9	2969.8	2881.1	2799.5
12.5°	3530.4	3512.7	3459.5	3392.0	3296.2	3221.7	3211.1	3143.7	3062.1	2962.7	2856.3
15°	3636.9	3619.1	3562.4	3484.3	3374.3	3317.5	3303.3	3239.5	3157.9	3051.4	2941.4
17.5°	3690.1	3690.1	3629.8	3544.6	3441.7	3399.1	3388.5	3310.4	3235.9	3133.0	3023.0
20°	3707.8	3714.9	3672.3	3569.5	3480.7	3463.0	3452.4	3388.5	3303.3	3204.0	3101.1
22.5°	3718.5	3732.7	3697.2	3580.1	3505.6	3494.9	3487.8	3445.3	3377.9	3282.1	3179.2
25°	3754.0	3754.0	3729.1	3597.8	3537.5	3534.0	3534.0	3509.1	3463.0	3381.4	3278.5
27.5°	3807.2	3803.6	3771.7	3636.9	3608.5	3619.1	3615.6	3612.0	3580.1	3498.5	3388.5
30°	3895.9	3895.9	3860.4	3714.9	3697.2	3743.3	3746.9	3754.0	3704.3	3576.5	3487.8
32.5°	4030.7	4016.5	3981.0	3793.0	3764.6	3807.2	3814.3	3810.7	3768.1	3647.5	3604.9
35°	4445.8	4413.9	4286.2	3966.8	3824.9	3849.8	3853.3	3871.0	3878.1	3782.3	3761.1
37.5°	5173.2	5130.6	4935.5	4378.4	4016.5	3956.2	3952.7	3998.8	4037.8	3952.7	3952.7
40°	5964.5	5929.0	5815.4	5088.1	4371.3	4172.6	4158.4	4201.0	4250.7	4190.4	4208.1
42.5°	6645.7	6674.1	6684.7	5840.3	4903.6	4577.1	4538.1	4477.8	4555.8	4502.6	4573.6
45°	7156.6	7142.5	7337.6	6610.2	5591.9	5084.5	5031.3	4868.1	4967.4	4963.9	5120.0
47.5°	7699.5	7674.7	7756.3	7334.1	6376.0	5705.4	5623.8	5382.6	5531.6	5634.5	5893.5
50°	8214.0	8221.1	8249.5	7905.3	7227.6	6461.2	6358.3	6035.4	6248.3	6464.8	6830.2
52.5°	8884.6	8834.9	8799.4	8572.4	8182.1	7248.9	7181.5	6812.5	7110.5	7366.0	7852.1
55°	9470.0	9438.1	9416.8	9406.2	8980.4	8118.2	8047.2	7664.0	8093.4	8274.3	8991.0
57.5°	10094.5	10076.8	10190.3	10371.3	10201.0	9001.7	8927.2	8558.2	9037.2	9164.9	10225.8
60°	10552.2	10562.9	10875.1	11336.4	11219.3	9959.7	9871.0	9544.6	9956.1	10069.7	11460.6
62.5°	10555.8	10662.2	11386.1	12212.8	12347.6	11063.2	10960.3	10605.5	10900.0	10900.0	12567.6
65°	9548.1	9668.7	11293.8	12429.2	13490.1	12376.0	12276.6	11719.6	11829.6	11680.6	13607.2
67.5°	8544.0	8685.9	10215.2	12447.0	14292.0	13781.1	13664.0	12833.7	12645.7	12269.5	14334.6
70°	7876.9	7976.3	9253.6	12216.3	14774.6	15250.0	15161.3	13891.1	13287.9	12762.7	14182.0
72.5°	6631.5	6596.0	7816.6	11119.9	15044.2	16917.6	16843.1	15040.7	13844.9	12528.6	12095.7
75°	3849.8	3892.3	4850.3	8146.6	13561.1	17786.9	17779.8	16023.5	13600.1	11066.7	8334.6
77.5°	1110.6	1142.5	1593.1	3580.1	8575.9	15171.9	15658.0	14653.9	11496.0	7887.6	4321.7
80°	486.1	510.9	691.9	1192.2	3693.6	9910.0	10335.8	9910.0	6933.1	3619.1	1696.0
82.5°	287.4	305.1	450.6	738.0	1770.5	4715.5	5290.3	4619.7	2991.1	1536.4	702.5
85°	163.2	170.3	259.0	468.4	1114.1	1649.9	1852.1	1735.1	1458.3	872.8	369.0
87.5°	74.5	78.1	127.7	220.0	624.5	557.1	578.4	766.4	844.5	532.2	184.5
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°	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9
2.5°	2785.3	2774.7	2753.4	2746.3	2735.6	2739.2	2742.7	2742.7	2746.3	2735.6	2735.6
5°	2756.9	2739.2	2717.9	2717.9	2717.9	2746.3	2771.1	2785.3	2792.4	2792.4	2785.3
7.5°	2746.3	2725.0	2700.2	2707.2	2714.3	2749.8	2796.0	2842.1	2856.3	2856.3	2849.2
10°	2767.6	2746.3	2728.5	2739.2	2756.9	2785.3	2820.8	2863.4	2898.8	2902.4	2898.8
12.5°	2817.2	2792.4	2774.7	2796.0	2817.2	2835.0	2852.7	2870.5	2916.6	2923.7	2923.7
15°	2898.8	2874.0	2852.7	2870.5	2877.6	2877.6	2877.6	2877.6	2923.7	2930.8	2930.8
17.5°	2980.5	2959.2	2937.9	2941.4	2920.1	2891.8	2881.1	2877.6	2902.4	2923.7	2927.2
20°	3058.5	3040.8	3019.5	2984.0	2930.8	2877.6	2859.8	2859.8	2874.0	2905.9	2905.9
22.5°	3143.7	3122.4	3086.9	3005.3	2916.6	2842.1	2824.3	2835.0	2852.7	2895.3	2891.8
25°	3239.5	3211.1	3150.8	2998.2	2870.5	2781.8	2785.3	2817.2	2849.2	2895.3	2895.3
27.5°	3345.9	3306.9	3186.3	2941.4	2767.6	2682.4	2714.3	2788.9	2835.0	2884.7	2891.8
30°	3463.0	3427.5	3214.6	2842.1	2600.8	2522.7	2600.8	2721.4	2792.4	2838.5	2849.2
32.5°	3604.9	3576.5	3239.5	2714.3	2384.4	2317.0	2430.5	2579.5	2693.1	2746.3	2756.9
35°	3782.3	3754.0	3271.4	2568.9	2182.1	2111.2	2214.1	2366.6	2515.6	2583.1	2604.4
37.5°	4013.0	3970.4	3299.8	2412.8	2011.8	1930.2	1979.9	2118.3	2253.1	2345.3	2370.2
40°	4307.5	4240.1	3324.6	2235.3	1862.8	1770.5	1788.3	1855.7	1933.7	2015.4	2047.3
42.5°	4722.6	4587.8	3328.2	2047.3	1710.2	1625.1	1618.0	1639.3	1639.3	1639.3	1649.9
45°	5301.0	5045.5	3335.3	1869.9	1554.1	1465.4	1444.1	1437.0	1383.8	1280.9	1273.8
47.5°	6031.9	5645.1	3367.2	1720.9	1390.9	1312.8	1284.4	1256.0	1156.7	1050.3	1029.0
50°	6968.6	6340.6	3431.1	1578.9	1252.5	1199.3	1163.8	1096.4	986.4	904.8	883.5
52.5°	8047.2	7167.3	3491.4	1429.9	1149.6	1114.1	1071.5	989.9	872.8	823.2	816.1
55°	9285.5	8089.8	3612.0	1298.6	1060.9	1036.1	997.0	919.0	830.3	794.8	791.2
57.5°	10552.2	9122.3	3782.3	1181.5	975.7	961.6	961.6	894.1	837.4	823.2	823.2
60°	11772.8	10009.4	3651.1	1071.5	897.7	904.8	972.2	954.5	911.9	929.6	940.3
62.5°	12720.2	10530.9	2962.7	982.8	840.9	904.8	1078.6	1078.6	1029.0	1021.9	1021.9
65°	13124.7	10523.9	2082.8	915.4	819.6	993.5	1202.8	1146.1	1014.8	965.1	954.5
67.5°	13021.8	10062.6	1437.0	869.3	812.5	1085.7	1259.6	1099.9	950.9	908.3	876.4
70°	12117.0	9086.8	1107.0	826.7	801.9	1046.7	1241.9	1046.7	901.2	862.2	833.8
72.5°	9775.2	7287.9	919.0	784.1	759.3	968.6	1181.5	997.0	862.2	819.6	791.2
75°	6234.1	4584.2	777.0	727.4	677.7	869.3	1099.9	947.4	819.6	762.9	741.6
77.5°	2998.2	1976.3	677.7	660.0	610.3	805.4	1018.3	883.5	762.9	716.7	702.5
80°	1213.5	904.8	589.0	592.5	560.6	766.4	961.6	823.2	706.1	656.4	631.6
82.5°	631.6	525.1	496.7	510.9	510.9	730.9	919.0	773.5	656.4	635.1	553.5
85°	340.6	326.4	383.2	411.6	443.5	660.0	855.1	720.3	599.6	514.5	496.7
87.5°	166.8	212.9	216.4	248.4	308.7	528.7	720.3	603.2	500.3	415.1	408.0
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)