

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: P237070

Luminaire Tested: **ARCH-L-AF72-170-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-170-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21259.7 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

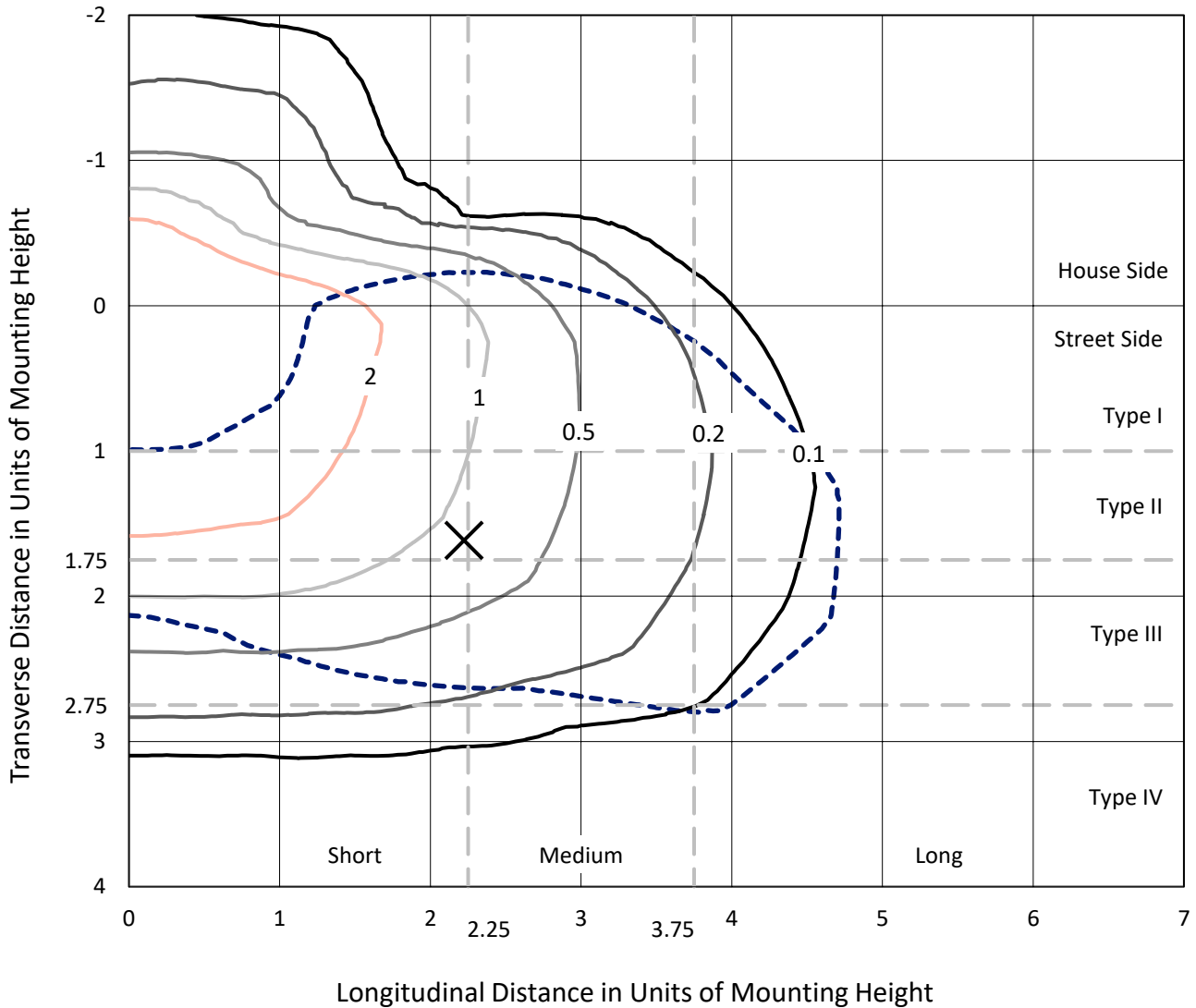
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

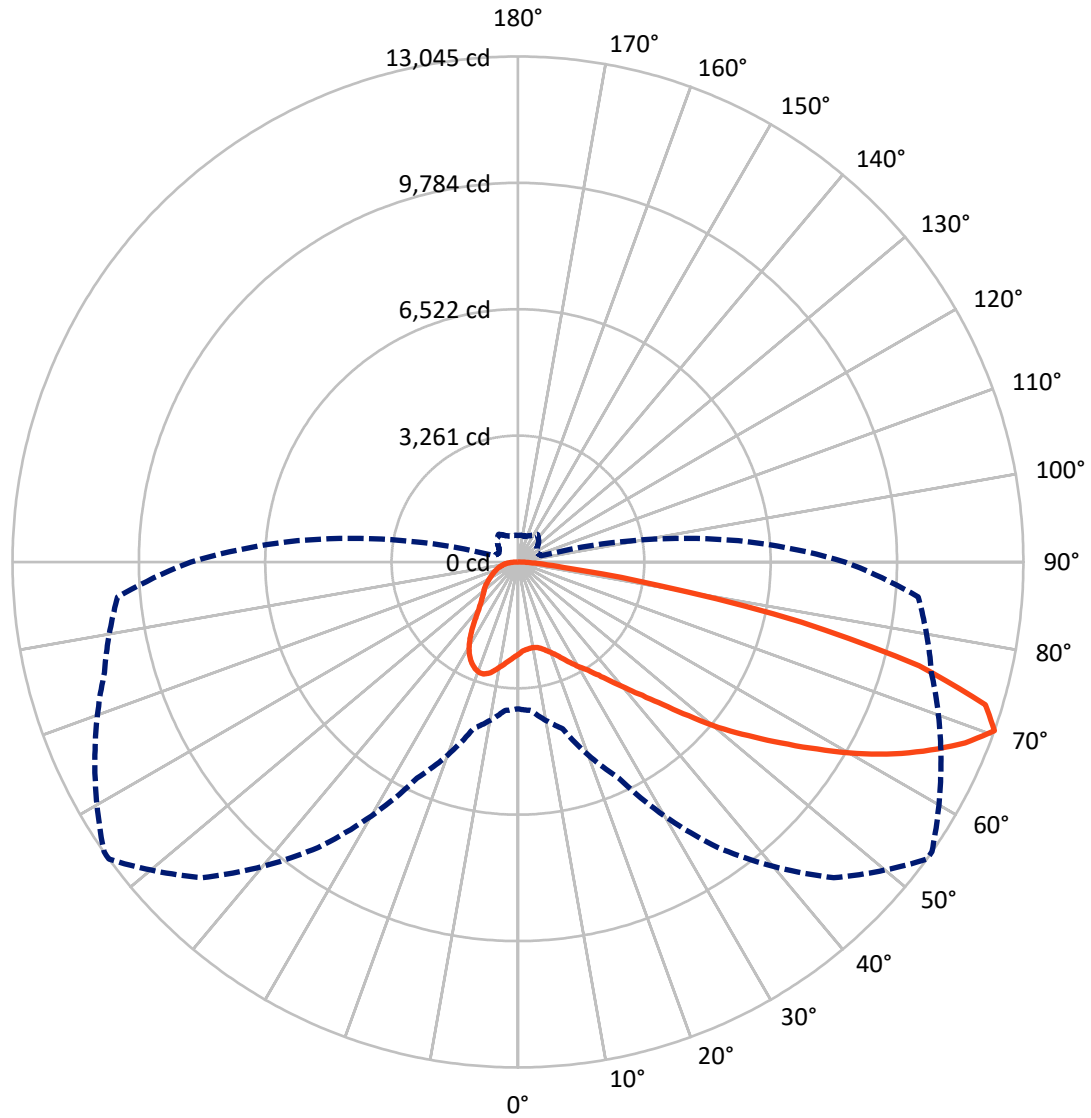
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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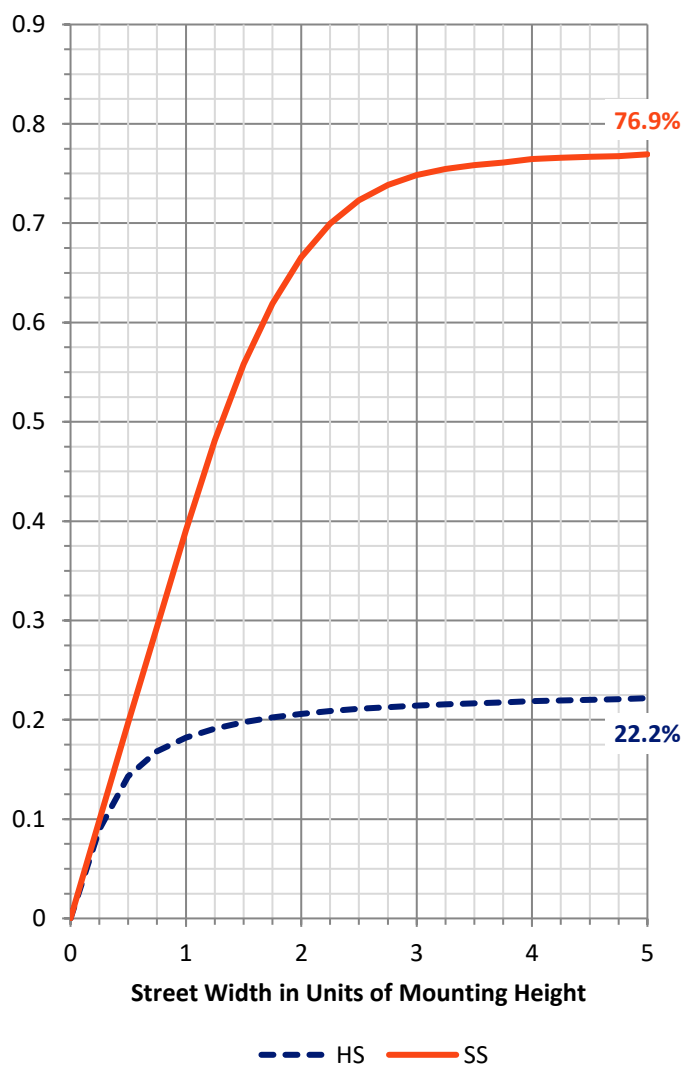
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4821.6	0.0	4821.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	16438.0	0.0	16438.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	21259.7	0.0	21259.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	1.1
10°-20°	745.9	3.5
20°-30°	1295.8	6.1
30°-40°	1893.7	8.9
40°-50°	2972.0	14.0
50°-60°	4570.3	21.5
60°-70°	5583.8	26.3
70°-80°	3461.9	16.3
80°-90°	502.9	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°	21259.7	100.0
0°-180°	21259.7	100.0

Coefficient of Utilization

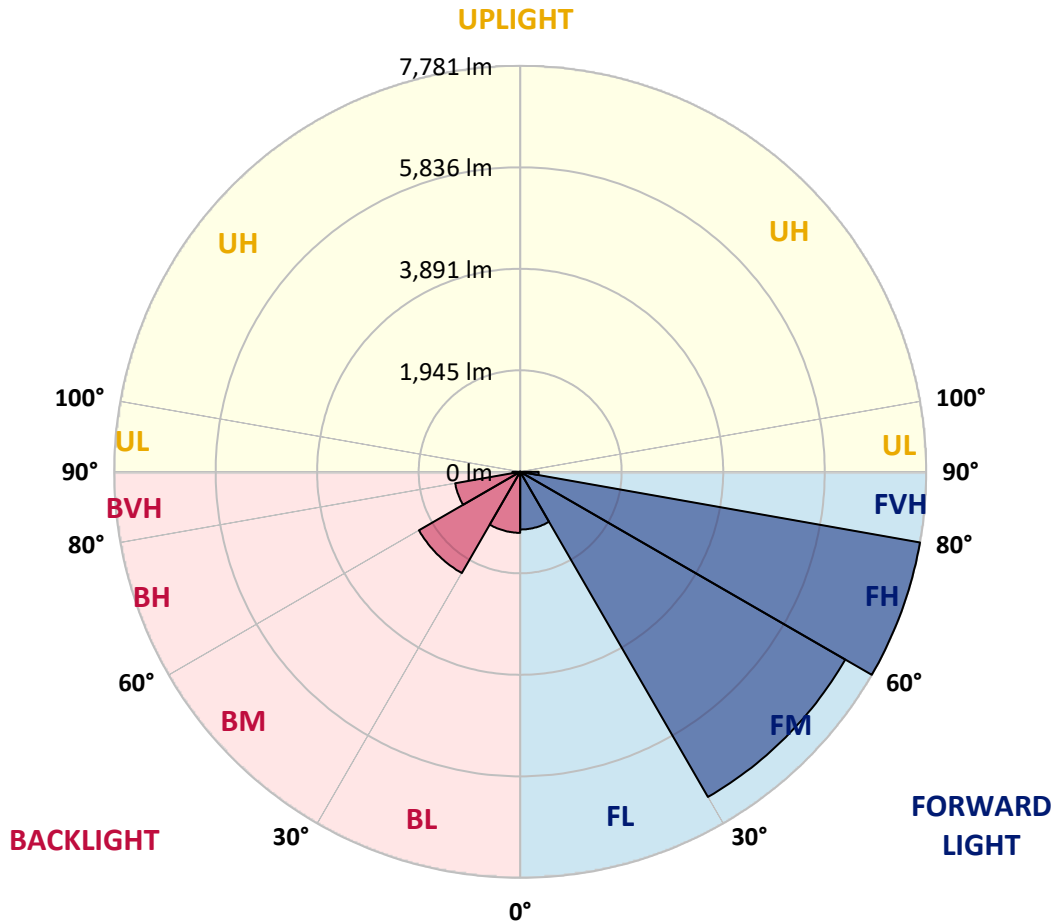


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.1	5.2			
FM (30°-60°)	7195.4	33.8			
FH (60°-80°)	7781.4	36.6			G4/12000
FVH (80°-90°)	355.1	1.7			G3/500
BL (0°-30°)	1168.9	5.5	B3/2500		
BM (30°-60°)	2240.5	10.5	B2/2500		
BH (60°-80°)	1264.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	147.8	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6
2.5°	2285.0	2277.3	2277.3	2289.0	2293.0	2304.6	2304.6	2308.4	2320.1	2339.6	2363.0
5°	2215.0	2211.2	2215.0	2230.6	2238.4	2261.7	2269.6	2273.4	2296.7	2327.9	2363.0
7.5°	2145.0	2141.1	2148.8	2172.2	2195.6	2230.6	2250.0	2253.9	2289.0	2331.8	2378.6
10°	2121.6	2117.7	2129.4	2148.8	2172.2	2211.2	2242.3	2246.2	2296.7	2347.4	2413.5
12.5°	2152.7	2148.8	2160.5	2179.9	2203.3	2230.6	2265.6	2269.6	2335.8	2401.8	2472.0
15°	2230.6	2230.6	2234.5	2246.2	2269.6	2293.0	2324.1	2327.9	2398.0	2475.9	2546.0
17.5°	2351.3	2343.5	2343.5	2339.6	2355.2	2366.9	2405.8	2409.7	2483.7	2553.7	2623.8
20°	2499.2	2495.3	2479.7	2460.3	2456.3	2464.2	2503.1	2507.0	2580.9	2639.3	2705.5
22.5°	2678.3	2682.2	2647.2	2604.3	2584.8	2596.5	2631.5	2635.5	2690.0	2740.5	2799.0
25°	2915.7	2904.1	2853.5	2791.1	2752.2	2752.2	2787.3	2787.3	2837.9	2869.0	2907.9
27.5°	3141.5	3118.2	3071.5	2981.9	2919.6	2931.3	2966.4	2966.4	3013.1	3024.8	3044.2
30°	3386.8	3363.4	3305.0	3192.1	3110.4	3102.6	3145.5	3141.5	3203.8	3199.8	3184.4
32.5°	3686.5	3674.8	3577.4	3433.5	3324.5	3297.2	3336.1	3340.0	3379.0	3367.3	3316.7
35°	4106.9	4103.0	4013.5	3760.4	3616.5	3565.9	3589.1	3589.1	3616.5	3585.4	3499.7
37.5°	4636.4	4644.2	4566.3	4192.6	3990.1	3904.5	3908.4	3904.5	3912.3	3877.3	3787.7
40°	5165.8	5185.2	5181.4	4729.9	4472.8	4324.9	4270.4	4262.6	4282.1	4266.6	4181.0
42.5°	5862.7	5909.3	5800.3	5391.6	5103.5	4854.4	4706.5	4687.0	4729.9	4749.3	4667.5
45°	6586.7	6571.1	6399.9	6104.0	5843.1	5523.9	5243.7	5212.5	5243.7	5302.1	5216.4
47.5°	6964.3	6952.6	6909.8	6761.8	6722.9	6357.0	5932.7	5905.5	5847.0	5928.9	5827.6
50°	7587.2	7598.9	7423.6	7408.1	7571.5	7369.1	6711.2	6649.0	6543.9	6610.0	6524.4
52.5°	8038.7	7988.2	7879.1	8015.4	8525.3	8416.4	7443.1	7415.9	7318.5	7303.0	7264.0
55°	8221.6	8221.6	8241.1	8556.4	9284.5	9140.4	8237.3	8264.5	8132.1	8023.1	8073.7
57.5°	8276.2	8299.6	8466.9	8988.5	10175.9	9704.9	9113.1	9152.1	8961.3	8743.4	8902.9
60°	8007.6	8077.6	8478.6	9233.8	10678.0	10304.4	10035.8	10047.5	9771.0	9451.8	9732.2
62.5°	7318.5	7404.2	8120.4	9335.0	10596.3	10919.5	10907.8	10935.0	10557.4	10160.3	10510.6
65°	6473.8	6559.5	7322.4	9050.8	10534.0	11359.3	11705.8	11779.8	11293.1	10759.9	10997.3
67.5°	5232.0	5344.9	6069.0	8093.3	10230.4	11721.4	12453.2	12531.1	11861.5	11071.2	10954.5
70°	3791.7	3846.2	4453.4	6150.6	8992.5	11522.8	13044.9	13041.0	12048.3	11047.9	10370.6
72.5°	1825.7	1868.6	2394.1	3818.8	6431.0	9778.8	12616.7	12690.7	11791.4	10709.3	9035.3
75°	751.2	794.1	969.3	1611.7	3375.1	6462.1	10693.6	10868.8	10709.3	9611.4	7069.4
77.5°	467.2	482.7	568.3	833.1	1541.5	3016.9	7485.9	7723.4	8486.3	7700.0	4667.5
80°	350.4	362.0	424.4	583.9	973.2	1113.4	3717.6	4017.5	5142.4	4418.3	2113.8
82.5°	291.9	295.9	338.7	424.4	661.8	638.4	1191.3	1327.5	2398.0	1685.7	728.0
85°	272.5	280.2	303.6	303.6	420.4	401.0	494.4	517.8	696.8	576.2	253.1
87.5°	140.2	132.3	268.6	237.4	218.0	194.6	210.3	225.8	260.8	276.4	112.9
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°	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6
2.5°	2370.7	2382.4	2401.8	2421.3	2444.6	2472.0	2487.5	2507.0	2522.6	2514.8	2510.9
5°	2382.4	2401.8	2444.6	2483.7	2530.3	2584.8	2619.9	2658.9	2690.0	2697.7	2686.0
7.5°	2401.8	2436.9	2495.3	2565.4	2627.6	2697.7	2752.2	2806.8	2845.6	2853.5	2853.5
10°	2448.6	2487.5	2565.4	2658.9	2732.8	2806.8	2869.0	2911.9	2946.8	2962.4	2962.4
12.5°	2514.8	2561.5	2654.9	2767.9	2849.6	2919.6	2954.7	2974.1	2989.7	3005.2	3009.2
15°	2592.6	2643.2	2756.2	2876.8	2962.4	2997.5	2997.5	2993.6	2993.6	3001.4	3009.2
17.5°	2670.6	2725.0	2841.8	2970.2	3024.8	3005.2	2978.1	2966.4	2958.5	2954.7	2966.4
20°	2752.2	2806.8	2923.6	3044.2	3028.6	2946.8	2907.9	2880.7	2857.3	2845.6	2861.3
22.5°	2841.8	2892.4	3013.1	3094.8	2978.1	2853.5	2779.4	2736.6	2697.7	2674.3	2690.0
25°	2946.8	2997.5	3114.3	3110.4	2888.5	2713.4	2596.5	2526.4	2483.7	2460.3	2460.3
27.5°	3071.5	3114.3	3227.2	3071.5	2763.9	2526.4	2355.2	2289.0	2277.3	2257.9	2257.9
30°	3199.8	3234.9	3332.3	2981.9	2592.6	2281.3	2094.4	2063.3	2067.0	2047.6	2051.6
32.5°	3332.3	3367.3	3394.5	2849.6	2370.7	2004.8	1880.3	1856.9	1853.0	1837.4	1821.9
35°	3519.1	3569.7	3402.4	2670.6	2102.1	1775.1	1685.7	1662.3	1638.9	1584.4	1584.4
37.5°	3803.4	3857.8	3382.8	2448.6	1825.7	1596.1	1514.4	1483.2	1444.3	1389.8	1370.3
40°	4192.6	4192.6	3340.0	2199.5	1603.8	1452.0	1374.2	1335.2	1292.4	1237.9	1226.2
42.5°	4651.9	4543.0	3273.9	1946.5	1440.4	1354.7	1284.7	1241.8	1191.3	1128.9	1121.1
45°	5189.2	4893.2	3180.4	1720.7	1319.7	1296.4	1253.5	1179.6	1093.9	1027.7	1016.0
47.5°	5710.8	5208.6	3091.0	1561.0	1218.5	1273.0	1237.9	1113.4	996.6	903.1	891.4
50°	6283.1	5488.8	2985.8	1428.7	1140.5	1257.3	1218.5	1016.0	887.6	821.4	813.7
52.5°	6855.3	5773.0	2873.0	1288.5	1074.4	1226.2	1171.7	945.9	883.7	794.1	782.6
55°	7458.7	6104.0	2740.5	1132.8	996.6	1163.9	1109.4	942.1	910.9	794.1	766.9
57.5°	8046.5	6469.9	2526.4	981.0	910.9	1070.5	1086.1	918.8	852.6	786.3	755.2
60°	8696.6	6859.2	2172.2	852.6	836.9	992.7	1055.0	868.1	786.3	762.9	747.5
62.5°	9218.2	7209.6	1697.3	762.9	774.6	930.4	1016.0	836.9	759.2	739.6	735.8
65°	9444.1	7217.3	1218.5	685.2	712.4	872.0	977.1	809.7	735.8	728.0	724.1
67.5°	9206.6	6820.3	856.4	611.2	646.2	817.5	926.5	782.6	712.4	716.3	708.5
70°	8439.7	5983.2	626.7	541.1	583.9	759.2	872.0	747.5	685.2	692.9	681.2
72.5°	7061.7	4663.6	502.1	482.7	533.3	696.8	817.5	708.5	642.3	646.2	622.9
75°	5216.4	3091.0	420.4	432.1	474.9	638.4	747.5	657.8	595.6	580.0	564.5
77.5°	3102.6	1588.3	346.5	377.6	424.4	568.3	669.5	595.6	544.9	517.8	506.1
80°	1280.7	642.3	284.2	319.2	369.9	506.1	591.7	521.6	486.6	459.3	443.8
82.5°	509.9	315.3	225.8	260.8	311.4	439.9	517.8	459.3	424.4	404.8	362.0
85°	194.6	155.7	151.9	183.0	233.6	338.7	428.2	385.3	358.2	307.6	295.9
87.5°	77.9	70.0	70.0	89.5	132.3	214.1	307.6	268.6	280.2	221.9	225.8
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)