

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: P400462

Luminaire Tested: **ARCH-L-PA3-280-827-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400462
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-PA3-280-827-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26514 lumens
Efficiency: N/A
Efficacy: 95.0 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

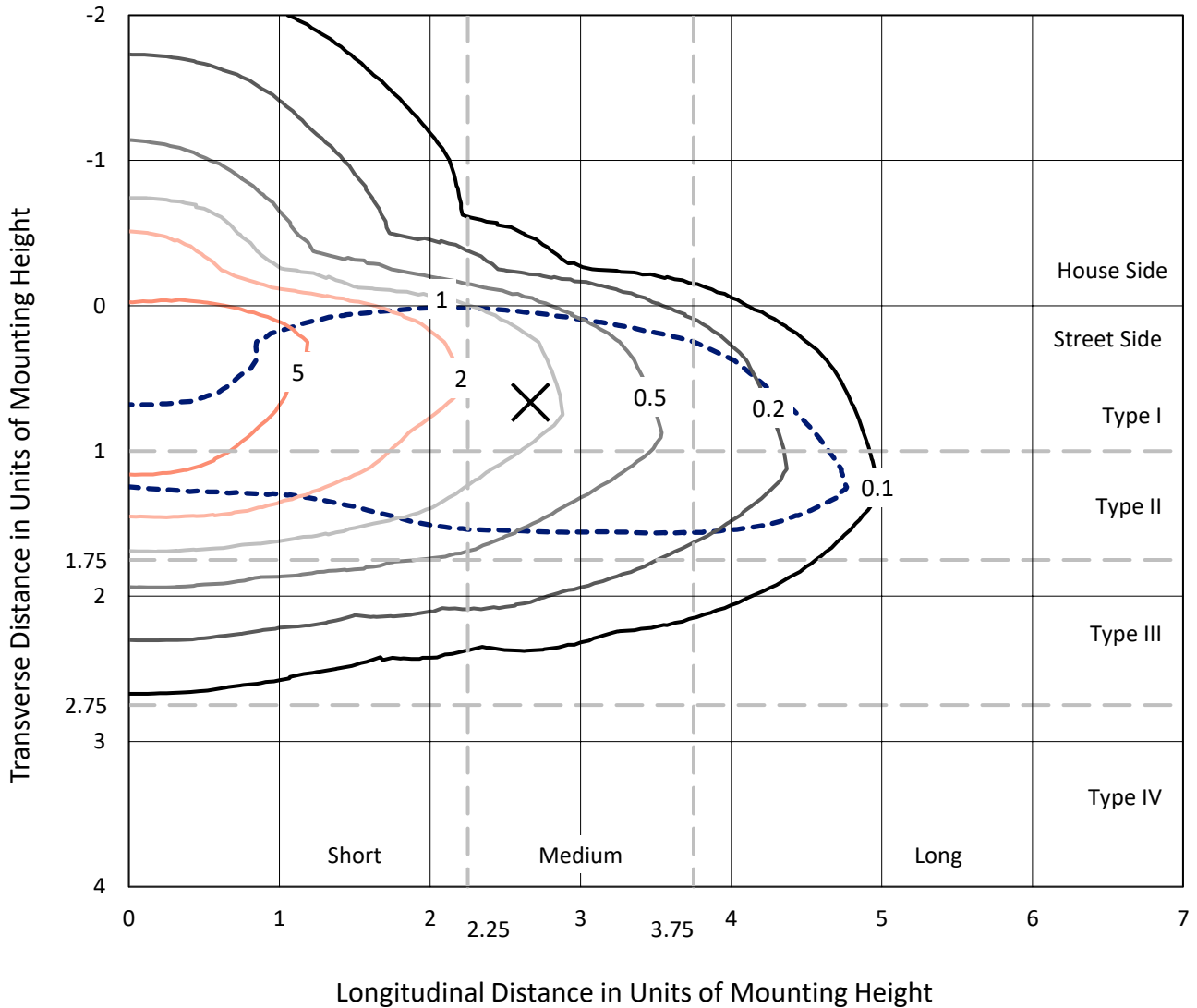
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

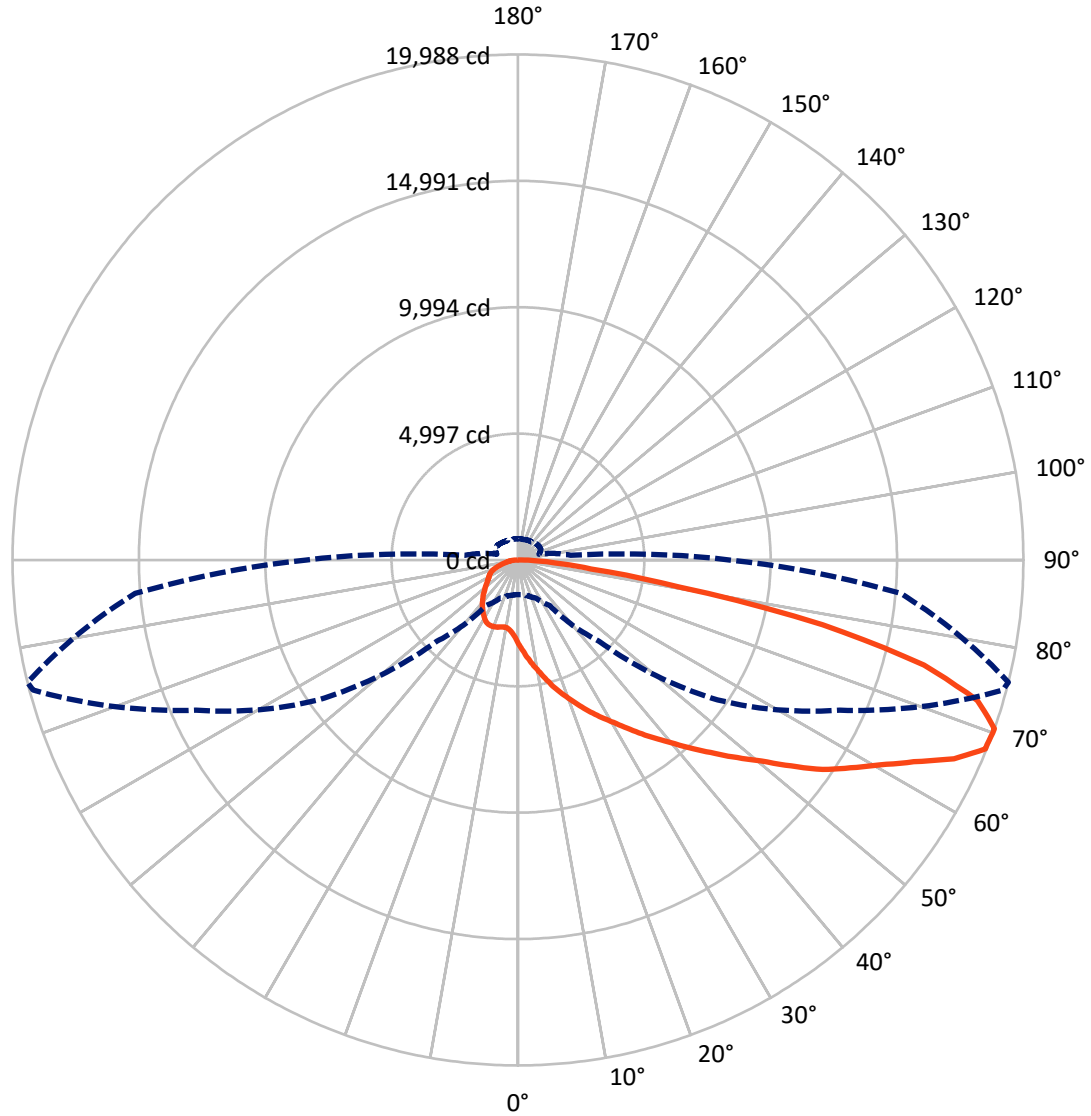
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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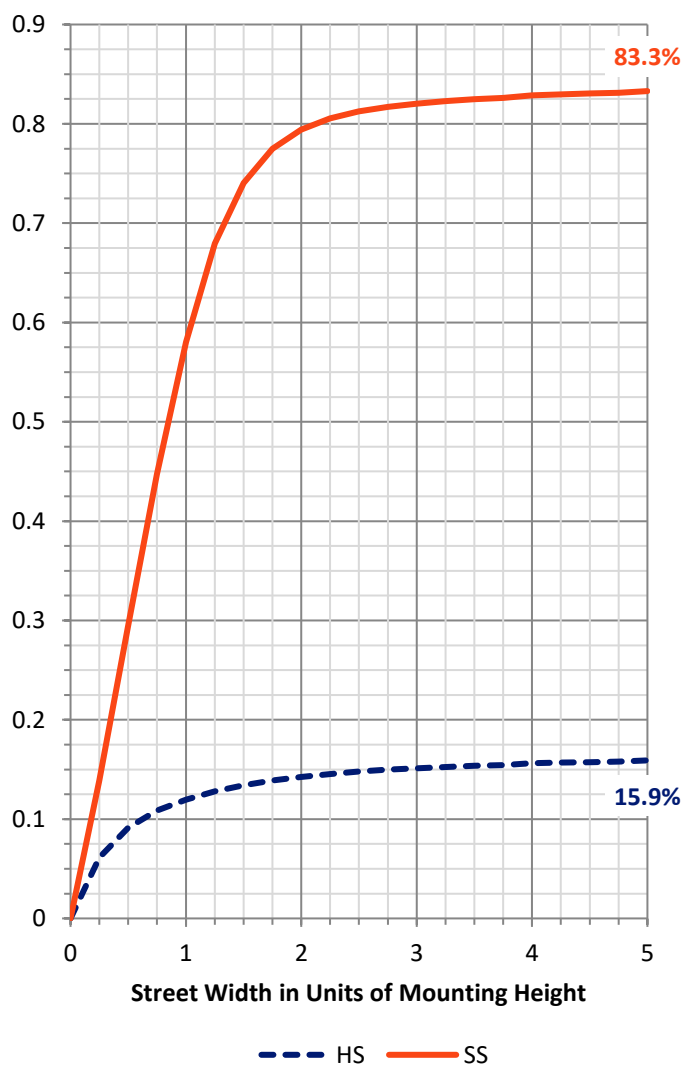
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4328.7	0.0	4328.7
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	22185.3	0.0	22185.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	26514.0	0.0	26514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	1.3
10°-20°	1170.9	4.4
20°-30°	2094.9	7.9
30°-40°	3388.8	12.8
40°-50°	4902.4	18.5
50°-60°	5611.1	21.2
60°-70°	5161.5	19.5
70°-80°	3191.8	12.0
80°-90°	648.1	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°	26514.0	100.0
0°-180°	26514.0	100.0

Coefficient of Utilization



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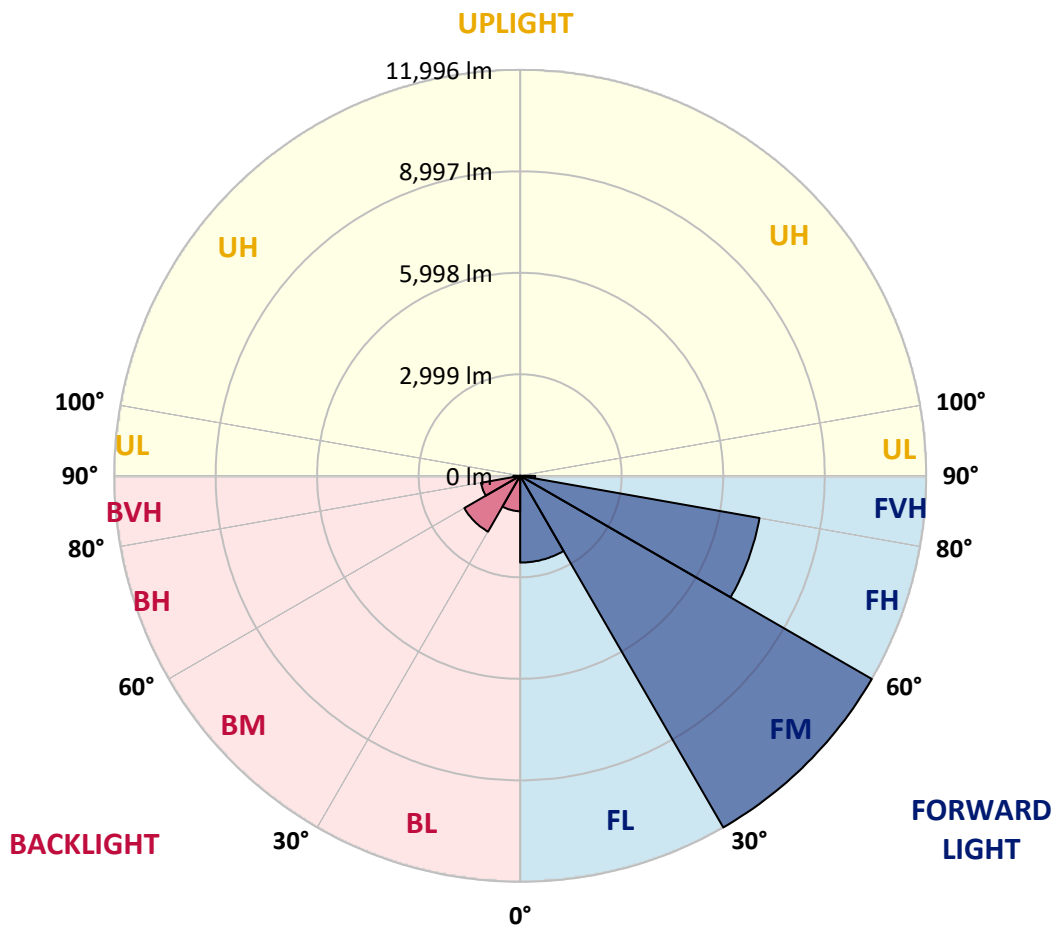
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2564.8	9.7			
FM (30°-60°)	11996.3	45.2			
FH (60°-80°)	7179.3	27.1			G3/7500
FVH (80°-90°)	444.9	1.7			G3/500
BL (0°-30°)	1045.5	3.9	B3/2500		
BM (30°-60°)	1905.9	7.2	B2/2500		
BH (60°-80°)	1174.1	4.4	B3/2500		G3/2500
BVH (80°-90°)	203.2	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°	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7
2.5°	4225.7	4194.3	4190.8	4142.0	4096.7	3974.6	3887.5	3734.1	3580.7	3577.2	3423.8
5°	4884.6	4853.2	4835.8	4776.5	4699.8	4539.5	4382.6	4145.5	3884.0	3866.6	3577.2
7.5°	5330.9	5303.0	5268.1	5243.7	5170.5	5027.6	4835.8	4553.4	4194.3	4159.4	3755.0
10°	5630.7	5613.3	5606.3	5588.9	5543.6	5428.5	5243.7	4943.9	4504.6	4466.2	3943.3
12.5°	5759.7	5752.8	5784.2	5833.0	5850.4	5805.1	5627.3	5344.8	4846.3	4804.4	4169.9
15°	5609.8	5616.8	5697.0	5864.3	6042.2	6139.8	6035.2	5759.7	5233.3	5174.0	4434.9
17.5°	5540.1	5550.6	5606.3	5766.7	6017.7	6321.1	6369.9	6153.7	5606.3	5522.7	4713.8
20°	5662.1	5676.1	5717.9	5843.4	6017.7	6342.0	6596.5	6530.3	5972.4	5885.3	4982.3
22.5°	5972.4	5989.9	5986.4	6066.6	6185.1	6408.2	6722.0	6885.9	6355.9	6258.3	5261.2
25°	6634.9	6620.9	6502.4	6464.0	6495.4	6638.4	6889.4	7227.6	6756.9	6659.3	5554.0
27.5°	7534.4	7517.0	7300.8	7105.5	6931.2	6994.0	7126.5	7503.0	7164.8	7053.2	5833.0
30°	8496.7	8475.8	8224.7	7907.4	7520.4	7429.8	7412.4	7743.6	7576.2	7457.7	6129.3
32.5°	9434.5	9417.1	9148.7	8779.1	8245.6	7973.7	7806.3	8012.0	8043.4	7928.4	6453.6
35°	10288.7	10288.7	10058.6	9619.3	9016.2	8604.8	8329.3	8343.3	8580.3	8447.9	6823.1
37.5°	11048.8	11045.3	10794.3	10362.0	9783.2	9312.5	8970.8	8744.2	9092.9	8977.8	7210.1
40°	11652.0	11627.6	11442.8	11066.2	10484.0	10016.8	9671.6	9214.9	9664.7	9560.1	7621.6
42.5°	12091.3	12077.3	11951.8	11624.1	11069.7	10630.4	10393.3	9807.6	10313.2	10208.6	8102.7
45°	12262.1	12290.0	12290.0	11979.7	11540.4	11139.5	11034.9	10459.6	11013.9	10909.3	8618.7
47.5°	11986.7	12059.9	12209.8	12230.7	11843.7	11571.8	11606.7	11115.1	11735.7	11679.9	9183.5
50°	11125.5	11261.5	11589.2	12181.9	11965.8	11903.0	12094.8	11784.5	12509.7	12492.2	9870.4
52.5°	8904.6	9235.8	10257.4	11320.8	11882.1	12056.4	12579.4	12537.6	13506.8	13534.7	10766.4
55°	6830.1	6955.6	8137.6	9947.1	11369.6	12007.6	12903.6	13273.2	14587.6	14622.5	11589.2
57.5°	5522.7	5606.3	6251.3	8137.6	10201.6	11742.6	13158.2	13702.1	15417.4	15508.1	12321.4
60°	4375.6	4497.6	4930.0	6226.9	8566.4	11104.6	13336.0	14179.7	16310.0	16446.0	13196.5
62.5°	3252.9	3312.2	3720.1	4612.7	6781.3	9957.5	13241.8	14699.2	17404.8	17568.6	14249.4
65°	2315.1	2367.4	2656.7	3280.8	5013.6	8406.0	12694.5	15086.2	18778.4	18945.8	15309.3
67.5°	1732.8	1753.7	1917.6	2294.1	3378.4	6530.3	11585.7	15020.0	19782.6	19932.5	15734.7
70°	1370.2	1377.2	1457.4	1659.6	2196.5	4546.4	9643.7	14047.2	19855.8	19988.3	15197.8
72.5°	1136.6	1133.1	1178.4	1276.1	1530.6	2876.4	7143.9	12241.2	18914.4	19005.1	13698.6
75°	937.9	944.8	976.2	1032.0	1168.0	1896.7	4630.1	9765.8	16686.5	16588.9	11495.1
77.5°	788.0	784.5	798.4	847.2	944.8	1363.2	2712.5	7056.7	12366.7	12317.9	7544.8
80°	634.5	641.5	662.4	704.3	794.9	1039.0	1603.8	4403.5	6634.9	6457.1	3605.1
82.5°	425.4	491.6	533.4	582.3	686.8	767.0	1018.1	2238.4	2967.0	2921.7	1635.2
85°	202.2	268.5	397.5	453.2	557.8	481.1	690.3	1066.9	1485.3	1467.8	589.2
87.5°	41.8	41.8	212.7	254.5	345.2	205.7	383.5	463.7	718.2	672.9	240.6
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°	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7
2.5°	3333.1	3239.0	3050.7	2900.8	2747.4	2660.2	2552.1	2499.8	2489.4	2461.5	2482.4
5°	3392.4	3207.6	2852.0	2618.4	2461.5	2384.8	2346.4	2332.5	2329.0	2322.0	2322.0
7.5°	3472.6	3190.2	2726.5	2489.4	2388.3	2363.9	2374.3	2395.2	2398.7	2405.7	2402.2
10°	3570.2	3193.7	2656.7	2458.0	2409.2	2412.7	2447.5	2475.4	2489.4	2499.8	2496.4
12.5°	3706.2	3235.5	2646.3	2478.9	2458.0	2471.9	2506.8	2534.7	2548.7	2552.1	2552.1
15°	3884.0	3322.7	2670.7	2524.2	2506.8	2517.3	2538.2	2548.7	2552.1	2548.7	2548.7
17.5°	4079.2	3427.3	2705.5	2552.1	2524.2	2513.8	2506.8	2496.4	2475.4	2461.5	2461.5
20°	4267.5	3521.4	2723.0	2548.7	2499.8	2458.0	2416.2	2363.9	2329.0	2301.1	2301.1
22.5°	4455.8	3608.6	2723.0	2510.3	2433.6	2353.4	2266.2	2182.6	2130.3	2095.4	2095.4
25°	4654.5	3692.2	2702.1	2444.1	2329.0	2213.9	2095.4	1990.8	1938.5	1903.6	1896.7
27.5°	4821.9	3741.0	2646.3	2349.9	2200.0	2053.6	1917.6	1809.5	1771.2	1739.8	1739.8
30°	4999.7	3772.4	2541.7	2227.9	2053.6	1886.2	1746.8	1659.6	1617.7	1572.4	1568.9
32.5°	5198.4	3793.3	2423.1	2098.9	1903.6	1725.8	1607.3	1537.6	1446.9	1398.1	1391.1
35°	5428.5	3821.2	2297.6	1952.5	1753.7	1593.3	1523.6	1408.6	1321.4	1279.6	1276.1
37.5°	5672.6	3842.2	2161.6	1823.5	1617.7	1506.2	1436.4	1300.5	1223.8	1161.0	1154.0
40°	5930.6	3842.2	2022.2	1697.9	1509.7	1467.8	1335.3	1213.3	1084.3	1052.9	1046.0
42.5°	6216.5	3835.2	1882.7	1575.9	1408.6	1380.7	1276.1	1147.1	1080.8	1052.9	1046.0
45°	6519.8	3810.8	1750.2	1436.4	1304.0	1248.2	1168.0	1133.1	1105.2	1105.2	1105.2
47.5°	6865.0	3789.9	1600.3	1310.9	1227.3	1164.5	1105.2	1084.3	1080.8	1091.3	1101.7
50°	7307.8	3782.9	1474.8	1220.3	1168.0	1094.8	1087.8	1070.4	1073.9	1073.9	1073.9
52.5°	7844.7	3720.1	1356.3	1154.0	1108.7	1021.6	1042.5	1059.9	1066.9	1063.4	1059.9
55°	8238.7	3608.6	1255.2	1108.7	1066.9	993.7	1021.6	1049.4	1056.4	1046.0	1046.0
57.5°	8594.3	3451.7	1175.0	1073.9	1039.0	976.2	1007.6	1035.5	1028.5	1025.0	1021.6
60°	9002.2	3301.7	1112.2	1056.4	1011.1	969.3	997.1	1014.6	1004.1	997.1	993.7
62.5°	9445.0	3155.3	1066.9	1056.4	990.2	965.8	986.7	993.7	972.7	965.8	965.8
65°	9650.7	2925.2	1018.1	1056.4	979.7	958.8	965.8	958.8	937.9	937.9	934.4
67.5°	9312.5	2545.2	955.3	1042.5	993.7	948.3	934.4	923.9	899.5	899.5	892.6
70°	8378.1	2091.9	864.7	997.1	997.1	944.8	892.6	868.1	840.3	850.7	836.8
72.5°	7157.8	1659.6	753.1	920.4	976.2	941.4	847.2	808.9	784.5	794.9	774.0
75°	5798.1	1286.5	620.6	798.4	923.9	923.9	801.9	749.6	721.7	721.7	697.3
77.5°	3695.7	951.8	505.5	662.4	829.8	899.5	763.5	683.4	641.5	631.1	613.6
80°	1830.4	669.4	414.9	526.5	707.8	843.7	735.7	606.7	547.4	526.5	495.1
82.5°	972.7	463.7	331.2	411.4	564.8	760.1	700.8	523.0	449.8	418.4	383.5
85°	435.8	285.9	265.0	313.8	428.8	624.1	631.1	428.8	345.2	411.4	303.3
87.5°	160.4	129.0	129.0	160.4	247.5	261.5	446.3	275.4	219.7	149.9	118.5
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)