

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: P399409

Luminaire Tested: **ARCH-L-PA3-140-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399409
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-PA3-140-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18927 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

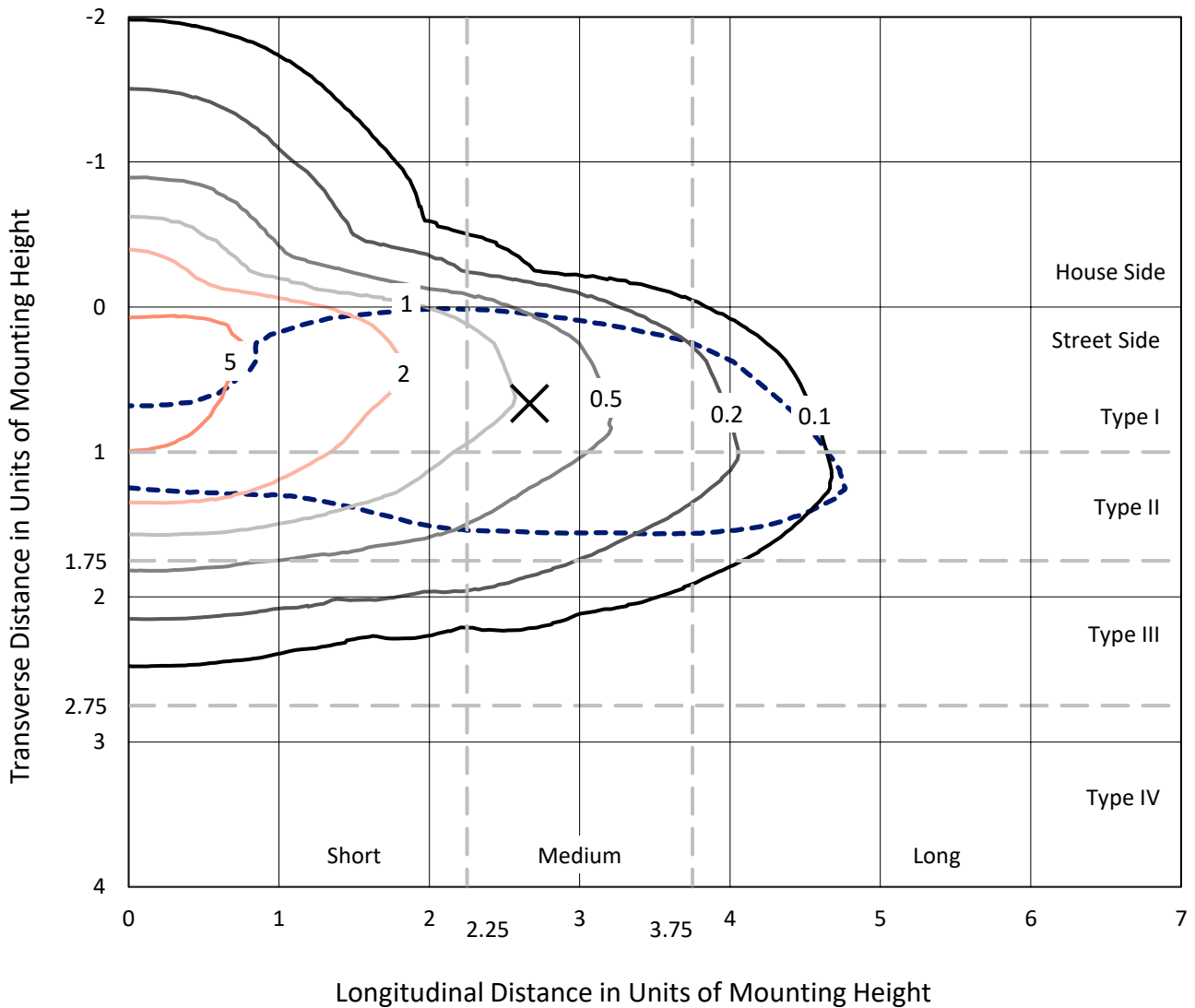
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

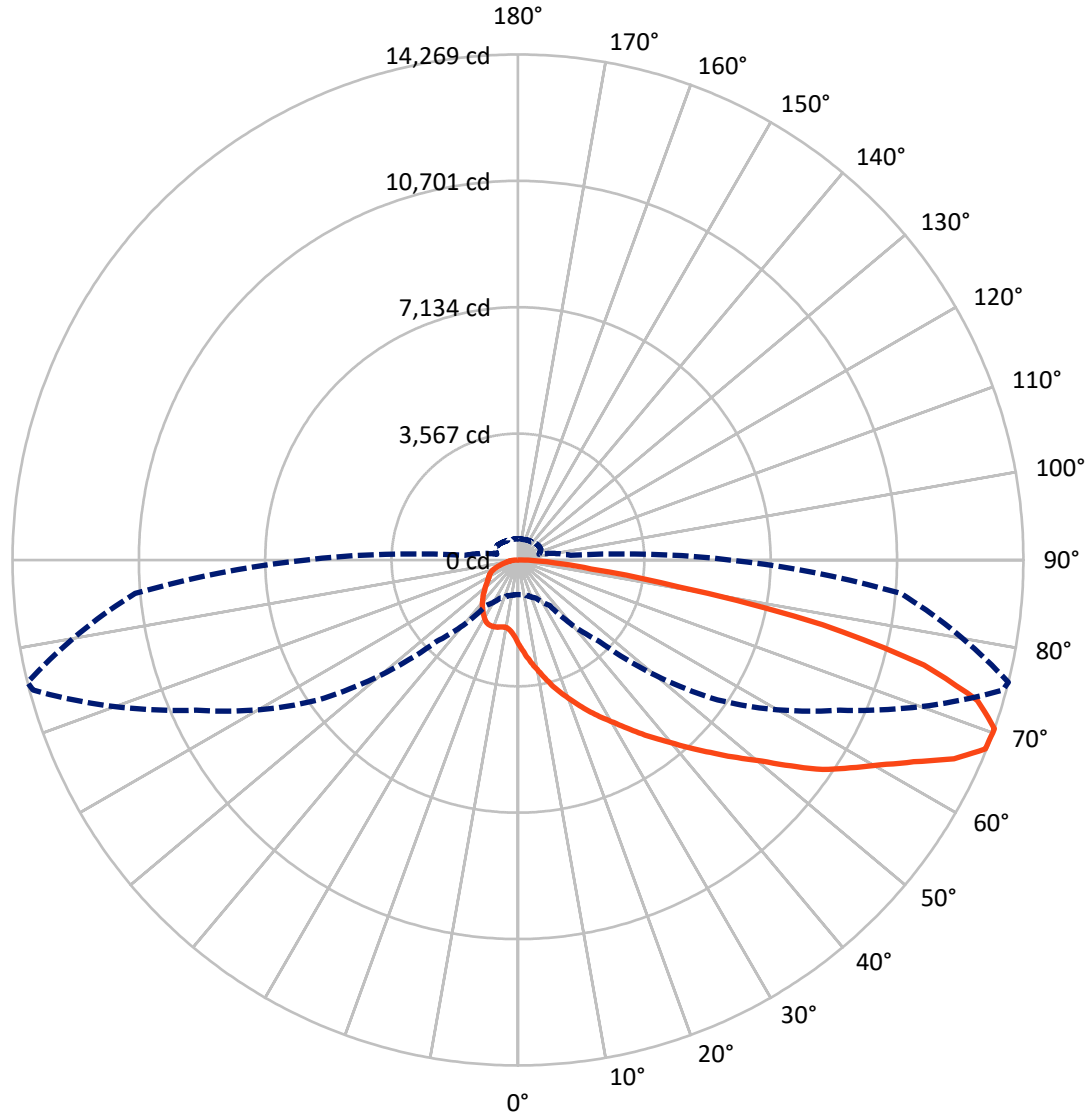
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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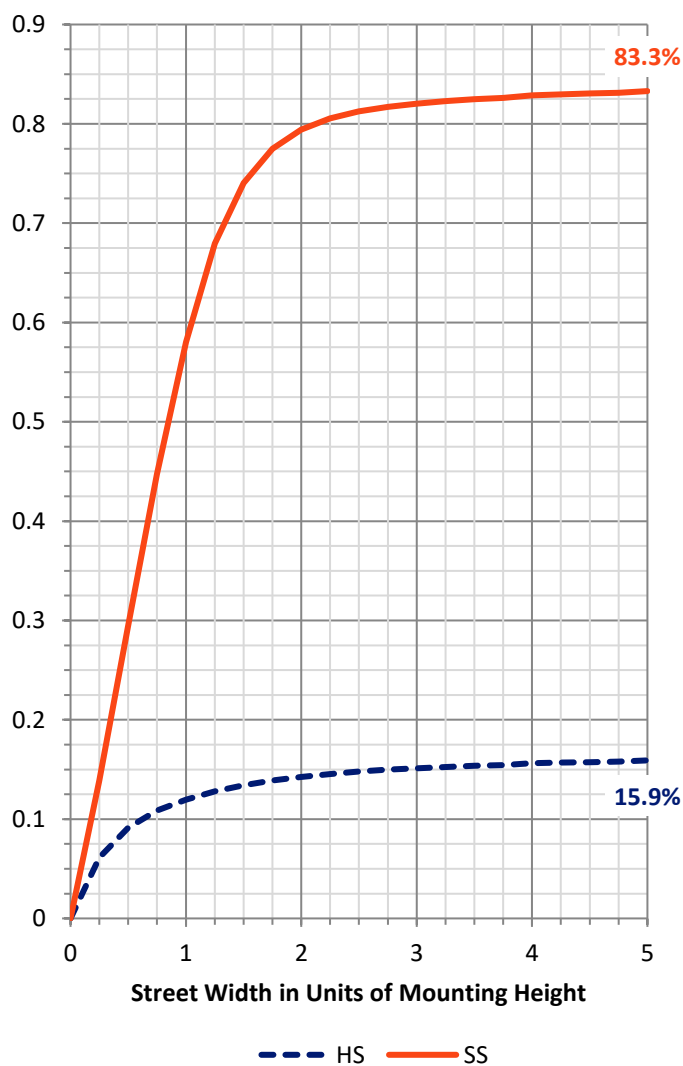
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3090.0	0.0	3090.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	15837.0	0.0	15837.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	18927.0	0.0	18927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.9	1.3
10°-20°	835.8	4.4
20°-30°	1495.4	7.9
30°-40°	2419.1	12.8
40°-50°	3499.6	18.5
50°-60°	4005.5	21.2
60°-70°	3684.6	19.5
70°-80°	2278.5	12.0
80°-90°	462.7	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°	18927.0	100.0
0°-180°	18927.0	100.0

Coefficient of Utilization



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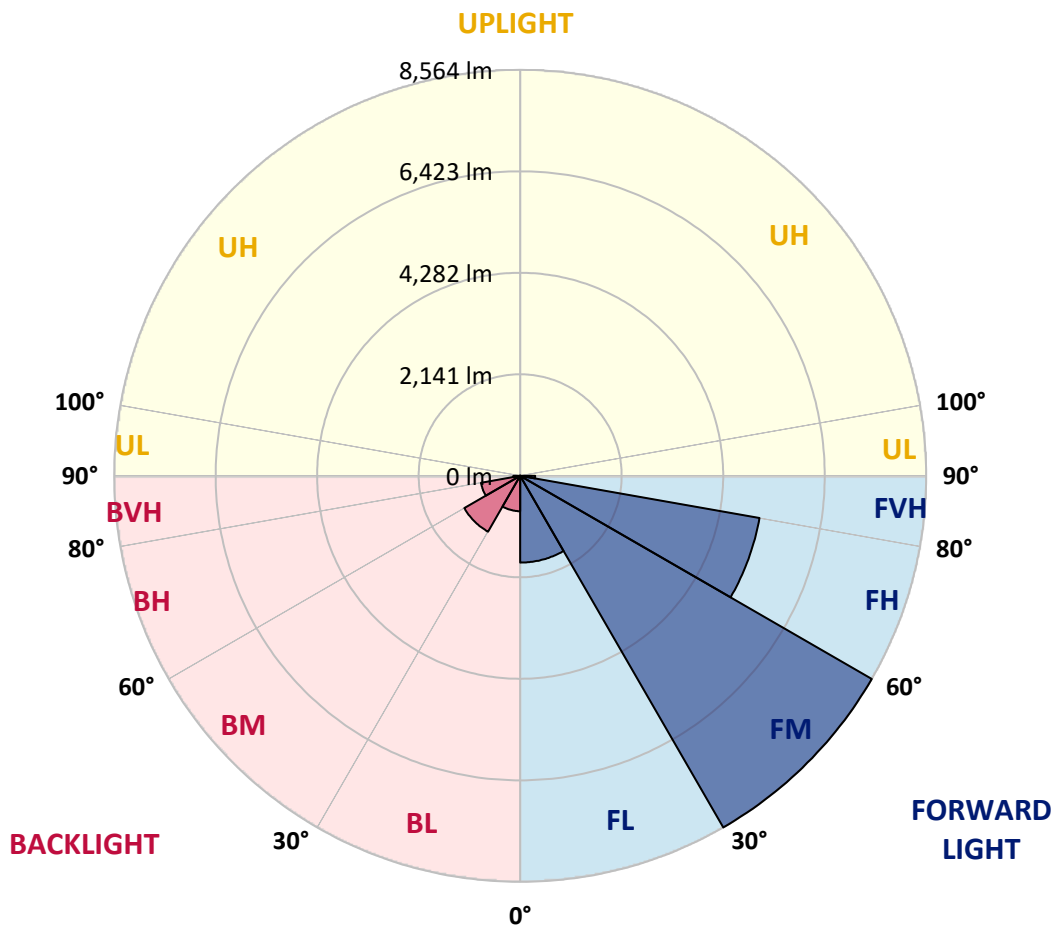
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1830.9	9.7			
FM (30°-60°)	8563.6	45.2			
FH (60°-80°)	5124.9	27.1			G3/7500
FVH (80°-90°)	317.6	1.7			G3/500
BL (0°-30°)	746.3	3.9	B2/1000		
BM (30°-60°)	1360.5	7.2	B2/2500		
BH (60°-80°)	838.1	4.4	B2/1000		G2/1000
BVH (80°-90°)	145.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9
2.5°	3016.5	2994.1	2991.6	2956.8	2924.4	2837.3	2775.1	2665.6	2556.1	2553.6	2444.1
5°	3486.9	3464.5	3452.0	3409.7	3355.0	3240.5	3128.5	2959.3	2772.6	2760.1	2553.6
7.5°	3805.5	3785.6	3760.7	3743.2	3691.0	3588.9	3452.0	3250.4	2994.1	2969.2	2680.5
10°	4019.5	4007.1	4002.1	3989.6	3957.3	3875.1	3743.2	3529.2	3215.6	3188.2	2814.9
12.5°	4111.6	4106.6	4129.0	4163.9	4176.3	4143.9	4017.0	3815.4	3459.5	3429.6	2976.7
15°	4004.6	4009.5	4066.8	4186.3	4313.2	4382.9	4308.2	4111.6	3735.8	3693.5	3165.8
17.5°	3954.8	3962.3	4002.1	4116.6	4295.8	4512.3	4547.1	4392.8	4002.1	3942.3	3364.9
20°	4041.9	4051.9	4081.7	4171.3	4295.8	4527.2	4708.9	4661.6	4263.4	4201.2	3556.6
22.5°	4263.4	4275.9	4273.4	4330.6	4415.2	4574.5	4798.5	4915.5	4537.2	4467.5	3755.7
25°	4736.3	4726.3	4641.7	4614.3	4636.7	4738.8	4918.0	5159.4	4823.4	4753.7	3964.7
27.5°	5378.4	5366.0	5211.7	5072.3	4947.8	4992.6	5087.2	5356.0	5114.6	5035.0	4163.9
30°	6065.3	6050.4	5871.2	5644.7	5368.5	5303.8	5291.3	5527.7	5408.3	5323.7	4375.4
32.5°	6734.8	6722.4	6530.8	6266.9	5886.1	5692.0	5572.5	5719.4	5741.8	5659.7	4606.9
35°	7344.6	7344.6	7180.4	6866.8	6436.2	6142.5	5945.9	5955.8	6125.1	6030.5	4870.7
37.5°	7887.2	7884.7	7705.5	7396.9	6983.7	6647.7	6403.8	6242.1	6490.9	6408.8	5147.0
40°	8317.8	8300.3	8168.4	7899.6	7484.0	7150.5	6904.1	6578.0	6899.1	6824.4	5440.6
42.5°	8631.4	8621.4	8531.8	8297.8	7902.1	7588.5	7419.3	7001.2	7362.0	7287.4	5784.1
45°	8753.3	8773.2	8773.2	8551.7	8238.1	7951.9	7877.2	7466.6	7862.3	7787.6	6152.5
47.5°	8556.7	8609.0	8716.0	8730.9	8454.6	8260.5	8285.4	7934.5	8377.5	8337.7	6555.6
50°	7941.9	8039.0	8273.0	8696.1	8541.8	8497.0	8633.8	8412.3	8930.0	8917.6	7046.0
52.5°	6356.5	6593.0	7322.2	8081.3	8482.0	8606.5	8979.8	8949.9	9641.8	9661.7	7685.6
55°	4875.7	4965.3	5809.0	7100.7	8116.2	8571.6	9211.3	9475.1	10413.4	10438.3	8273.0
57.5°	3942.3	4002.1	4462.5	5809.0	7282.4	8382.5	9392.9	9781.2	11005.7	11070.4	8795.6
60°	3123.5	3210.6	3519.2	4445.1	6115.1	7927.0	9519.9	10122.2	11642.9	11739.9	9420.3
62.5°	2322.1	2364.4	2655.6	3292.8	4840.8	7108.2	9452.7	10493.0	12424.4	12541.3	10172.0
65°	1652.6	1689.9	1896.5	2342.0	3579.0	6000.6	9061.9	10769.3	13405.0	13524.4	10928.6
67.5°	1237.0	1251.9	1368.9	1637.7	2411.7	4661.6	8270.5	10722.0	14121.8	14228.8	11232.2
70°	978.1	983.1	1040.3	1184.7	1568.0	3245.5	6884.2	10027.6	14174.0	14268.6	10848.9
72.5°	811.4	808.9	841.2	910.9	1092.6	2053.3	5099.7	8738.4	13502.0	13566.8	9778.7
75°	669.5	674.5	696.9	736.7	833.8	1353.9	3305.2	6971.3	11911.7	11842.0	8205.8
77.5°	562.5	560.0	569.9	604.8	674.5	973.1	1936.3	5037.4	8828.0	8793.1	5385.9
80°	453.0	457.9	472.9	502.7	567.5	741.7	1144.9	3143.4	4736.3	4609.4	2573.5
82.5°	303.6	350.9	380.8	415.6	490.3	547.5	726.7	1597.8	2118.0	2085.7	1167.3
85°	144.4	191.6	283.7	323.6	398.2	343.5	492.8	761.6	1060.3	1047.8	420.6
87.5°	29.9	29.9	151.8	181.7	246.4	146.8	273.8	331.0	512.7	480.3	171.7
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°	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9
2.5°	2379.3	2312.1	2177.7	2070.7	1961.2	1899.0	1821.8	1784.5	1777.0	1757.1	1772.1
5°	2421.7	2289.7	2035.9	1869.1	1757.1	1702.4	1675.0	1665.0	1662.6	1657.6	1657.6
7.5°	2478.9	2277.3	1946.3	1777.0	1704.9	1687.4	1694.9	1709.8	1712.3	1717.3	1714.8
10°	2548.6	2279.8	1896.5	1754.6	1719.8	1722.3	1747.2	1767.1	1777.0	1784.5	1782.0
12.5°	2645.7	2309.7	1889.0	1769.6	1754.6	1764.6	1789.5	1809.4	1819.4	1821.8	1821.8
15°	2772.6	2371.9	1906.5	1801.9	1789.5	1797.0	1811.9	1819.4	1821.8	1819.4	1819.4
17.5°	2912.0	2446.5	1931.4	1821.8	1801.9	1794.5	1789.5	1782.0	1767.1	1757.1	1757.1
20°	3046.4	2513.7	1943.8	1819.4	1784.5	1754.6	1724.8	1687.4	1662.6	1642.6	1642.6
22.5°	3180.8	2576.0	1943.8	1792.0	1737.2	1680.0	1617.8	1558.0	1520.7	1495.8	1495.8
25°	3322.6	2635.7	1928.9	1744.7	1662.6	1580.4	1495.8	1421.1	1383.8	1358.9	1353.9
27.5°	3442.1	2670.5	1889.0	1677.5	1570.5	1465.9	1368.9	1291.7	1264.3	1241.9	1241.9
30°	3569.0	2692.9	1814.4	1590.4	1465.9	1346.5	1246.9	1184.7	1154.8	1122.5	1120.0
32.5°	3710.9	2707.9	1729.8	1498.3	1358.9	1232.0	1147.4	1097.6	1032.9	998.0	993.1
35°	3875.1	2727.8	1640.2	1393.8	1251.9	1137.4	1087.6	1005.5	943.3	913.4	910.9
37.5°	4049.4	2742.7	1543.1	1301.7	1154.8	1075.2	1025.4	928.3	873.6	828.8	823.8
40°	4233.5	2742.7	1443.5	1212.1	1077.7	1047.8	953.2	866.1	774.0	751.6	746.7
42.5°	4437.6	2737.7	1344.0	1125.0	1005.5	985.6	910.9	818.8	771.5	751.6	746.7
45°	4654.2	2720.3	1249.4	1025.4	930.8	891.0	833.8	808.9	789.0	789.0	789.0
47.5°	4900.6	2705.4	1142.4	935.8	876.1	831.3	789.0	774.0	771.5	779.0	786.5
50°	5216.6	2700.4	1052.8	871.1	833.8	781.5	776.5	764.1	766.6	766.6	766.6
52.5°	5599.9	2655.6	968.2	823.8	791.5	729.2	744.2	756.6	761.6	759.1	756.6
55°	5881.2	2576.0	896.0	791.5	761.6	709.3	729.2	749.1	754.1	746.7	746.7
57.5°	6135.0	2464.0	838.7	766.6	741.7	696.9	719.3	739.2	734.2	731.7	729.2
60°	6426.2	2356.9	793.9	754.1	721.8	691.9	711.8	724.3	716.8	711.8	709.3
62.5°	6742.3	2252.4	761.6	754.1	706.8	689.4	704.3	709.3	694.4	689.4	689.4
65°	6889.2	2088.2	726.7	754.1	699.4	684.4	689.4	684.4	669.5	669.5	667.0
67.5°	6647.7	1816.9	681.9	744.2	709.3	677.0	667.0	659.5	642.1	642.1	637.1
70°	5980.7	1493.3	617.2	711.8	711.8	674.5	637.1	619.7	599.8	607.3	597.3
72.5°	5109.6	1184.7	537.6	657.1	696.9	672.0	604.8	577.4	560.0	567.5	552.5
75°	4139.0	918.4	443.0	569.9	659.5	659.5	572.4	535.1	515.2	515.2	497.8
77.5°	2638.2	679.5	360.9	472.9	592.3	642.1	545.1	487.8	457.9	450.5	438.0
80°	1306.6	477.9	296.2	375.8	505.2	602.3	525.1	433.1	390.8	375.8	353.4
82.5°	694.4	331.0	236.4	293.7	403.2	542.6	500.3	373.3	321.1	298.7	273.8
85°	311.1	204.1	189.2	224.0	306.1	445.5	450.5	306.1	246.4	293.7	216.5
87.5°	114.5	92.1	92.1	114.5	176.7	186.7	318.6	196.6	156.8	107.0	84.6
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)