

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: P399724

Luminaire Tested: **ARCH-L-PA3-180-750-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399724
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-PA3-180-750-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 26929 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

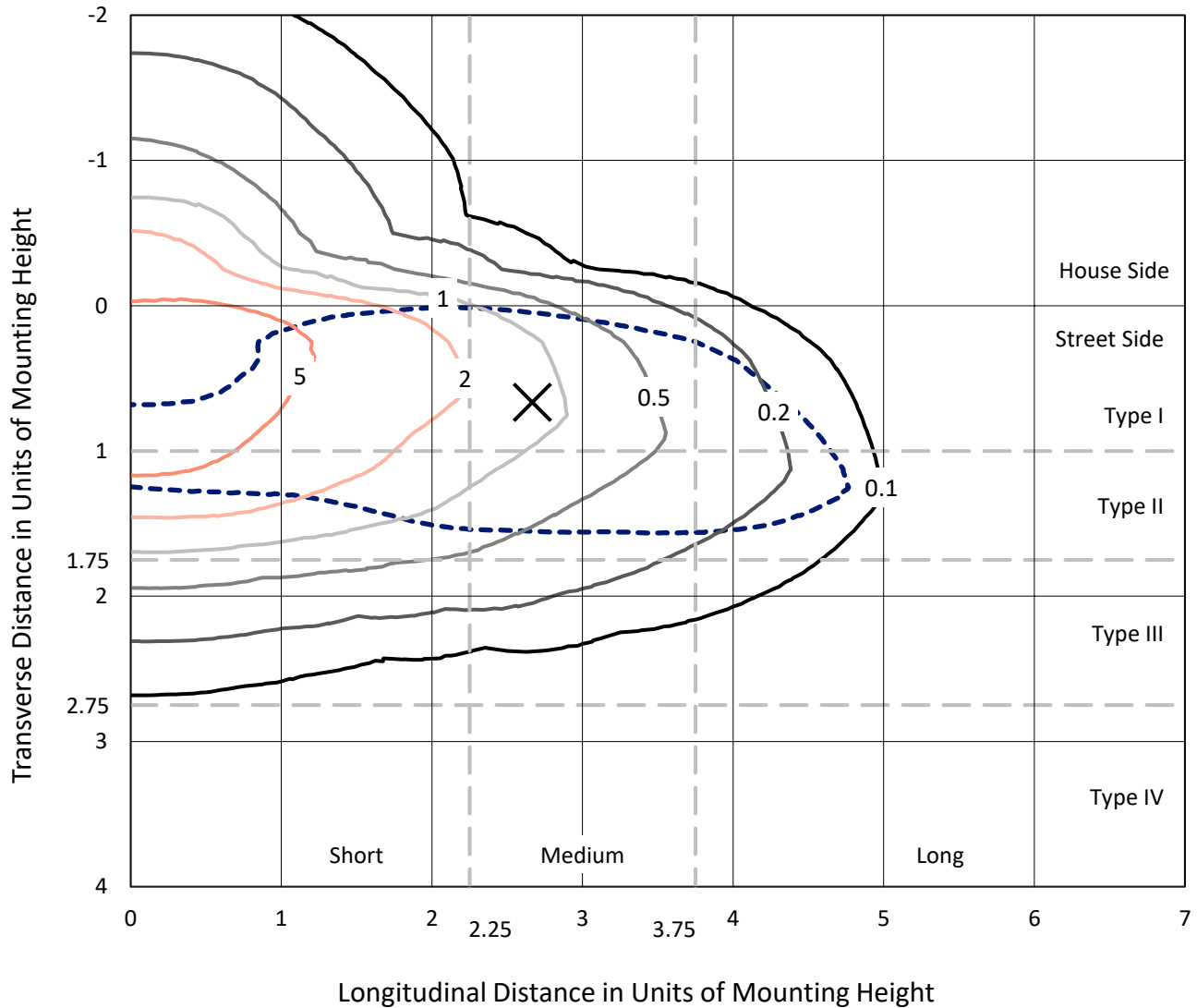
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399724
 CATALOG NUMBER: ARCH-L-PA3-180-750-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

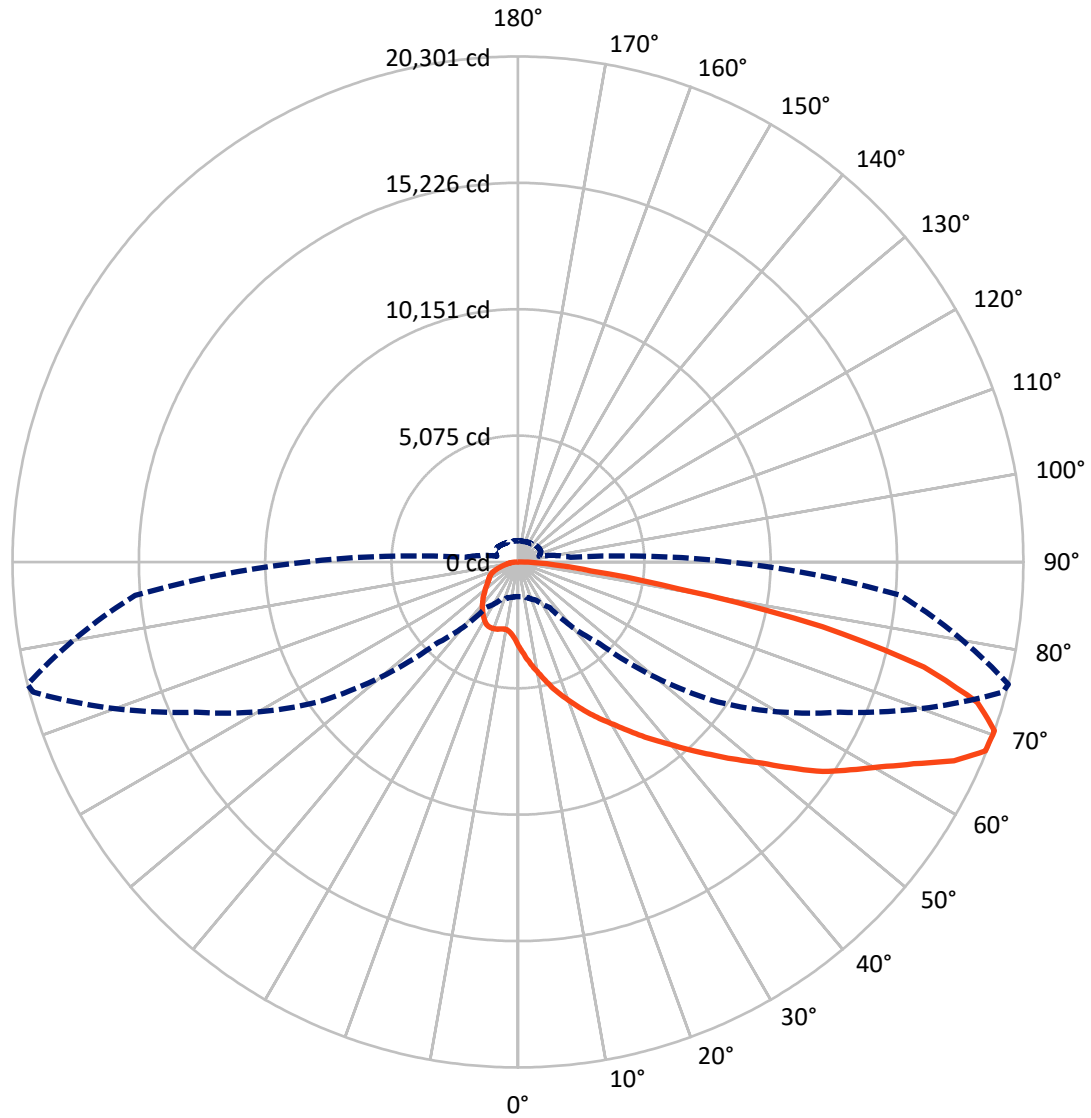
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P399724
CATALOG NUMBER: ARCH-L-PA3-180-750-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399724

CATALOG NUMBER: ARCH-L-PA3-180-750-U-T2R

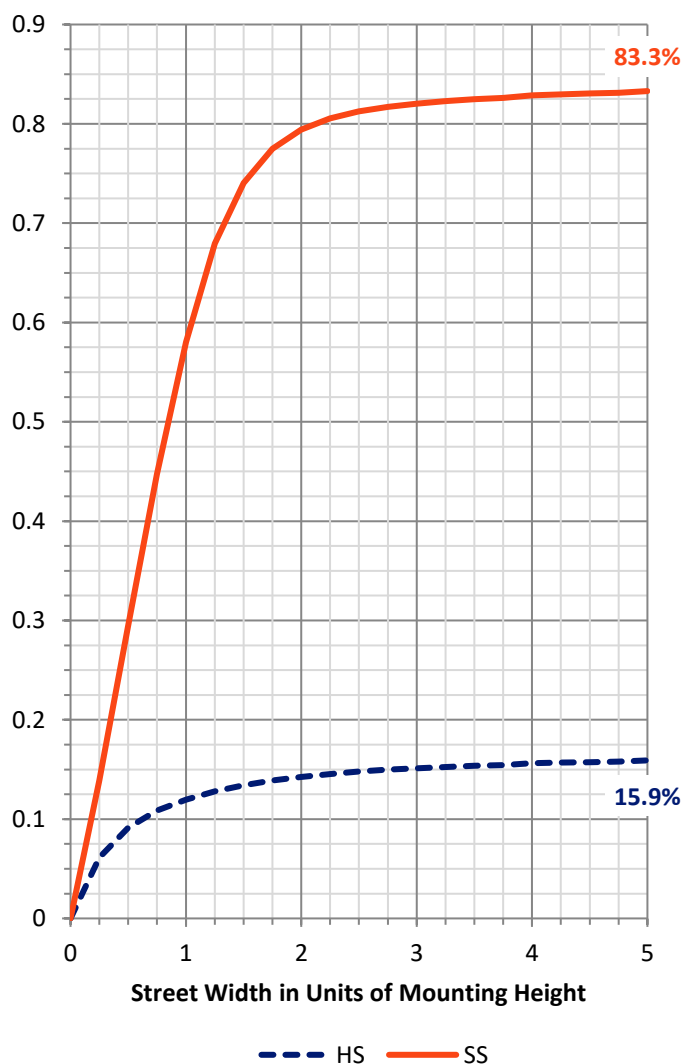
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4396.4	0.0	4396.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	22532.6	0.0	22532.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	26929.0	0.0	26929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	1.3
10°-20°	1189.2	4.4
20°-30°	2127.7	7.9
30°-40°	3441.8	12.8
40°-50°	4979.1	18.5
50°-60°	5698.9	21.2
60°-70°	5242.3	19.5
70°-80°	3241.8	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°	26929.0	100.0
0°-180°	26929.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399724

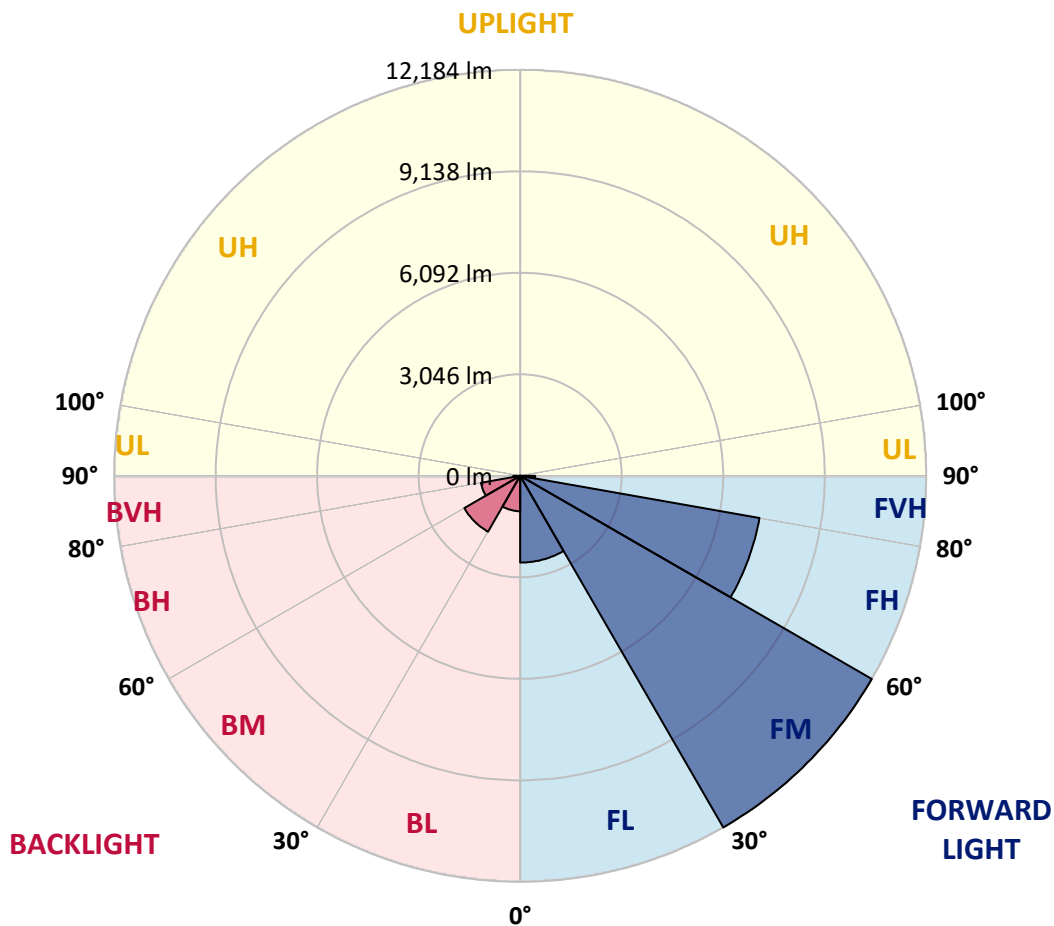
CATALOG NUMBER: ARCH-L-PA3-180-750-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2604.9	9.7			
FM (30°-60°)	12184.1	45.2			
FH (60°-80°)	7291.6	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°)	1935.7	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





REPORT NUMBER: P399724

CATALOG NUMBER: ARCH-L-PA3-180-750-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6
2.5°	4291.8	4259.9	4256.4	4206.8	4160.8	4036.9	3948.3	3792.5	3636.7	3633.2	3477.4
5°	4961.1	4929.2	4911.5	4851.3	4773.4	4610.5	4451.2	4210.4	3944.8	3927.1	3633.2
7.5°	5414.3	5386.0	5350.6	5325.8	5251.5	5106.3	4911.5	4624.7	4259.9	4224.5	3813.8
10°	5718.9	5701.2	5694.1	5676.4	5630.3	5513.5	5325.8	5021.3	4575.1	4536.1	4005.0
12.5°	5849.9	5842.8	5874.7	5924.3	5942.0	5895.9	5715.3	5428.5	4922.1	4879.6	4235.2
15°	5697.6	5704.7	5786.2	5956.1	6136.7	6235.9	6129.6	5849.9	5315.2	5255.0	4504.3
17.5°	5626.8	5637.4	5694.1	5857.0	6111.9	6420.0	6469.6	6250.0	5694.1	5609.1	4787.6
20°	5750.7	5764.9	5807.4	5934.9	6111.9	6441.3	6699.8	6632.5	6065.9	5977.4	5060.2
22.5°	6065.9	6083.6	6080.1	6161.5	6281.9	6508.5	6827.2	6993.7	6455.4	6356.3	5343.5
25°	6738.7	6724.6	6604.2	6565.2	6597.1	6742.3	6997.2	7340.7	6862.7	6763.5	5641.0
27.5°	7652.3	7634.6	7415.1	7216.8	7039.7	7103.4	7238.0	7620.4	7277.0	7163.6	5924.3
30°	8629.7	8608.4	8353.5	8031.2	7638.2	7546.1	7528.4	7864.8	7694.8	7574.4	6225.3
32.5°	9582.2	9564.5	9291.8	8916.5	8374.7	8098.5	7928.5	8137.4	8169.3	8052.5	6554.6
35°	10449.8	10449.8	10216.1	9769.9	9157.3	8739.4	8459.7	8473.9	8714.6	8580.1	6929.9
37.5°	11221.7	11218.2	10963.2	10524.2	9936.3	9458.3	9111.3	8881.1	9235.2	9118.3	7323.0
40°	11834.4	11809.6	11621.9	11239.5	10648.1	10173.6	9823.0	9359.1	9815.9	9709.7	7740.8
42.5°	12280.5	12266.4	12138.9	11806.0	11243.0	10796.8	10556.0	9961.1	10474.6	10368.3	8229.5
45°	12454.1	12482.4	12482.4	12167.2	11721.0	11313.8	11207.6	10623.3	11186.3	11080.1	8753.6
47.5°	12174.3	12248.7	12400.9	12422.2	12029.1	11752.9	11788.3	11289.0	11919.3	11862.7	9327.3
50°	11299.7	11437.8	11770.6	12372.6	12153.1	12089.3	12284.1	11968.9	12705.5	12687.8	10024.9
52.5°	9044.0	9380.4	10417.9	11498.0	12068.1	12245.1	12776.3	12733.8	13718.2	13746.6	10934.9
55°	6937.0	7064.5	8264.9	10102.8	11547.5	12195.6	13105.6	13481.0	14816.0	14851.4	11770.6
57.5°	5609.1	5694.1	6349.2	8264.9	10361.3	11926.4	13364.1	13916.5	15658.7	15750.8	12514.2
60°	4444.1	4568.0	5007.1	6324.4	8700.5	11278.4	13544.7	14401.7	16565.3	16703.4	13403.1
62.5°	3303.8	3364.0	3778.4	4684.9	6887.4	10113.4	13449.1	14929.3	17677.2	17843.6	14472.5
65°	2351.3	2404.4	2698.3	3332.2	5092.1	8537.6	12893.1	15322.3	19072.4	19242.3	15549.0
67.5°	1759.9	1781.2	1947.6	2330.0	3431.3	6632.5	11767.1	15255.1	20092.2	20244.5	15981.0
70°	1391.7	1398.7	1480.2	1685.6	2230.9	4617.6	9794.7	14267.1	20166.6	20301.1	15435.7
72.5°	1154.4	1150.9	1196.9	1296.0	1554.5	2921.4	7255.7	12432.8	19210.5	19302.5	13913.0
75°	952.6	959.6	991.5	1048.2	1186.3	1926.4	4702.6	9918.6	16947.7	16848.6	11675.0
77.5°	800.3	796.7	810.9	860.5	959.6	1384.6	2755.0	7167.2	12560.3	12510.7	7662.9
80°	644.5	651.6	672.8	715.3	807.4	1055.2	1628.9	4472.4	6738.7	6558.1	3661.5
82.5°	432.0	499.3	541.8	591.4	697.6	779.0	1034.0	2273.4	3013.5	2967.4	1660.8
85°	205.4	272.7	403.7	460.3	566.6	488.7	701.1	1083.6	1508.5	1490.8	598.4
87.5°	42.5	42.5	216.0	258.5	350.6	208.9	389.5	471.0	729.5	683.4	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



REPORT NUMBER: P399724
 CATALOG NUMBER: ARCH-L-PA3-180-750-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6
2.5°	3385.3	3289.7	3098.5	2946.2	2790.4	2701.9	2592.1	2539.0	2528.3	2500.0	2521.3
5°	3445.5	3257.8	2896.6	2659.4	2500.0	2422.1	2383.2	2369.0	2365.5	2358.4	2358.4
7.5°	3526.9	3240.1	2769.1	2528.3	2425.7	2400.9	2411.5	2432.7	2436.3	2443.4	2439.8
10°	3626.1	3243.6	2698.3	2496.5	2446.9	2450.4	2485.9	2514.2	2528.3	2539.0	2535.4
12.5°	3764.2	3286.1	2687.7	2517.7	2496.5	2510.6	2546.1	2574.4	2588.5	2592.1	2592.1
15°	3944.8	3374.7	2712.5	2563.8	2546.1	2556.7	2577.9	2588.5	2592.1	2588.5	2588.5
17.5°	4143.1	3480.9	2747.9	2592.1	2563.8	2553.1	2546.1	2535.4	2514.2	2500.0	2500.0
20°	4334.3	3576.5	2765.6	2588.5	2539.0	2496.5	2454.0	2400.9	2365.5	2337.1	2337.1
22.5°	4525.5	3665.0	2765.6	2549.6	2471.7	2390.2	2301.7	2216.7	2163.6	2128.2	2128.2
25°	4727.4	3750.0	2744.4	2482.3	2365.5	2248.6	2128.2	2022.0	1968.9	1933.4	1926.4
27.5°	4897.3	3799.6	2687.7	2386.7	2234.4	2085.7	1947.6	1837.8	1798.9	1767.0	1767.0
30°	5077.9	3831.5	2581.5	2262.8	2085.7	1915.7	1774.1	1685.6	1643.1	1597.0	1593.5
32.5°	5279.8	3852.7	2461.1	2131.7	1933.4	1752.8	1632.4	1561.6	1469.6	1420.0	1412.9
35°	5513.5	3881.0	2333.6	1983.0	1781.2	1618.3	1547.5	1430.6	1342.1	1299.6	1296.0
37.5°	5761.4	3902.3	2195.5	1852.0	1643.1	1529.8	1458.9	1320.8	1242.9	1179.2	1172.1
40°	6023.4	3902.3	2053.8	1724.5	1533.3	1490.8	1356.2	1232.3	1101.3	1069.4	1062.3
42.5°	6313.8	3895.2	1912.2	1600.6	1430.6	1402.3	1296.0	1165.0	1097.7	1069.4	1062.3
45°	6621.9	3870.4	1777.6	1458.9	1324.4	1267.7	1186.3	1150.9	1122.5	1122.5	1122.5
47.5°	6972.4	3849.2	1625.4	1331.5	1246.5	1182.7	1122.5	1101.3	1097.7	1108.4	1119.0
50°	7422.1	3842.1	1497.9	1239.4	1186.3	1111.9	1104.8	1087.1	1090.7	1090.7	1090.7
52.5°	7967.5	3778.4	1377.5	1172.1	1126.1	1037.5	1058.8	1076.5	1083.6	1080.0	1076.5
55°	8367.6	3665.0	1274.8	1126.1	1083.6	1009.2	1037.5	1065.9	1073.0	1062.3	1062.3
57.5°	8728.8	3505.7	1193.4	1090.7	1055.2	991.5	1023.4	1051.7	1044.6	1041.1	1037.5
60°	9143.1	3353.4	1129.6	1073.0	1026.9	984.4	1012.8	1030.5	1019.8	1012.8	1009.2
62.5°	9592.8	3204.7	1083.6	1073.0	1005.7	980.9	1002.1	1009.2	988.0	980.9	980.9
65°	9801.8	2971.0	1034.0	1073.0	995.0	973.8	980.9	973.8	952.6	952.6	949.0
67.5°	9458.3	2585.0	970.3	1058.8	1009.2	963.2	949.0	938.4	913.6	913.6	906.5
70°	8509.3	2124.7	878.2	1012.8	1012.8	959.6	906.5	881.7	853.4	864.0	849.9
72.5°	7269.9	1685.6	764.9	934.9	991.5	956.1	860.5	821.5	796.7	807.4	786.1
75°	5888.9	1306.7	630.3	810.9	938.4	938.4	814.5	761.3	733.0	733.0	708.2
77.5°	3753.6	966.7	513.5	672.8	842.8	913.6	775.5	694.1	651.6	640.9	623.2
80°	1859.1	679.9	421.4	534.7	718.8	856.9	747.2	616.2	556.0	534.7	502.8
82.5°	988.0	471.0	336.4	417.8	573.7	772.0	711.8	531.2	456.8	424.9	389.5
85°	442.6	290.4	269.1	318.7	435.6	633.9	640.9	435.6	350.6	417.8	308.1
87.5°	162.9	131.0	131.0	162.9	251.4	265.6	453.3	279.7	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)