

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: P400048

Luminaire Tested: **ARCH-L-PA3-230-722-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-230-722-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23487 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

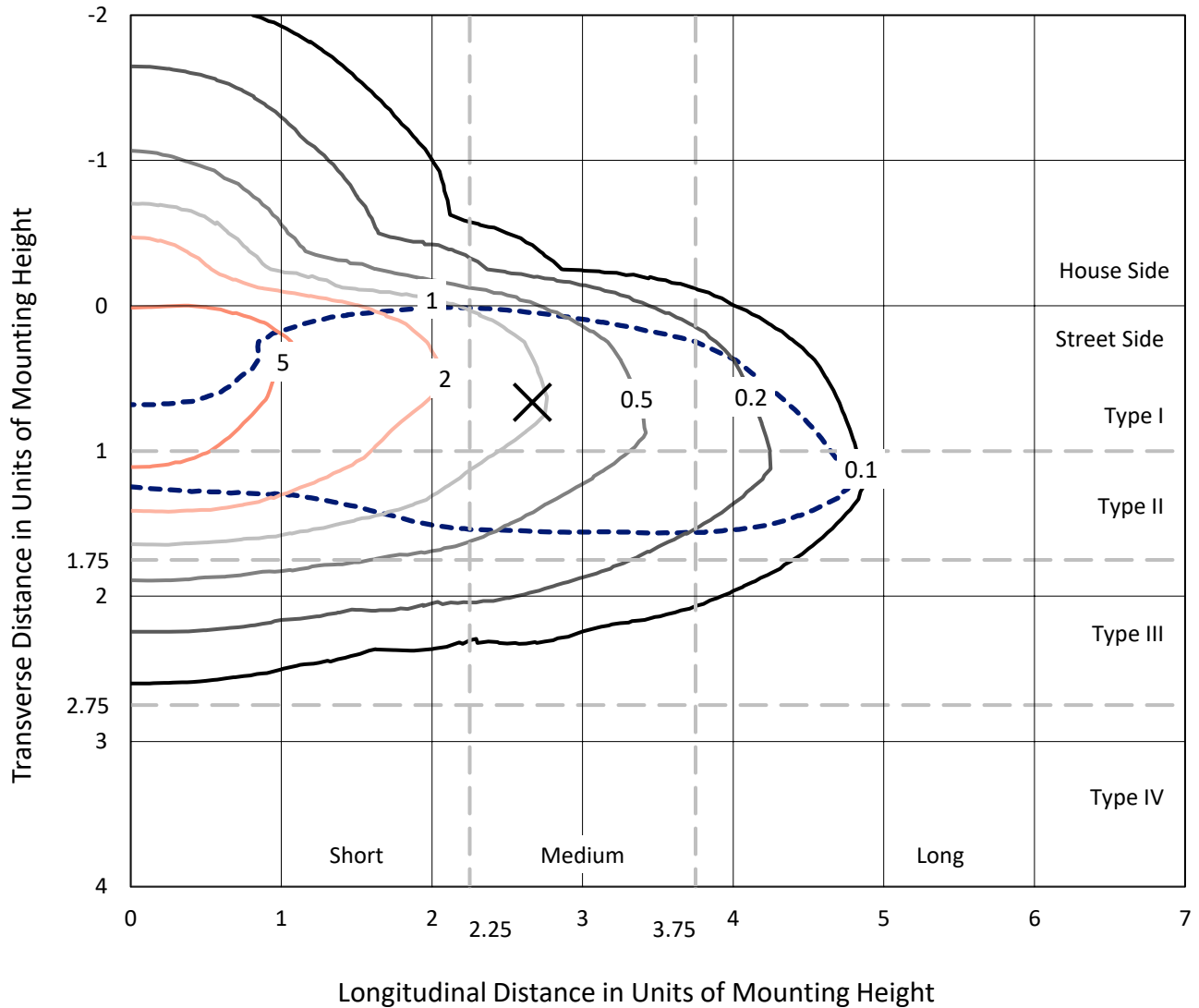
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

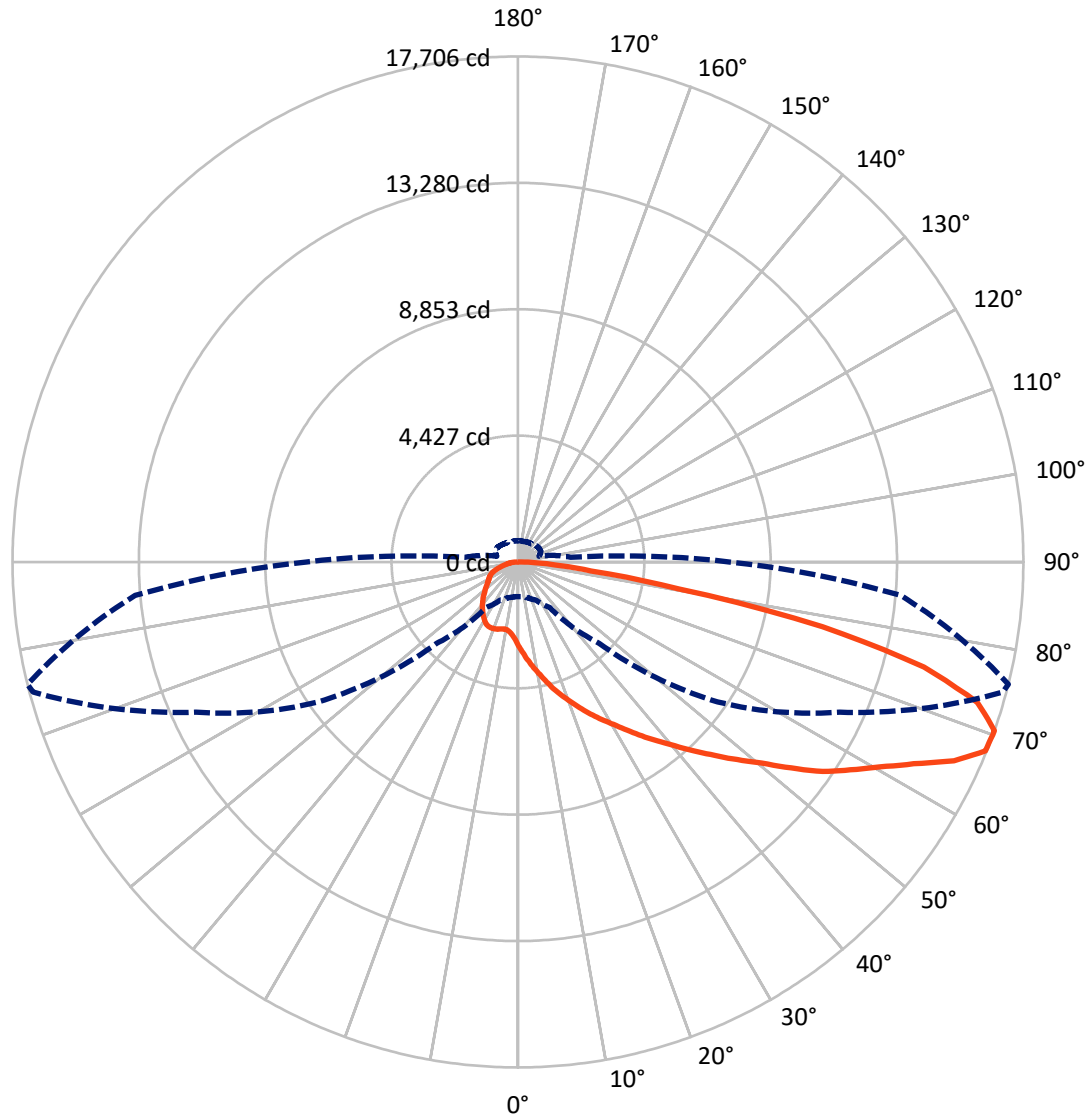
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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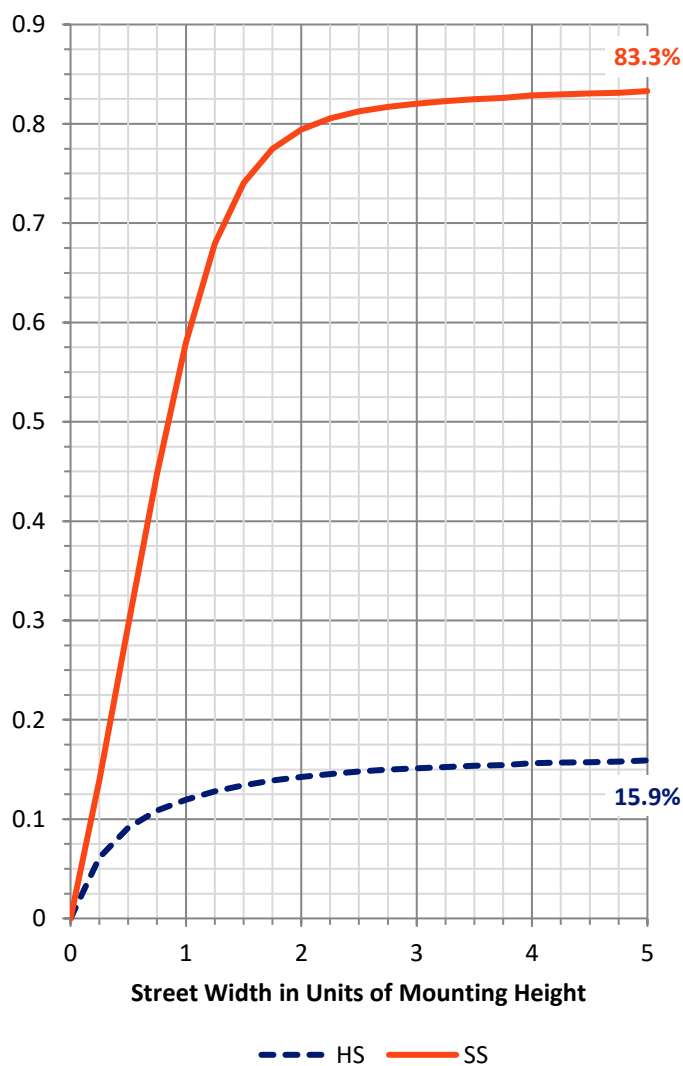
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3834.5	0.0	3834.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	19652.5	0.0	19652.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	23487.0	0.0	23487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	1.3
10°-20°	1037.2	4.4
20°-30°	1855.7	7.9
30°-40°	3001.9	12.8
40°-50°	4342.7	18.5
50°-60°	4970.5	21.2
60°-70°	4572.3	19.5
70°-80°	2827.4	12.0
80°-90°	574.2	2.4
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°	23487.0	100.0
0°-180°	23487.0	100.0

Coefficient of Utilization



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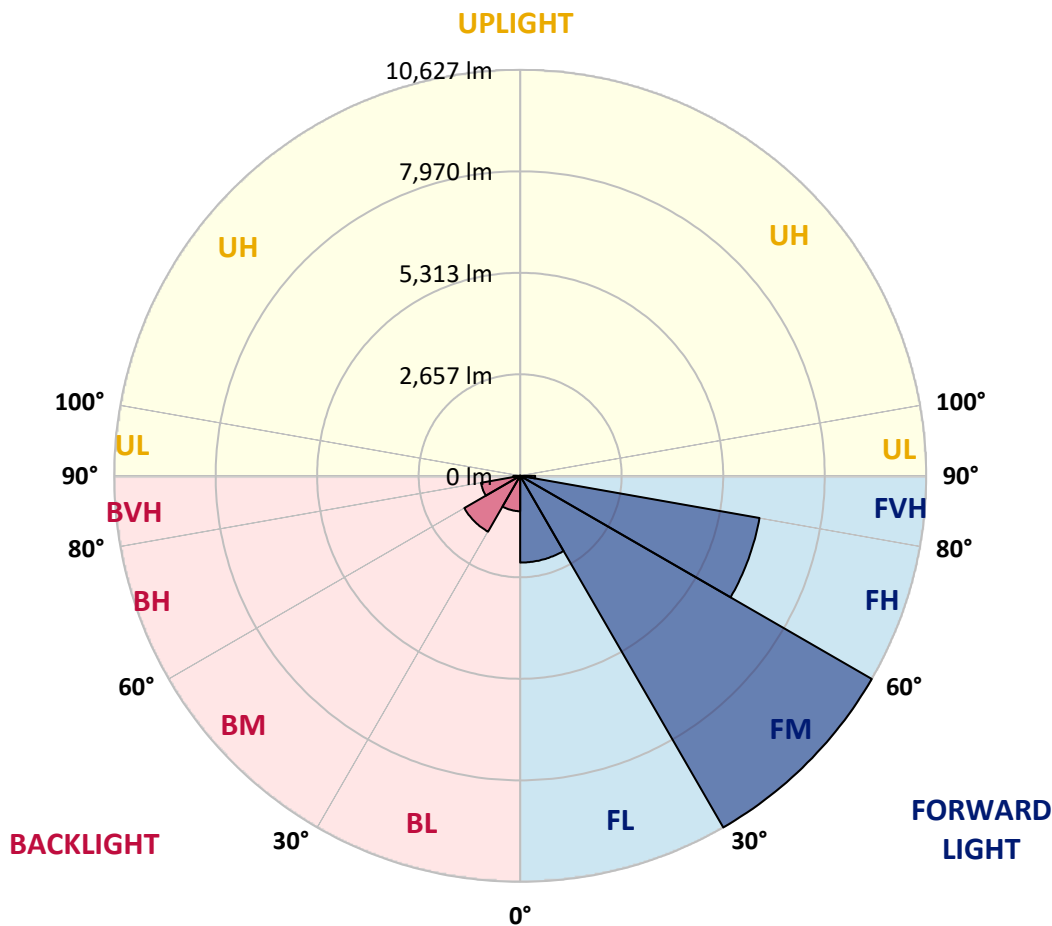
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2272.0	9.7			
FM (30°-60°)	10626.8	45.2			
FH (60°-80°)	6359.6	27.1			G3/7500
FVH (80°-90°)	394.2	1.7			G3/500
BL (0°-30°)	926.1	3.9	B2/1000		
BM (30°-60°)	1688.3	7.2	B2/2500		
BH (60°-80°)	1040.0	4.4	B3/2500		G3/2500
BVH (80°-90°)	180.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1
2.5°	3743.2	3715.4	3712.4	3669.1	3629.0	3520.9	3443.7	3307.8	3171.9	3168.8	3032.9
5°	4327.0	4299.2	4283.7	4231.2	4163.3	4021.2	3882.2	3672.2	3440.6	3425.1	3168.8
7.5°	4722.3	4697.6	4666.7	4645.1	4580.2	4453.6	4283.7	4033.6	3715.4	3684.6	3326.3
10°	4987.9	4972.5	4966.3	4950.8	4910.7	4808.8	4645.1	4379.5	3990.3	3956.4	3493.1
12.5°	5102.2	5096.0	5123.8	5167.0	5182.5	5142.3	4984.8	4734.6	4293.0	4255.9	3693.8
15°	4969.4	4975.6	5046.6	5194.8	5352.3	5438.8	5346.2	5102.2	4635.8	4583.3	3928.6
17.5°	4907.6	4916.9	4966.3	5108.4	5330.7	5599.4	5642.7	5451.2	4966.3	4892.2	4175.6
20°	5015.7	5028.1	5065.1	5176.3	5330.7	5618.0	5843.4	5784.7	5290.6	5213.4	4413.4
22.5°	5290.6	5306.0	5302.9	5374.0	5479.0	5676.6	5954.6	6099.8	5630.3	5543.8	4660.5
25°	5877.4	5865.0	5760.0	5726.1	5753.8	5880.5	6102.8	6402.4	5985.5	5899.0	4920.0
27.5°	6674.2	6658.8	6467.3	6294.3	6139.9	6195.5	6312.9	6646.4	6346.8	6248.0	5167.0
30°	7526.6	7508.1	7285.7	7004.7	6661.9	6581.6	6566.1	6859.5	6711.3	6606.3	5429.6
32.5°	8357.4	8342.0	8104.2	7776.8	7304.3	7063.4	6915.1	7097.3	7125.1	7023.2	5716.8
35°	9114.1	9114.1	8910.3	8521.1	7986.8	7622.4	7378.4	7390.7	7600.8	7483.4	6044.2
37.5°	9787.4	9784.3	9562.0	9179.0	8666.3	8249.3	7946.7	7745.9	8054.8	7952.9	6387.0
40°	10321.7	10300.1	10136.4	9802.9	9287.1	8873.2	8567.5	8162.9	8561.3	8468.6	6751.4
42.5°	10710.9	10698.5	10587.3	10297.0	9805.9	9416.8	9206.8	8687.9	9135.7	9043.1	7177.6
45°	10862.2	10886.9	10886.9	10612.0	10222.9	9867.7	9775.1	9265.5	9756.5	9663.9	7634.7
47.5°	10618.2	10683.1	10815.9	10834.4	10491.6	10250.7	10281.6	9846.1	10395.8	10346.4	8135.1
50°	9855.4	9975.8	10266.1	10791.2	10599.7	10544.1	10714.0	10439.1	11081.5	11066.0	8743.5
52.5°	7888.0	8181.4	9086.3	10028.3	10525.6	10680.0	11143.3	11106.2	11964.8	11989.5	9537.2
55°	6050.3	6161.5	7208.5	8811.4	10071.6	10636.7	11430.5	11757.9	12922.2	12953.1	10266.1
57.5°	4892.2	4966.3	5537.7	7208.5	9036.9	10402.0	11655.9	12137.7	13657.3	13737.6	10914.7
60°	3876.0	3984.1	4367.1	5516.0	7588.4	9836.8	11813.5	12560.9	14447.9	14568.4	11689.9
62.5°	2881.6	2934.1	3295.4	4086.1	6007.1	8820.7	11730.1	13021.1	15417.7	15562.9	12622.6
65°	2050.8	2097.1	2353.4	2906.3	4441.2	7446.3	11245.2	13363.9	16634.6	16782.8	13561.5
67.5°	1535.0	1553.5	1698.7	2032.2	2992.7	5784.7	10263.0	13305.2	17524.1	17656.9	13938.3
70°	1213.8	1220.0	1291.0	1470.1	1945.7	4027.4	8542.8	12443.5	17588.9	17706.3	13462.7
72.5°	1006.8	1003.8	1043.9	1130.4	1355.8	2548.0	6328.3	10843.7	16755.0	16835.3	12134.7
75°	830.8	837.0	864.8	914.2	1034.6	1680.1	4101.5	8650.8	14781.5	14695.0	10182.7
77.5°	698.0	694.9	707.3	750.5	837.0	1207.6	2402.8	6251.1	10954.9	10911.6	6683.5
80°	562.1	568.3	586.8	623.9	704.2	920.4	1420.7	3900.8	5877.4	5719.9	3193.5
82.5°	376.8	435.5	472.5	515.8	608.4	679.5	901.8	1982.8	2628.3	2588.2	1448.5
85°	179.1	237.8	352.1	401.5	494.2	426.2	611.5	945.1	1315.7	1300.3	522.0
87.5°	37.1	37.1	188.4	225.5	305.8	182.2	339.7	410.8	636.2	596.1	213.1
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°	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1
2.5°	2952.6	2869.2	2702.4	2569.6	2433.7	2356.5	2260.8	2214.4	2205.2	2180.5	2199.0
5°	3005.1	2841.4	2526.4	2319.5	2180.5	2112.5	2078.6	2066.2	2063.1	2056.9	2056.9
7.5°	3076.1	2826.0	2415.2	2205.2	2115.6	2094.0	2103.3	2121.8	2124.9	2131.1	2128.0
10°	3162.6	2829.1	2353.4	2177.4	2134.1	2137.2	2168.1	2192.8	2205.2	2214.4	2211.4
12.5°	3283.1	2866.1	2344.2	2195.9	2177.4	2189.7	2220.6	2245.3	2257.7	2260.8	2260.8
15°	3440.6	2943.3	2365.8	2236.1	2220.6	2229.9	2248.4	2257.7	2260.8	2257.7	2257.7
17.5°	3613.5	3036.0	2396.7	2260.8	2236.1	2226.8	2220.6	2211.4	2192.8	2180.5	2180.5
20°	3780.3	3119.4	2412.1	2257.7	2214.4	2177.4	2140.3	2094.0	2063.1	2038.4	2038.4
22.5°	3947.1	3196.6	2412.1	2223.7	2155.8	2084.7	2007.5	1933.4	1887.1	1856.2	1856.2
25°	4123.1	3270.7	2393.6	2165.0	2063.1	1961.2	1856.2	1763.5	1717.2	1686.3	1680.1
27.5°	4271.4	3313.9	2344.2	2081.6	1948.8	1819.1	1698.7	1602.9	1569.0	1541.2	1541.2
30°	4428.9	3341.7	2251.5	1973.5	1819.1	1670.9	1547.3	1470.1	1433.1	1392.9	1389.8
32.5°	4604.9	3360.3	2146.5	1859.3	1686.3	1528.8	1423.8	1362.0	1281.7	1238.5	1232.3
35°	4808.8	3385.0	2035.3	1729.6	1553.5	1411.4	1349.7	1247.7	1170.5	1133.5	1130.4
37.5°	5025.0	3403.5	1914.9	1615.3	1433.1	1334.2	1272.5	1152.0	1084.1	1028.5	1022.3
40°	5253.5	3403.5	1791.3	1504.1	1337.3	1300.3	1182.9	1074.8	960.5	932.7	926.5
42.5°	5506.8	3397.3	1667.8	1396.0	1247.7	1223.0	1130.4	1016.1	957.4	932.7	926.5
45°	5775.5	3375.7	1550.4	1272.5	1155.1	1105.7	1034.6	1003.8	979.0	979.0	979.0
47.5°	6081.2	3357.2	1417.6	1161.3	1087.1	1031.6	979.0	960.5	957.4	966.7	976.0
50°	6473.5	3351.0	1306.4	1081.0	1034.6	969.8	963.6	948.2	951.3	951.3	951.3
52.5°	6949.1	3295.4	1201.4	1022.3	982.1	904.9	923.5	938.9	945.1	942.0	938.9
55°	7298.1	3196.6	1111.9	982.1	945.1	880.2	904.9	929.6	935.8	926.5	926.5
57.5°	7613.1	3057.6	1040.8	951.3	920.4	864.8	892.6	917.3	911.1	908.0	904.9
60°	7974.5	2924.8	985.2	935.8	895.7	858.6	883.3	898.7	889.5	883.3	880.2
62.5°	8366.7	2795.1	945.1	935.8	877.1	855.5	874.0	880.2	861.7	855.5	855.5
65°	8548.9	2591.2	901.8	935.8	867.9	849.3	855.5	849.3	830.8	830.8	827.7
67.5°	8249.3	2254.6	846.2	923.5	880.2	840.1	827.7	818.4	796.8	796.8	790.7
70°	7421.6	1853.1	765.9	883.3	883.3	837.0	790.7	769.0	744.3	753.6	741.2
72.5°	6340.7	1470.1	667.1	815.4	864.8	833.9	750.5	716.5	694.9	704.2	685.6
75°	5136.2	1139.7	549.8	707.3	818.4	818.4	710.4	664.0	639.3	639.3	617.7
77.5°	3273.8	843.2	447.8	586.8	735.1	796.8	676.4	605.3	568.3	559.0	543.6
80°	1621.5	593.0	367.5	466.4	627.0	747.4	651.7	537.4	484.9	466.4	438.6
82.5°	861.7	410.8	293.4	364.4	500.3	673.3	620.8	463.3	398.4	370.6	339.7
85°	386.1	253.3	234.7	278.0	379.9	552.8	559.0	379.9	305.8	364.4	268.7
87.5°	142.1	114.3	114.3	142.1	219.3	231.6	395.3	244.0	194.6	132.8	105.0
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)