

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: P399526

Luminaire Tested: **ARCH-L-PA3-150-827-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399526
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-PA3-150-827-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17626 lumens
Efficiency: N/A
Efficacy: 115.2 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

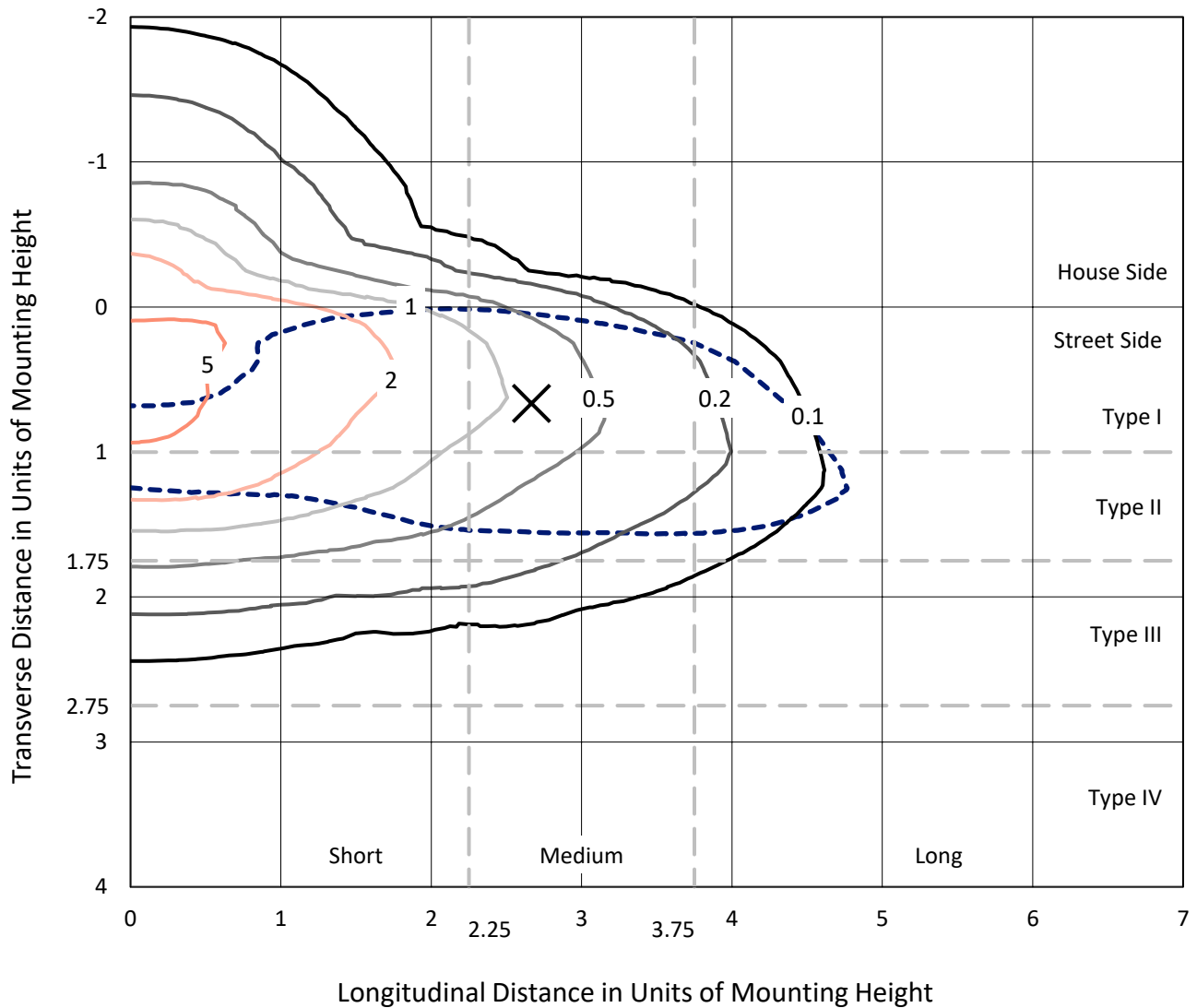
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

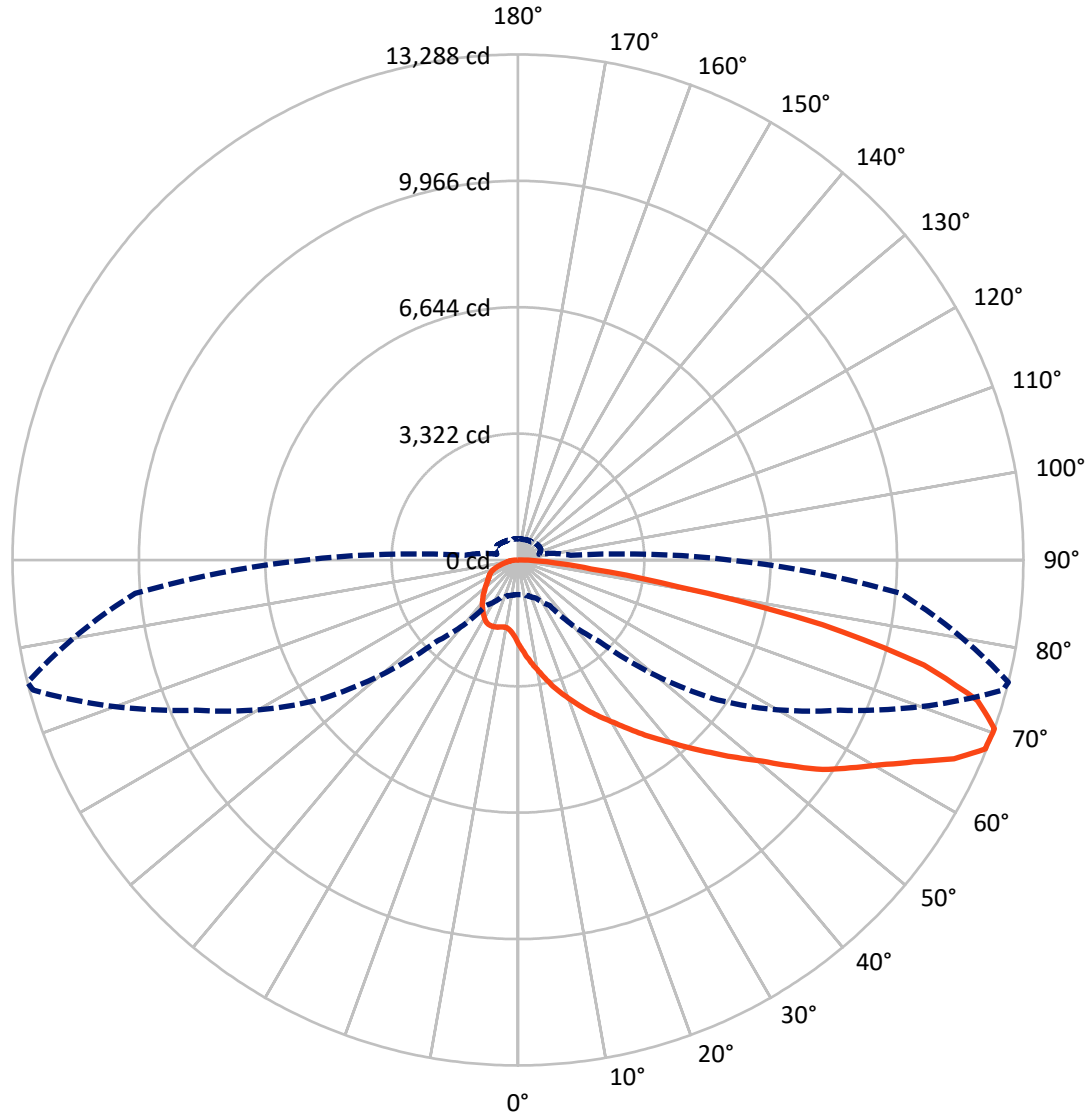
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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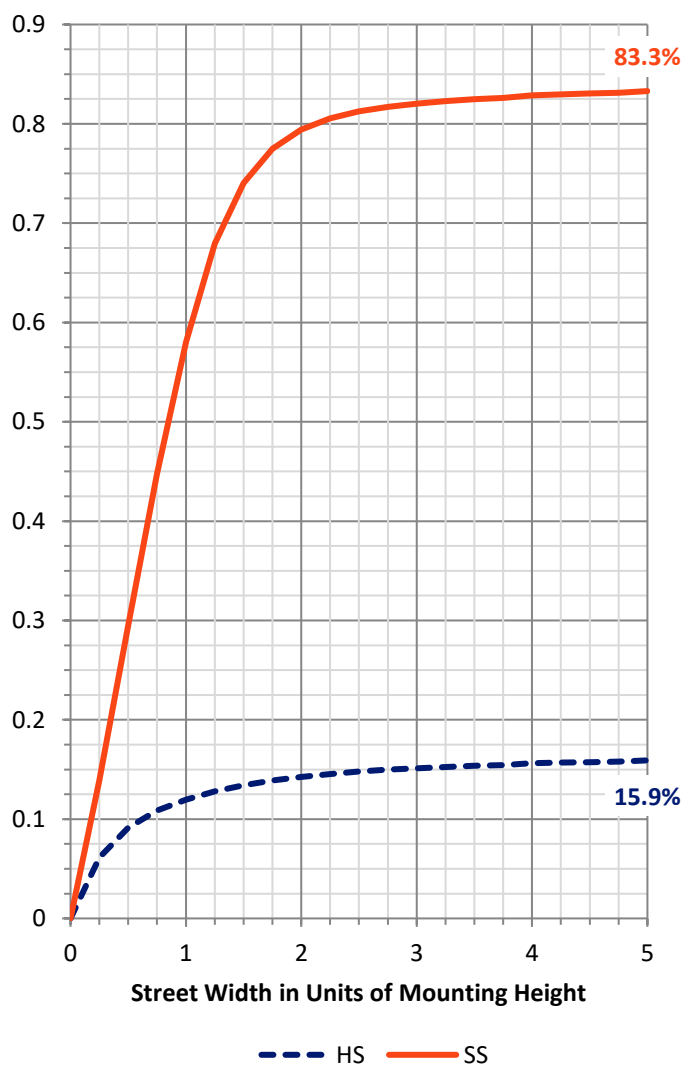
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2877.6	0.0	2877.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	14748.4	0.0	14748.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	17626.0	0.0	17626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.0	1.3
10°-20°	778.4	4.4
20°-30°	1392.6	7.9
30°-40°	2252.8	12.8
40°-50°	3259.0	18.5
50°-60°	3730.1	21.2
60°-70°	3431.3	19.5
70°-80°	2121.9	12.0
80°-90°	430.9	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°	17626.0	100.0
0°-180°	17626.0	100.0

Coefficient of Utilization



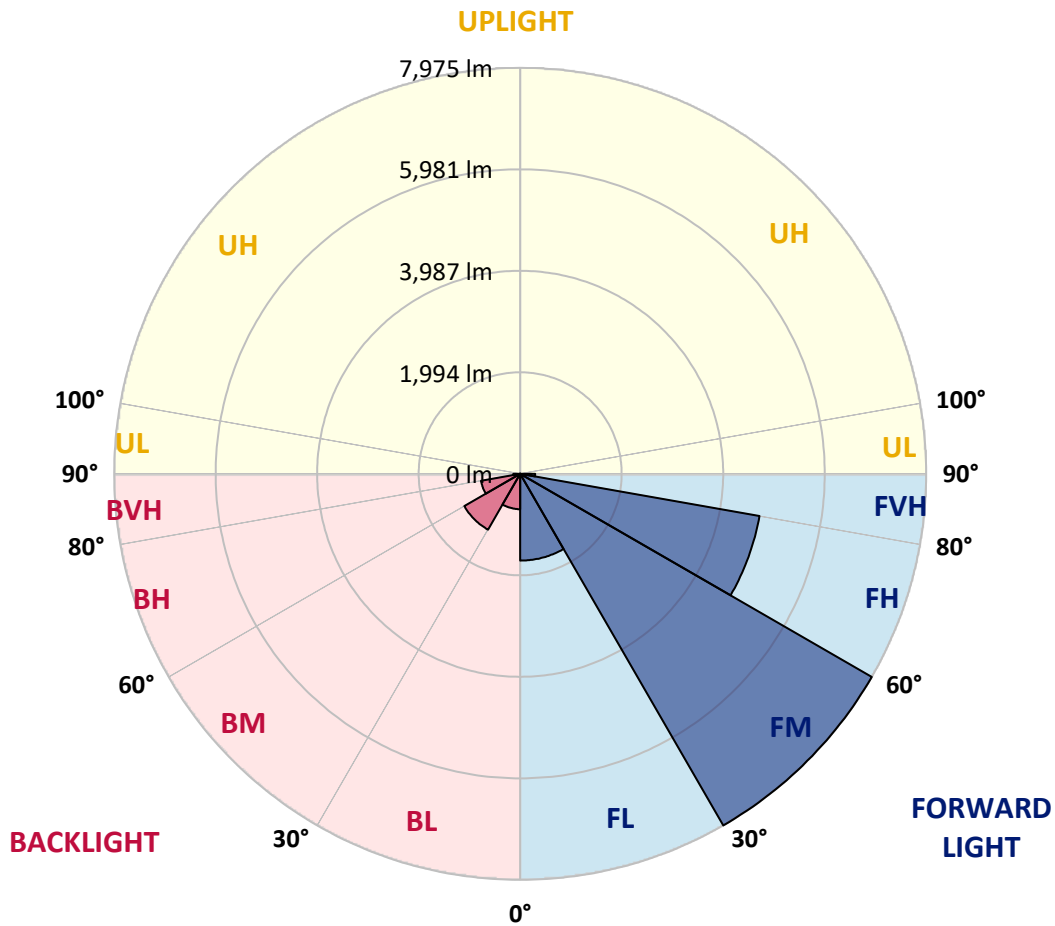
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1705.0	9.7			
FM (30°-60°)	7974.9	45.2			
FH (60°-80°)	4772.6	27.1			G2/5000
FVH (80°-90°)	295.8	1.7			G3/500
BL (0°-30°)	695.0	3.9	B2/1000		
BM (30°-60°)	1267.0	7.2	B2/2500		
BH (60°-80°)	780.5	4.4	B2/1000		G2/1000
BVH (80°-90°)	135.1	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°	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2
2.5°	2809.1	2788.3	2786.0	2753.5	2723.4	2642.3	2584.3	2482.3	2380.4	2378.0	2276.1
5°	3247.2	3226.3	3214.8	3175.4	3124.4	3017.7	2913.4	2755.8	2582.0	2570.4	2378.0
7.5°	3543.9	3525.3	3502.2	3485.9	3437.3	3342.2	3214.8	3027.0	2788.3	2765.1	2496.2
10°	3743.2	3731.6	3727.0	3715.4	3685.3	3608.8	3485.9	3286.6	2994.6	2969.1	2621.4
12.5°	3829.0	3824.3	3845.2	3877.6	3889.2	3859.1	3740.9	3553.2	3221.7	3193.9	2772.1
15°	3729.3	3733.9	3787.2	3898.5	4016.7	4081.6	4012.1	3829.0	3479.0	3439.6	2948.2
17.5°	3682.9	3689.9	3727.0	3833.6	4000.5	4202.1	4234.6	4090.9	3727.0	3671.4	3133.6
20°	3764.1	3773.3	3801.2	3884.6	4000.5	4216.0	4385.2	4341.2	3970.4	3912.4	3312.1
22.5°	3970.4	3981.9	3979.6	4032.9	4111.7	4260.1	4468.7	4577.6	4225.3	4160.4	3497.5
25°	4410.7	4401.5	4322.7	4297.2	4318.0	4413.0	4579.9	4804.8	4491.9	4427.0	3692.2
27.5°	5008.7	4997.1	4853.4	4723.6	4607.7	4649.5	4737.5	4987.9	4763.0	4688.9	3877.6
30°	5648.4	5634.5	5467.6	5256.7	4999.4	4939.2	4927.6	5147.8	5036.5	4957.7	4074.7
32.5°	6271.9	6260.3	6081.8	5836.2	5481.5	5300.8	5189.5	5326.3	5347.1	5270.6	4290.2
35°	6839.8	6839.8	6686.8	6394.7	5993.8	5720.3	5537.2	5546.4	5704.1	5616.0	4535.9
37.5°	7345.0	7342.7	7175.8	6888.4	6503.7	6190.8	5963.6	5813.0	6044.8	5968.3	4793.2
40°	7746.0	7729.8	7606.9	7356.6	6969.6	6659.0	6429.5	6125.9	6424.9	6355.3	5066.7
42.5°	8038.1	8028.8	7945.3	7727.5	7358.9	7066.9	6909.3	6519.9	6856.0	6786.5	5386.5
45°	8151.6	8170.2	8170.2	7963.9	7671.8	7405.3	7335.8	6953.3	7321.9	7252.3	5729.5
47.5°	7968.5	8017.2	8116.9	8130.8	7873.5	7692.7	7715.9	7389.1	7801.6	7764.6	6105.0
50°	7396.0	7486.4	7704.3	8098.3	7954.6	7912.9	8040.4	7834.1	8316.2	8304.6	6561.6
52.5°	5919.6	6139.8	6818.9	7525.8	7899.0	8014.9	8362.5	8334.7	8979.1	8997.6	7157.3
55°	4540.5	4624.0	5409.7	6612.6	7558.3	7982.4	8578.1	8823.8	9697.6	9720.8	7704.3
57.5°	3671.4	3727.0	4155.8	5409.7	6781.8	7806.3	8747.3	9108.9	10249.2	10309.5	8191.0
60°	2908.8	2989.9	3277.3	4139.6	5694.8	7382.1	8865.5	9426.4	10842.6	10933.0	8772.8
62.5°	2162.5	2201.9	2473.1	3066.4	4508.1	6619.6	8802.9	9771.8	11570.3	11679.3	9472.8
65°	1539.0	1573.8	1766.1	2181.0	3333.0	5588.2	8439.0	10029.0	12483.6	12594.8	10177.4
67.5°	1151.9	1165.8	1274.8	1525.1	2245.9	4341.2	7702.0	9985.0	13151.1	13250.7	10460.1
70°	910.9	915.5	968.8	1103.3	1460.2	3022.4	6411.0	9338.3	13199.7	13287.8	10103.2
72.5°	755.6	753.3	783.4	848.3	1017.5	1912.2	4749.1	8137.7	12573.9	12634.2	9106.5
75°	623.5	628.1	649.0	686.1	776.5	1260.9	3078.0	6492.1	11092.9	11028.0	7641.7
77.5°	523.8	521.5	530.8	563.2	628.1	906.3	1803.2	4691.2	8221.2	8188.7	5015.7
80°	421.8	426.5	440.4	468.2	528.5	690.7	1066.2	2927.4	4410.7	4292.5	2396.6
82.5°	282.8	326.8	354.6	387.1	456.6	509.9	676.8	1488.0	1972.4	1942.3	1087.0
85°	134.4	178.5	264.2	301.3	370.8	319.9	458.9	709.2	987.4	975.8	391.7
87.5°	27.8	27.8	141.4	169.2	229.5	136.7	255.0	308.3	477.5	447.3	159.9
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°	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2
2.5°	2215.8	2153.2	2028.1	1928.4	1826.4	1768.5	1696.6	1661.8	1654.9	1636.4	1650.3
5°	2255.2	2132.4	1895.9	1740.7	1636.4	1585.4	1559.9	1550.6	1548.3	1543.6	1543.6
7.5°	2308.5	2120.8	1812.5	1654.9	1587.7	1571.5	1578.4	1592.3	1594.6	1599.3	1596.9
10°	2373.4	2123.1	1766.1	1634.0	1601.6	1603.9	1627.1	1645.6	1654.9	1661.8	1659.5
12.5°	2463.8	2150.9	1759.2	1647.9	1634.0	1643.3	1666.5	1685.0	1694.3	1696.6	1696.6
15°	2582.0	2208.8	1775.4	1678.1	1666.5	1673.4	1687.3	1694.3	1696.6	1694.3	1694.3
17.5°	2711.8	2278.4	1798.6	1696.6	1678.1	1671.1	1666.5	1659.5	1645.6	1636.4	1636.4
20°	2837.0	2341.0	1810.2	1694.3	1661.8	1634.0	1606.2	1571.5	1548.3	1529.7	1529.7
22.5°	2962.1	2398.9	1810.2	1668.8	1617.8	1564.5	1506.6	1450.9	1416.2	1393.0	1393.0
25°	3094.2	2454.5	1796.3	1624.8	1548.3	1471.8	1393.0	1323.5	1288.7	1265.5	1260.9
27.5°	3205.5	2487.0	1759.2	1562.2	1462.5	1365.2	1274.8	1202.9	1177.4	1156.6	1156.6
30°	3323.7	2507.8	1689.7	1481.1	1365.2	1253.9	1161.2	1103.3	1075.4	1045.3	1043.0
32.5°	3455.8	2521.7	1610.9	1395.3	1265.5	1147.3	1068.5	1022.1	961.9	929.4	924.8
35°	3608.8	2540.3	1527.4	1298.0	1165.8	1059.2	1012.9	936.4	878.4	850.6	848.3
37.5°	3771.0	2554.2	1437.0	1212.2	1075.4	1001.3	954.9	864.5	813.5	771.8	767.2
40°	3942.5	2554.2	1344.3	1128.8	1003.6	975.8	887.7	806.6	720.8	700.0	695.3
42.5°	4132.6	2549.6	1251.6	1047.6	936.4	917.8	848.3	762.5	718.5	700.0	695.3
45°	4334.2	2533.3	1163.5	954.9	866.8	829.8	776.5	753.3	734.7	734.7	734.7
47.5°	4563.7	2519.4	1063.9	871.5	815.9	774.1	734.7	720.8	718.5	725.5	732.4
50°	4858.1	2514.8	980.4	811.2	776.5	727.8	723.1	711.6	713.9	713.9	713.9
52.5°	5215.0	2473.1	901.6	767.2	737.1	679.1	693.0	704.6	709.2	706.9	704.6
55°	5476.9	2398.9	834.4	737.1	709.2	660.6	679.1	697.7	702.3	695.3	695.3
57.5°	5713.3	2294.6	781.1	713.9	690.7	649.0	669.8	688.4	683.7	681.4	679.1
60°	5984.5	2194.9	739.4	702.3	672.2	644.3	662.9	674.5	667.5	662.9	660.6
62.5°	6278.9	2097.6	709.2	702.3	658.2	642.0	655.9	660.6	646.7	642.0	642.0
65°	6415.6	1944.6	676.8	702.3	651.3	637.4	642.0	637.4	623.5	623.5	621.2
67.5°	6190.8	1692.0	635.1	693.0	660.6	630.4	621.2	614.2	598.0	598.0	593.4
70°	5569.6	1390.7	574.8	662.9	662.9	628.1	593.4	577.1	558.6	565.5	556.3
72.5°	4758.4	1103.3	500.6	611.9	649.0	625.8	563.2	537.7	521.5	528.5	514.5
75°	3854.5	855.3	412.6	530.8	614.2	614.2	533.1	498.3	479.8	479.8	463.6
77.5°	2456.8	632.8	336.1	440.4	551.6	598.0	507.6	454.3	426.5	419.5	407.9
80°	1216.8	445.0	275.8	350.0	470.5	560.9	489.1	403.3	363.9	350.0	329.1
82.5°	646.7	308.3	220.2	273.5	375.5	505.3	465.9	347.7	299.0	278.1	255.0
85°	289.7	190.1	176.2	208.6	285.1	414.9	419.5	285.1	229.5	273.5	201.6
87.5°	106.6	85.8	85.8	106.6	164.6	173.8	296.7	183.1	146.0	99.7	78.8
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)