

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: P400201

Luminaire Tested: **ARCH-L-PA3-250-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400201
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-PA3-250-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28257 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

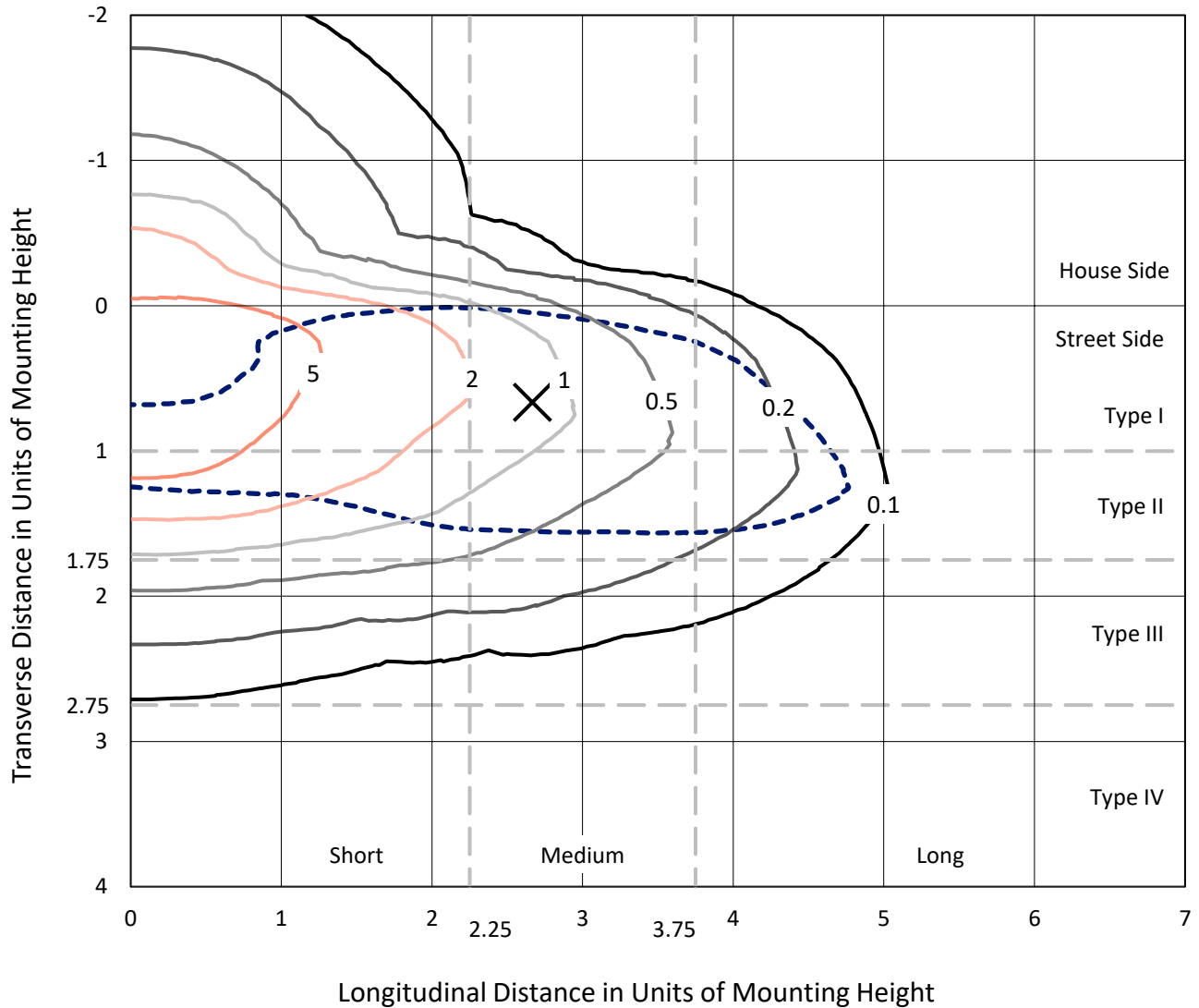
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

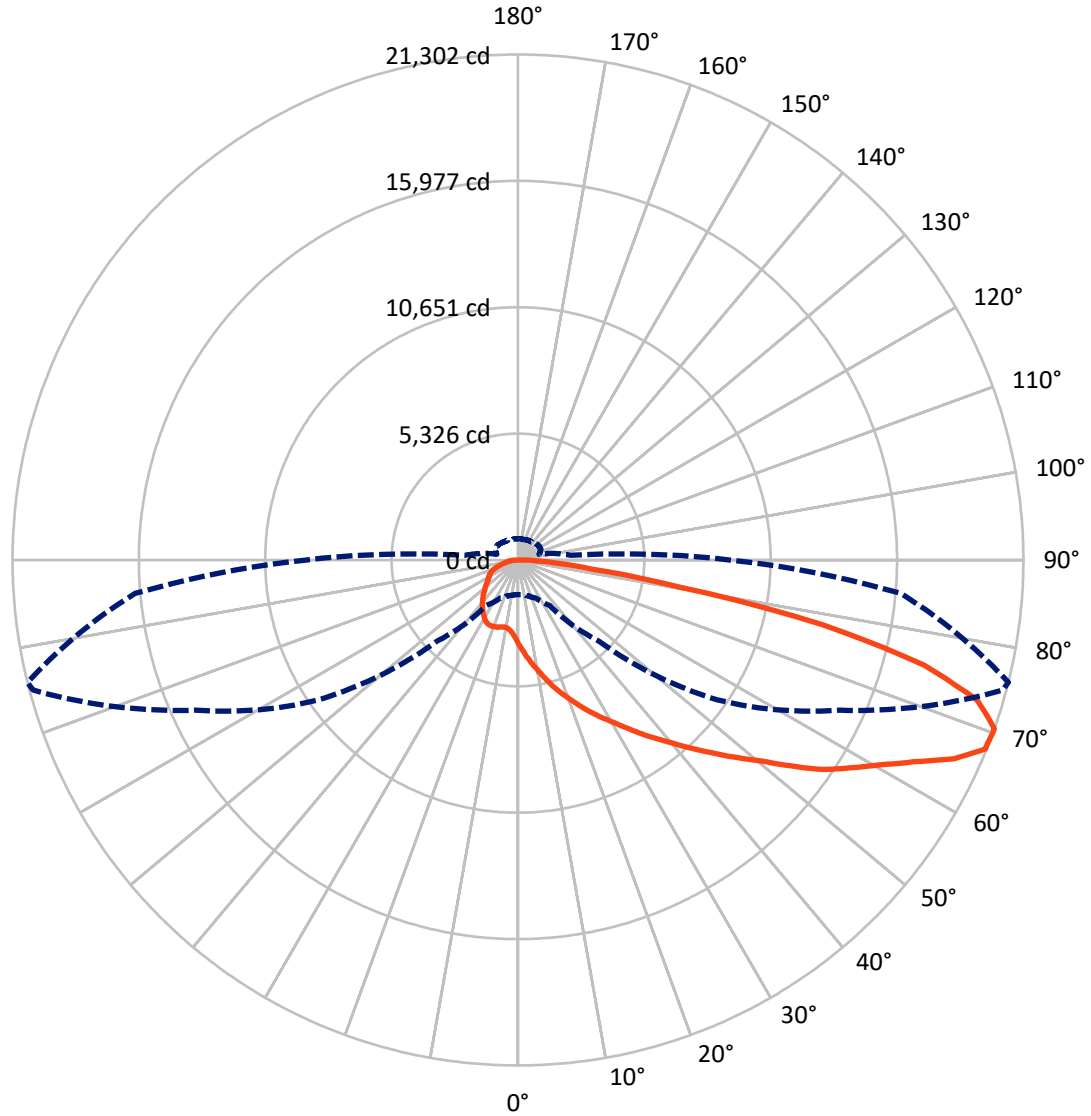
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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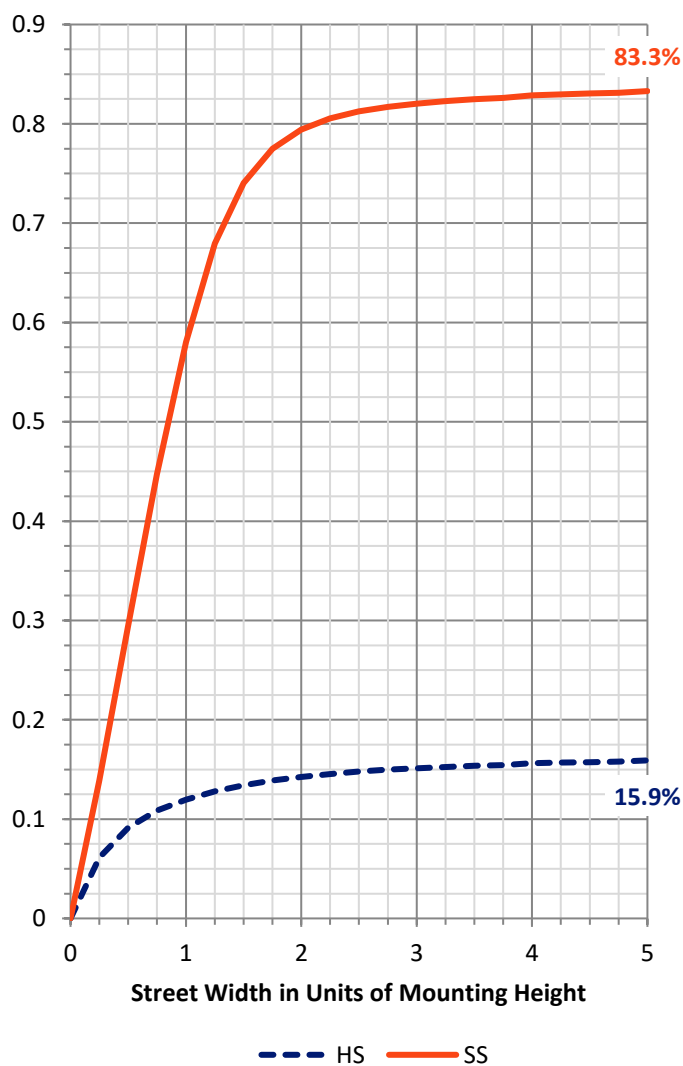
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4613.2	0.0	4613.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	23643.8	0.0	23643.8
	% Fixture	83.7	0.0	83.7
Total	Lumens	28257.0	0.0	28257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.2	1.3
10°-20°	1247.9	4.4
20°-30°	2232.6	7.9
30°-40°	3611.5	12.8
40°-50°	5224.7	18.5
50°-60°	5979.9	21.2
60°-70°	5500.9	19.5
70°-80°	3401.6	12.0
80°-90°	690.8	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°	28257.0	100.0
0°-180°	28257.0	100.0

Coefficient of Utilization



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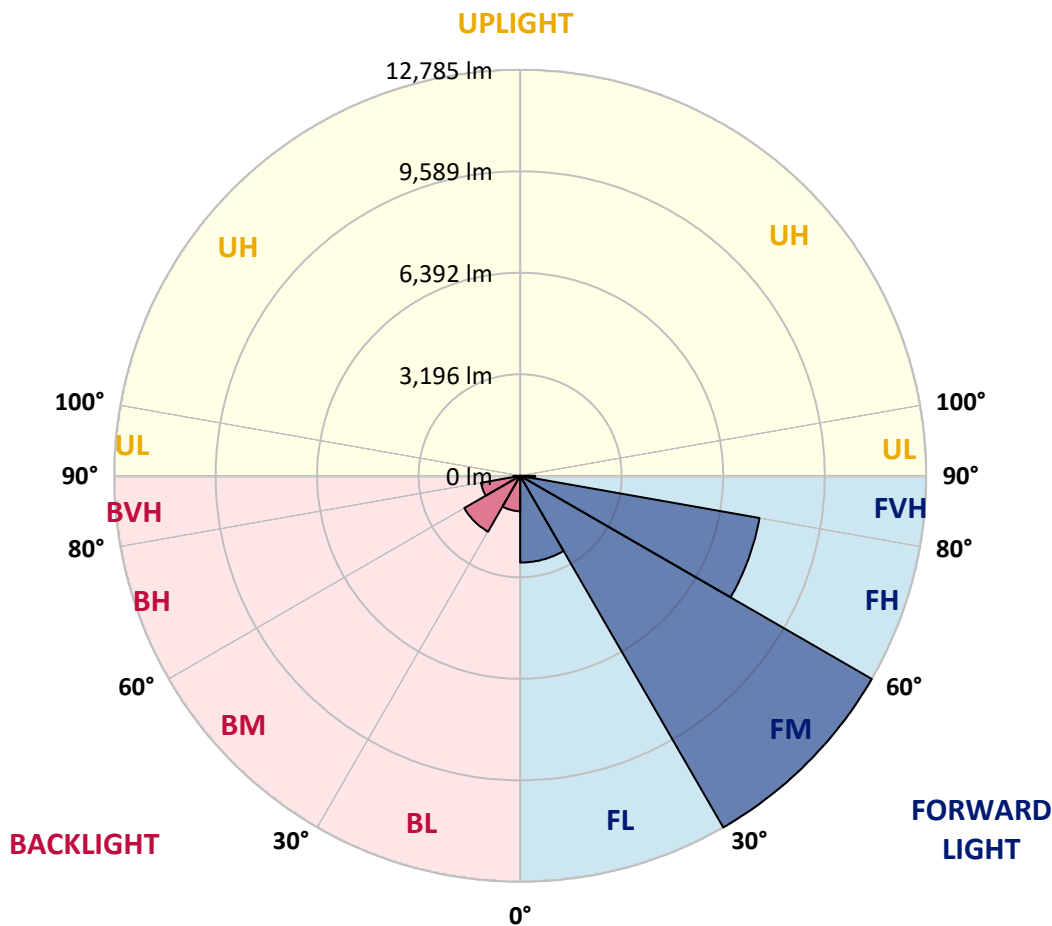
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2733.4	9.7			
FM (30°-60°)	12785.0	45.2			
FH (60°-80°)	7651.2	27.1			G4/12000
FVH (80°-90°)	474.2	1.7			G3/500
BL (0°-30°)	1114.2	3.9	B3/2500		
BM (30°-60°)	2031.2	7.2	B2/2500		
BH (60°-80°)	1251.3	4.4	B3/2500		G3/2500
BVH (80°-90°)	216.6	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3533.7	3533.7	3533.7	3533.7	3533.7	3533.7	3533.7	3533.7	3533.7	3533.7	3533.7
2.5°	4503.5	4470.0	4466.3	4414.3	4366.0	4235.9	4143.0	3979.5	3816.1	3812.3	3648.8
5°	5205.7	5172.3	5153.7	5090.5	5008.8	4837.9	4670.7	4418.0	4139.3	4120.7	3812.3
7.5°	5681.4	5651.6	5614.5	5588.5	5510.4	5358.1	5153.7	4852.7	4470.0	4432.9	4001.8
10°	6000.9	5982.3	5974.9	5956.3	5908.0	5785.4	5588.5	5268.9	4800.7	4759.8	4202.5
12.5°	6138.4	6131.0	6164.4	6216.4	6235.0	6186.7	5997.2	5696.2	5164.9	5120.3	4444.0
15°	5978.6	5986.0	6071.5	6249.9	6439.4	6543.4	6431.9	6138.4	5577.3	5514.1	4726.4
17.5°	5904.3	5915.4	5974.9	6145.8	6413.3	6736.6	6788.6	6558.3	5974.9	5885.7	5023.7
20°	6034.3	6049.2	6093.8	6227.6	6413.3	6758.9	7030.2	6959.6	6365.0	6272.2	5309.8
22.5°	6365.0	6383.6	6379.9	6465.4	6591.7	6829.5	7163.9	7338.6	6773.8	6669.7	5607.0
25°	7071.0	7056.2	6929.8	6889.0	6922.4	7074.7	7342.3	7702.7	7201.1	7097.0	5919.2
27.5°	8029.7	8011.1	7780.7	7572.7	7386.9	7453.8	7595.0	7996.2	7635.8	7516.9	6216.4
30°	9055.2	9032.9	8765.4	8427.3	8014.8	7918.2	7899.6	8252.6	8074.3	7947.9	6532.3
32.5°	10054.8	10036.2	9750.1	9356.2	8787.7	8497.9	8319.5	8538.7	8572.2	8449.6	6877.8
35°	10965.1	10965.1	10719.9	10251.7	9608.9	9170.4	8876.9	8891.7	9144.4	9003.2	7271.7
37.5°	11775.1	11771.4	11503.9	11043.1	10426.3	9924.7	9560.6	9319.0	9690.6	9568.0	7684.1
40°	12418.0	12392.0	12195.0	11793.7	11173.2	10675.3	10307.4	9820.7	10300.0	10188.5	8122.6
42.5°	12886.1	12871.3	12737.5	12388.2	11797.4	11329.3	11076.6	10452.3	10991.1	10879.7	8635.4
45°	13068.2	13097.9	13097.9	12767.2	12299.1	11871.8	11760.3	11147.2	11738.0	11626.5	9185.3
47.5°	12774.7	12852.7	13012.5	13034.8	12622.3	12332.5	12369.7	11845.7	12507.1	12447.7	9787.2
50°	11856.9	12001.8	12351.1	12982.8	12752.4	12685.5	12889.9	12559.2	13332.0	13313.5	10519.2
52.5°	9490.0	9843.0	10931.7	12065.0	12663.2	12849.0	13406.4	13361.8	14394.7	14424.5	11474.2
55°	7279.1	7412.9	8672.5	10601.0	12117.0	12797.0	13751.9	14145.8	15546.6	15583.8	12351.1
57.5°	5885.7	5974.9	6662.3	8672.5	10872.2	12514.6	14023.2	14602.8	16431.0	16527.6	13131.4
60°	4663.2	4793.3	5254.0	6636.3	9129.5	11834.6	14212.7	15111.9	17382.2	17527.1	14064.0
62.5°	3466.8	3529.9	3964.7	4915.9	7227.1	10612.1	14112.3	15665.5	18548.9	18723.6	15186.2
65°	2467.2	2523.0	2831.4	3496.5	5343.2	8958.6	13529.0	16078.0	20012.9	20191.3	16315.8
67.5°	1846.7	1869.0	2043.7	2445.0	3600.5	6959.6	12347.4	16007.4	21083.0	21242.8	16769.1
70°	1460.3	1467.7	1553.2	1768.7	2340.9	4845.3	10277.7	14970.7	21161.1	21302.3	16196.9
72.5°	1211.3	1207.6	1255.9	1360.0	1631.2	3065.5	7613.5	13045.9	20157.8	20254.4	14599.1
75°	999.5	1007.0	1040.4	1099.9	1244.8	2021.4	4934.5	10407.8	17783.5	17679.4	12250.8
77.5°	839.8	836.0	850.9	902.9	1007.0	1452.9	2890.8	7520.6	13179.7	13127.7	8040.8
80°	676.3	683.7	706.0	750.6	847.2	1107.3	1709.2	4693.0	7071.0	6881.5	3842.1
82.5°	453.3	523.9	568.5	620.5	732.0	817.5	1085.0	2385.5	3162.1	3113.8	1742.7
85°	215.5	286.1	423.6	483.0	594.5	512.8	735.7	1137.0	1582.9	1564.3	628.0
87.5°	44.6	44.6	226.7	271.2	367.9	219.2	408.7	494.2	765.4	717.1	256.4
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°	3533.7	3533.7	3533.7	3533.7	3533.7	3533.7	3533.7	3533.7	3533.7	3533.7	3533.7
2.5°	3552.2	3451.9	3251.3	3091.5	2928.0	2835.1	2719.9	2664.2	2653.0	2623.3	2645.6
5°	3615.4	3418.5	3039.5	2790.5	2623.3	2541.6	2500.7	2485.8	2482.1	2474.7	2474.7
7.5°	3700.9	3399.9	2905.7	2653.0	2545.3	2519.3	2530.4	2552.7	2556.4	2563.9	2560.1
10°	3804.9	3403.6	2831.4	2619.6	2567.6	2571.3	2608.4	2638.2	2653.0	2664.2	2660.5
12.5°	3949.8	3448.2	2820.2	2641.9	2619.6	2634.5	2671.6	2701.3	2716.2	2719.9	2719.9
15°	4139.3	3541.1	2846.2	2690.2	2671.6	2682.8	2705.1	2716.2	2719.9	2716.2	2716.2
17.5°	4347.4	3652.6	2883.4	2719.9	2690.2	2679.0	2671.6	2660.5	2638.2	2623.3	2623.3
20°	4548.1	3752.9	2902.0	2716.2	2664.2	2619.6	2575.0	2519.3	2482.1	2452.4	2452.4
22.5°	4748.7	3845.8	2902.0	2675.3	2593.6	2508.1	2415.2	2326.0	2270.3	2233.2	2233.2
25°	4960.5	3935.0	2879.7	2604.7	2482.1	2359.5	2233.2	2121.7	2065.9	2028.8	2021.4
27.5°	5138.9	3987.0	2820.2	2504.4	2344.6	2188.6	2043.7	1928.5	1887.6	1854.1	1854.1
30°	5328.4	4020.4	2708.8	2374.4	2188.6	2010.2	1861.6	1768.7	1724.1	1675.8	1672.1
32.5°	5540.2	4042.7	2582.4	2236.9	2028.8	1839.3	1713.0	1638.6	1542.0	1490.0	1482.6
35°	5785.4	4072.4	2448.7	2080.8	1869.0	1698.1	1623.8	1501.2	1408.3	1363.7	1360.0
37.5°	6045.5	4094.7	2303.8	1943.3	1724.1	1605.2	1530.9	1386.0	1304.2	1237.3	1229.9
40°	6320.5	4094.7	2155.1	1809.6	1608.9	1564.3	1423.1	1293.1	1155.6	1122.2	1114.7
42.5°	6625.1	4087.3	2006.5	1679.5	1501.2	1471.4	1360.0	1222.5	1151.9	1122.2	1114.7
45°	6948.4	4061.3	1865.3	1530.9	1389.7	1330.2	1244.8	1207.6	1177.9	1177.9	1177.9
47.5°	7316.3	4039.0	1705.5	1397.1	1307.9	1241.1	1177.9	1155.6	1151.9	1163.0	1174.2
50°	7788.2	4031.6	1571.8	1300.5	1244.8	1166.7	1159.3	1140.7	1144.4	1144.4	1144.4
52.5°	8360.4	3964.7	1445.4	1229.9	1181.6	1088.7	1111.0	1129.6	1137.0	1133.3	1129.6
55°	8780.3	3845.8	1337.7	1181.6	1137.0	1059.0	1088.7	1118.4	1125.9	1114.7	1114.7
57.5°	9159.3	3678.6	1252.2	1144.4	1107.3	1040.4	1073.8	1103.6	1096.1	1092.4	1088.7
60°	9594.0	3518.8	1185.3	1125.9	1077.6	1033.0	1062.7	1081.3	1070.1	1062.7	1059.0
62.5°	10065.9	3362.7	1137.0	1125.9	1055.3	1029.3	1051.6	1059.0	1036.7	1029.3	1029.3
65°	10285.1	3117.5	1085.0	1125.9	1044.1	1021.8	1029.3	1021.8	999.5	999.5	995.8
67.5°	9924.7	2712.5	1018.1	1111.0	1059.0	1010.7	995.8	984.7	958.7	958.7	951.2
70°	8928.9	2229.4	921.5	1062.7	1062.7	1007.0	951.2	925.2	895.5	906.6	891.8
72.5°	7628.4	1768.7	802.6	981.0	1040.4	1003.2	902.9	862.0	836.0	847.2	824.9
75°	6179.3	1371.1	661.4	850.9	984.7	984.7	854.6	798.9	769.2	769.2	743.1
77.5°	3938.7	1014.4	538.8	706.0	884.3	958.7	813.7	728.3	683.7	672.5	654.0
80°	1950.8	713.4	442.2	561.1	754.3	899.2	784.0	646.5	583.4	561.1	527.6
82.5°	1036.7	494.2	353.0	438.5	601.9	810.0	746.9	557.4	479.3	445.9	408.7
85°	464.5	304.7	282.4	334.4	457.0	665.1	672.5	457.0	367.9	438.5	323.3
87.5°	170.9	137.5	137.5	170.9	263.8	278.7	475.6	293.5	234.1	159.8	126.3
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)