

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: P399715

Luminaire Tested: **ARCH-L-PA3-180-740-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399715
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-PA3-180-740-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26930 lumens
Efficiency: N/A
Efficacy: 148.8 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

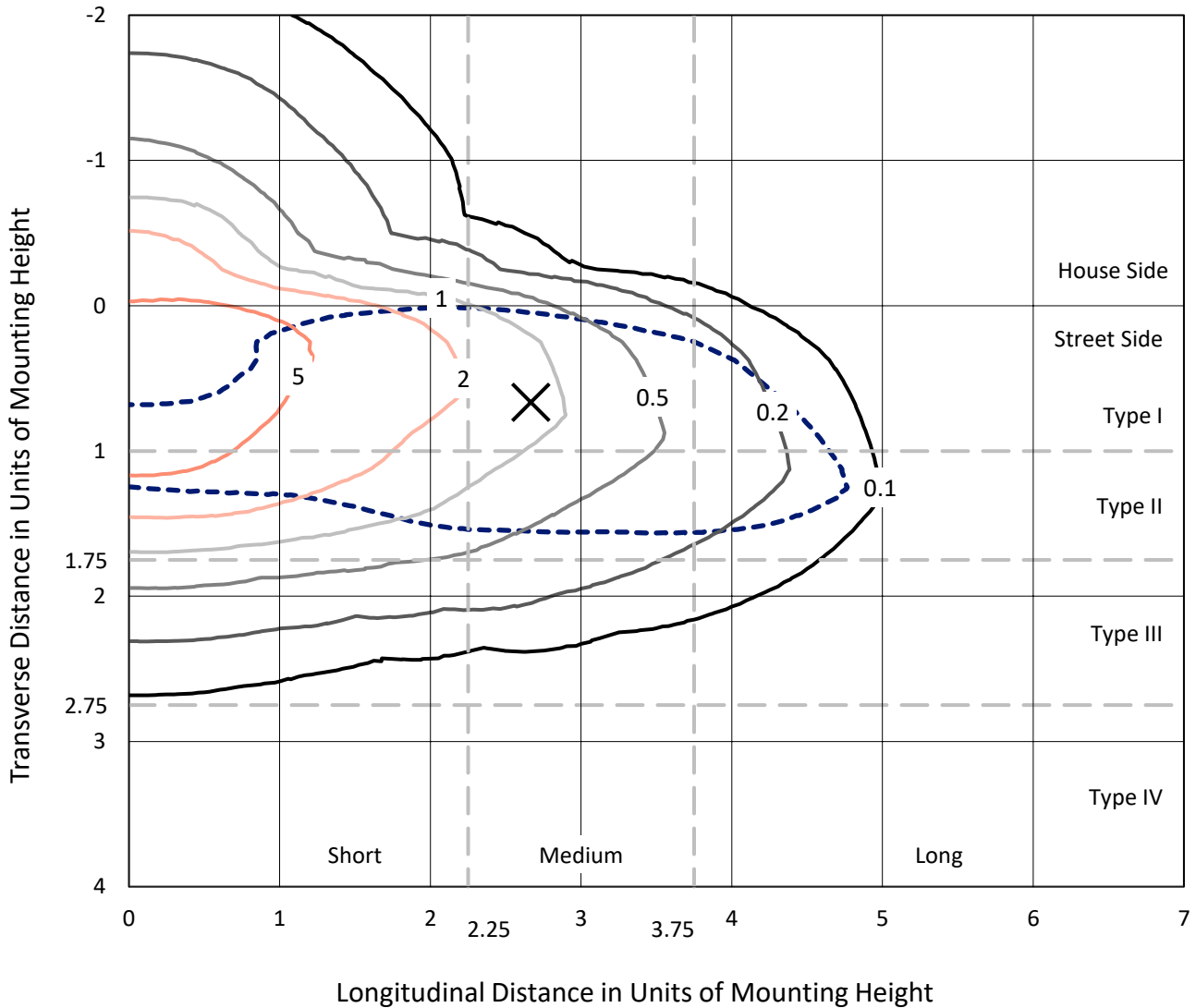
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

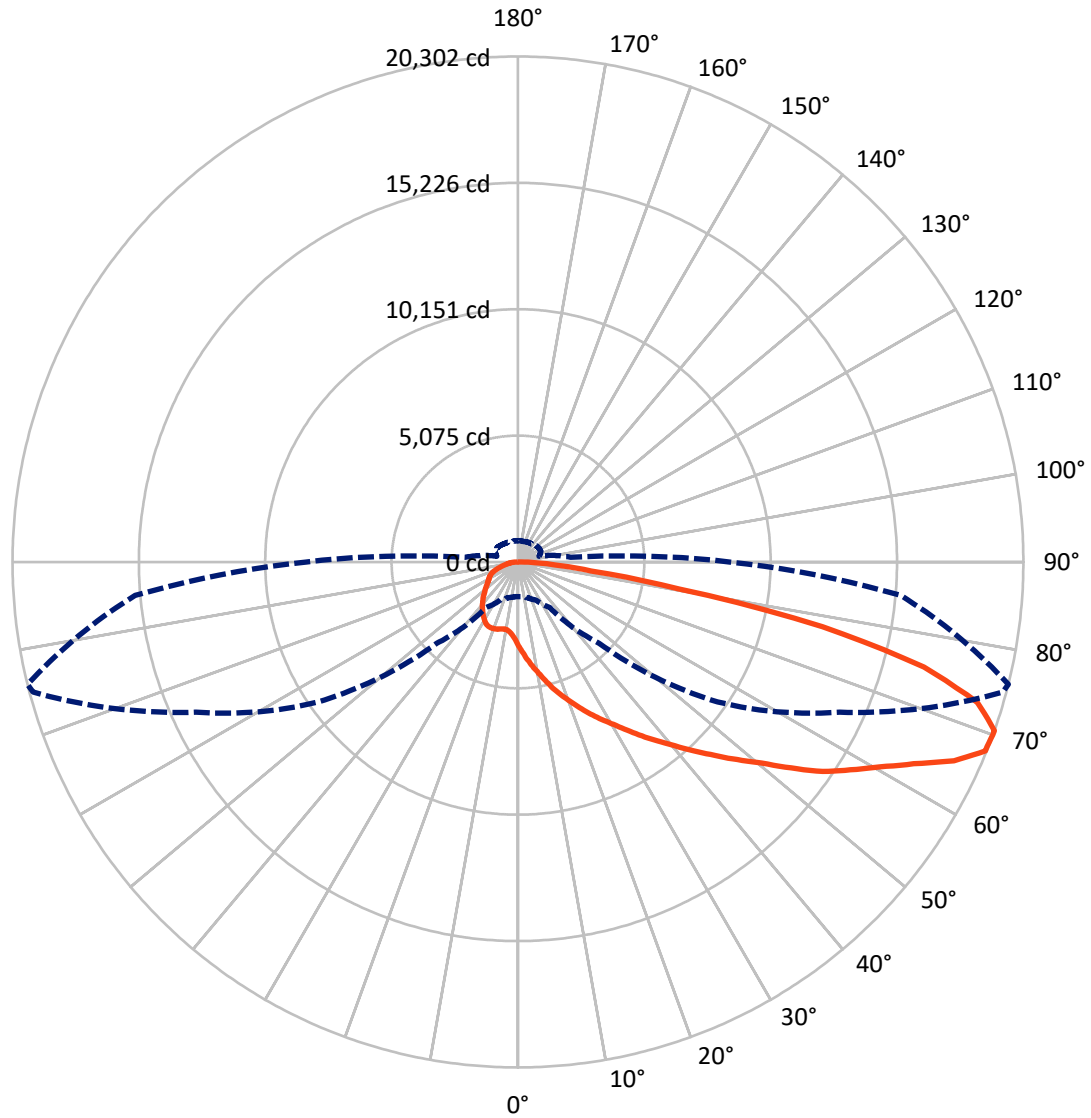
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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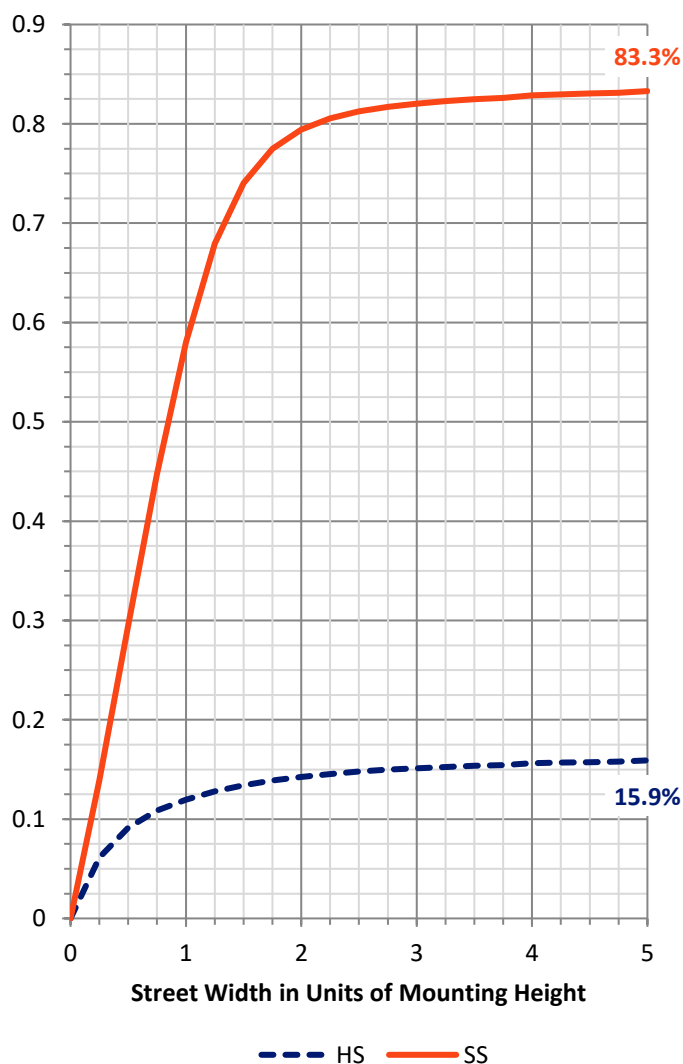
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4396.6	0.0	4396.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	22533.4	0.0	22533.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	26930.0	0.0	26930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	1.3
10°-20°	1189.3	4.4
20°-30°	2127.8	7.9
30°-40°	3441.9	12.8
40°-50°	4979.3	18.5
50°-60°	5699.1	21.2
60°-70°	5242.5	19.5
70°-80°	3241.9	12.0
80°-90°	658.3	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°	26930.0	100.0
0°-180°	26930.0	100.0

Coefficient of Utilization



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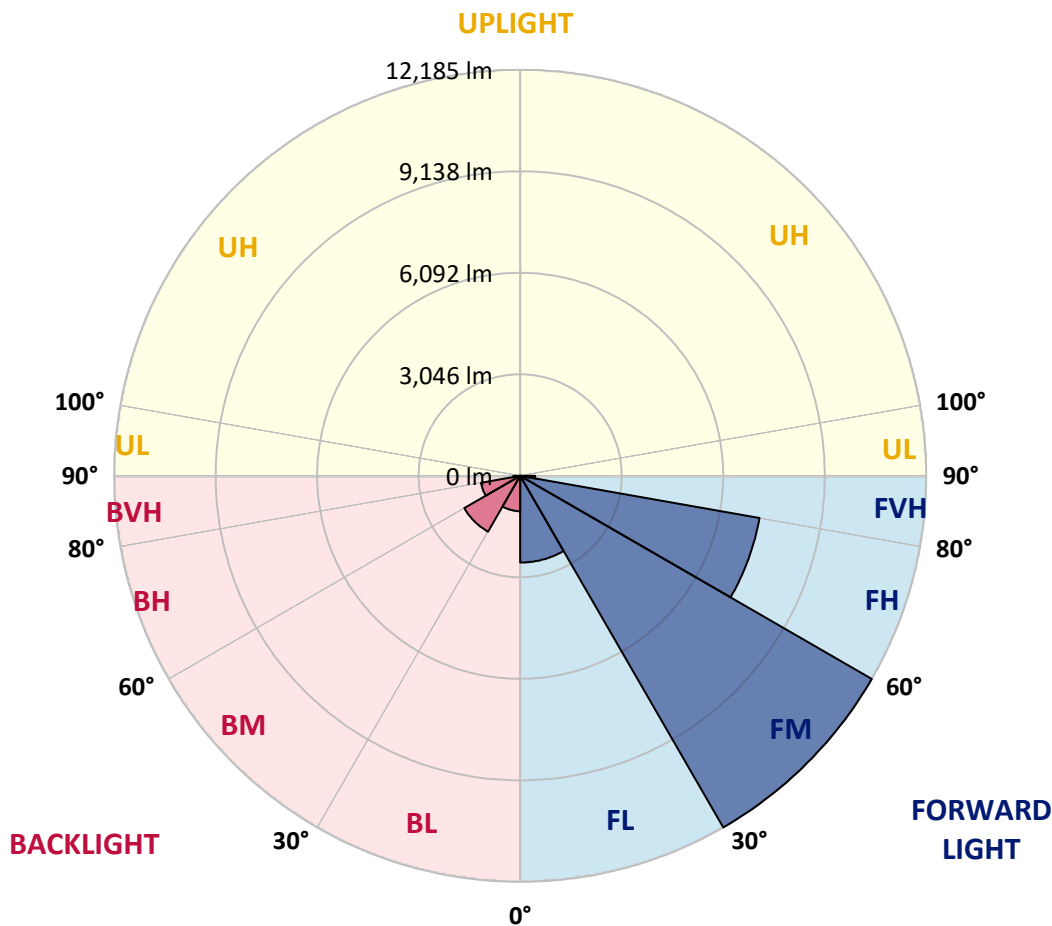
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2605.0	9.7			
FM (30°-60°)	12184.5	45.2			
FH (60°-80°)	7291.9	27.1			G3/7500
FVH (80°-90°)	451.9	1.7			G3/500
BL (0°-30°)	1061.9	3.9	B3/2500		
BM (30°-60°)	1935.8	7.2	B2/2500		
BH (60°-80°)	1192.5	4.4	B3/2500		G3/2500
BVH (80°-90°)	206.4	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°	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7
2.5°	4292.0	4260.1	4256.6	4207.0	4160.9	4037.0	3948.5	3792.7	3636.8	3633.3	3477.5
5°	4961.3	4929.4	4911.7	4851.5	4773.6	4610.7	4451.3	4210.5	3944.9	3927.2	3633.3
7.5°	5414.5	5386.2	5350.8	5326.0	5251.6	5106.5	4911.7	4624.8	4260.1	4224.7	3813.9
10°	5719.1	5701.4	5694.3	5676.6	5630.6	5513.7	5326.0	5021.5	4575.3	4536.3	4005.1
12.5°	5850.1	5843.0	5874.9	5924.5	5942.2	5896.2	5715.5	5428.7	4922.3	4879.8	4235.3
15°	5697.8	5704.9	5786.4	5956.4	6137.0	6236.1	6129.9	5850.1	5315.4	5255.2	4504.4
17.5°	5627.0	5637.6	5694.3	5857.2	6112.2	6420.3	6469.8	6250.3	5694.3	5609.3	4787.7
20°	5751.0	5765.1	5807.6	5935.1	6112.2	6441.5	6700.0	6632.7	6066.1	5977.6	5060.4
22.5°	6066.1	6083.8	6080.3	6161.7	6282.1	6508.8	6827.5	6993.9	6455.7	6356.5	5343.7
25°	6739.0	6724.8	6604.4	6565.4	6597.3	6742.5	6997.5	7341.0	6862.9	6763.8	5641.2
27.5°	7652.6	7634.9	7415.3	7217.0	7040.0	7103.7	7238.3	7620.7	7277.2	7163.9	5924.5
30°	8630.0	8608.7	8353.8	8031.5	7638.4	7546.4	7528.7	7865.1	7695.1	7574.7	6225.5
32.5°	9582.6	9564.9	9292.2	8916.8	8375.0	8098.8	7928.8	8137.8	8169.6	8052.8	6554.8
35°	10450.2	10450.2	10216.5	9770.3	9157.6	8739.8	8460.0	8474.2	8715.0	8580.4	6930.2
37.5°	11222.2	11218.6	10963.7	10524.5	9936.7	9458.6	9111.6	8881.4	9235.5	9118.7	7323.3
40°	11834.8	11810.0	11622.3	11239.9	10648.5	10174.0	9823.4	9359.5	9816.3	9710.1	7741.1
42.5°	12281.0	12266.8	12139.3	11806.5	11243.4	10797.2	10556.4	9961.5	10475.0	10368.7	8229.8
45°	12454.5	12482.8	12482.8	12167.7	11721.5	11314.2	11208.0	10623.7	11186.8	11080.5	8753.9
47.5°	12174.8	12249.1	12401.4	12422.6	12029.6	11753.3	11788.8	11289.4	11919.8	11863.1	9327.6
50°	11300.1	11438.2	11771.1	12373.1	12153.5	12089.8	12284.5	11969.4	12705.9	12688.2	10025.2
52.5°	9044.3	9380.7	10418.3	11498.4	12068.5	12245.6	12776.8	12734.3	13718.7	13747.1	10935.3
55°	6937.3	7064.8	8265.2	10103.1	11548.0	12196.0	13106.1	13481.5	14816.5	14851.9	11771.1
57.5°	5609.3	5694.3	6349.4	8265.2	10361.6	11926.9	13364.6	13917.0	15659.3	15751.4	12514.7
60°	4444.2	4568.2	5007.3	6324.6	8700.8	11278.8	13545.2	14402.2	16565.9	16704.0	13403.6
62.5°	3304.0	3364.2	3778.5	4685.1	6887.7	10113.8	13449.6	14929.8	17677.8	17844.3	14473.0
65°	2351.4	2404.5	2698.4	3332.3	5092.3	8537.9	12893.6	15322.9	19073.1	19243.1	15549.6
67.5°	1760.0	1781.2	1947.7	2330.1	3431.5	6632.7	11767.5	15255.6	20093.0	20245.2	15981.6
70°	1391.7	1398.8	1480.2	1685.6	2231.0	4617.8	9795.0	14267.6	20167.3	20301.9	15436.2
72.5°	1154.4	1150.9	1196.9	1296.1	1554.6	2921.5	7256.0	12433.3	19211.2	19303.3	13913.5
75°	952.6	959.7	991.5	1048.2	1186.3	1926.4	4702.8	9919.0	16948.3	16849.2	11675.4
77.5°	800.3	796.8	810.9	860.5	959.7	1384.6	2755.1	7167.5	12560.8	12511.2	7663.2
80°	644.5	651.6	672.8	715.3	807.4	1055.3	1629.0	4472.6	6739.0	6558.4	3661.6
82.5°	432.0	499.3	541.8	591.4	697.6	779.1	1034.0	2273.5	3013.6	2967.6	1660.8
85°	205.4	272.7	403.7	460.4	566.6	488.7	701.2	1083.6	1508.6	1490.9	598.5
87.5°	42.5	42.5	216.0	258.5	350.6	208.9	389.5	471.0	729.5	683.5	244.3
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°	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7
2.5°	3385.4	3289.8	3098.6	2946.3	2790.5	2702.0	2592.2	2539.1	2528.4	2500.1	2521.4
5°	3445.6	3257.9	2896.7	2659.5	2500.1	2422.2	2383.2	2369.1	2365.5	2358.5	2358.5
7.5°	3527.1	3240.2	2769.2	2528.4	2425.7	2401.0	2411.6	2432.8	2436.4	2443.5	2439.9
10°	3626.2	3243.8	2698.4	2496.6	2447.0	2450.5	2485.9	2514.3	2528.4	2539.1	2535.5
12.5°	3764.3	3286.3	2687.8	2517.8	2496.6	2510.7	2546.1	2574.5	2588.6	2592.2	2592.2
15°	3944.9	3374.8	2712.6	2563.9	2546.1	2556.8	2578.0	2588.6	2592.2	2588.6	2588.6
17.5°	4143.2	3481.0	2748.0	2592.2	2563.9	2553.2	2546.1	2535.5	2514.3	2500.1	2500.1
20°	4334.5	3576.6	2765.7	2588.6	2539.1	2496.6	2454.1	2401.0	2365.5	2337.2	2337.2
22.5°	4525.7	3665.2	2765.7	2549.7	2471.8	2390.3	2301.8	2216.8	2163.7	2128.3	2128.3
25°	4727.5	3750.2	2744.5	2482.4	2365.5	2248.7	2128.3	2022.0	1968.9	1933.5	1926.4
27.5°	4897.5	3799.7	2687.8	2386.8	2234.5	2085.8	1947.7	1837.9	1798.9	1767.1	1767.1
30°	5078.1	3831.6	2581.6	2262.8	2085.8	1915.8	1774.2	1685.6	1643.1	1597.1	1593.6
32.5°	5280.0	3852.9	2461.2	2131.8	1933.5	1752.9	1632.5	1561.7	1469.6	1420.0	1413.0
35°	5513.7	3881.2	2333.7	1983.1	1781.2	1618.3	1547.5	1430.7	1342.1	1299.6	1296.1
37.5°	5761.6	3902.4	2195.6	1852.1	1643.1	1529.8	1459.0	1320.9	1243.0	1179.2	1172.1
40°	6023.6	3902.4	2053.9	1724.6	1533.4	1490.9	1356.3	1232.3	1101.3	1069.5	1062.4
42.5°	6314.0	3895.4	1912.3	1600.6	1430.7	1402.3	1296.1	1165.1	1097.8	1069.5	1062.4
45°	6622.1	3870.6	1777.7	1459.0	1324.4	1267.8	1186.3	1150.9	1122.6	1122.6	1122.6
47.5°	6972.7	3849.3	1625.4	1331.5	1246.5	1182.8	1122.6	1101.3	1097.8	1108.4	1119.0
50°	7422.4	3842.2	1497.9	1239.4	1186.3	1111.9	1104.9	1087.2	1090.7	1090.7	1090.7
52.5°	7967.8	3778.5	1377.5	1172.1	1126.1	1037.6	1058.8	1076.5	1083.6	1080.1	1076.5
55°	8367.9	3665.2	1274.8	1126.1	1083.6	1009.3	1037.6	1065.9	1073.0	1062.4	1062.4
57.5°	8729.1	3505.8	1193.4	1090.7	1055.3	991.5	1023.4	1051.7	1044.7	1041.1	1037.6
60°	9143.5	3353.5	1129.7	1073.0	1027.0	984.5	1012.8	1030.5	1019.9	1012.8	1009.3
62.5°	9593.2	3204.8	1083.6	1073.0	1005.7	980.9	1002.2	1009.3	988.0	980.9	980.9
65°	9802.1	2971.1	1034.0	1073.0	995.1	973.8	980.9	973.8	952.6	952.6	949.1
67.5°	9458.6	2585.1	970.3	1058.8	1009.3	963.2	949.1	938.4	913.6	913.6	906.6
70°	8509.6	2124.7	878.2	1012.8	1012.8	959.7	906.6	881.8	853.4	864.1	849.9
72.5°	7270.1	1685.6	764.9	934.9	991.5	956.1	860.5	821.6	796.8	807.4	786.2
75°	5889.1	1306.7	630.3	810.9	938.4	938.4	814.5	761.4	733.0	733.0	708.2
77.5°	3753.7	966.8	513.5	672.8	842.8	913.6	775.5	694.1	651.6	641.0	623.3
80°	1859.1	679.9	421.4	534.7	718.9	857.0	747.2	616.2	556.0	534.7	502.9
82.5°	988.0	471.0	336.4	417.9	573.7	772.0	711.8	531.2	456.8	424.9	389.5
85°	442.7	290.4	269.1	318.7	435.6	633.9	641.0	435.6	350.6	417.9	308.1
87.5°	162.9	131.0	131.0	162.9	251.4	265.6	453.3	279.8	223.1	152.3	120.4
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)