

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: P399496

Luminaire Tested: **ARCH-L-PA3-150-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-150-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21596 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

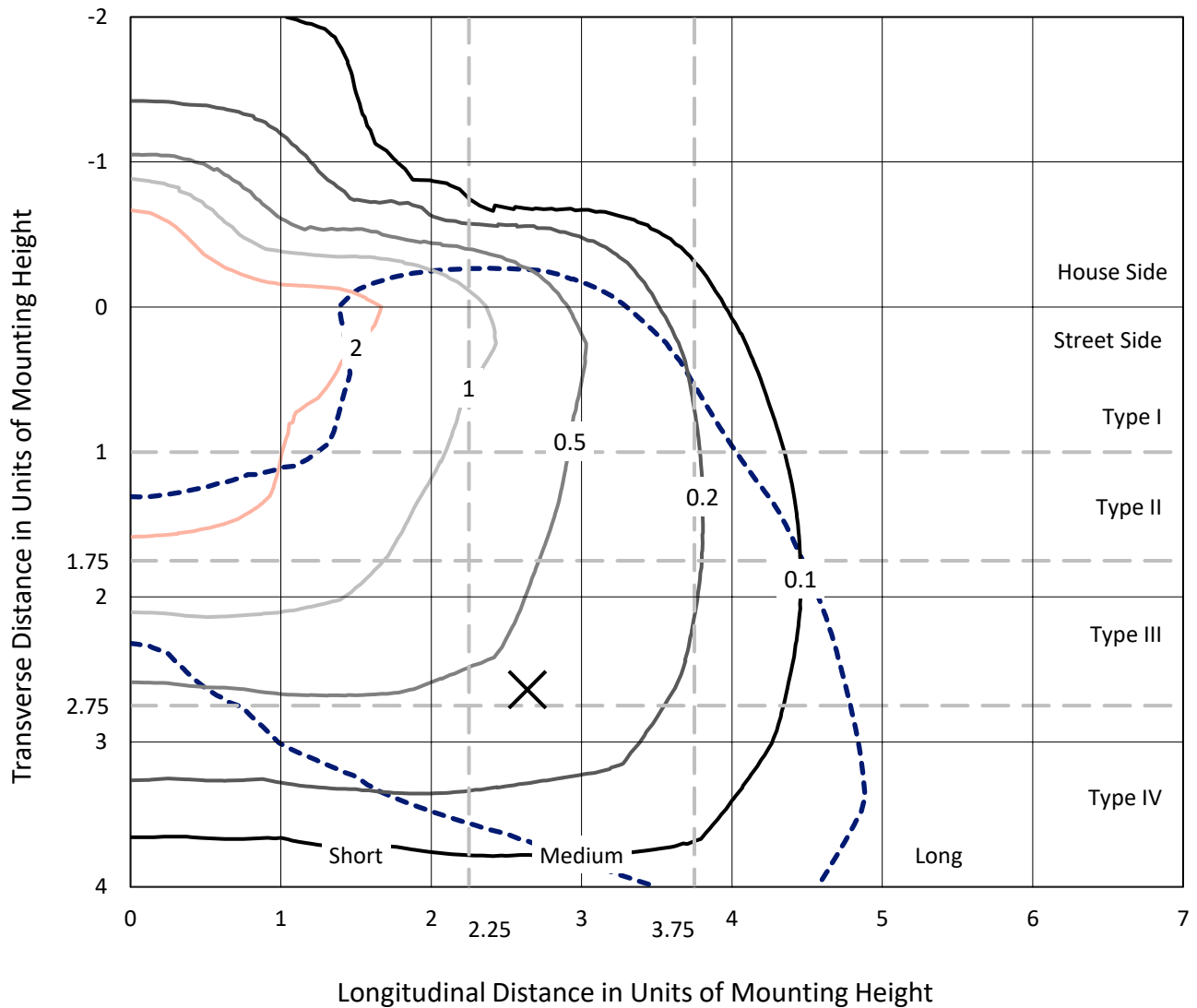
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399496
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Iso-Footcandle Lines of Horizontal Illumination

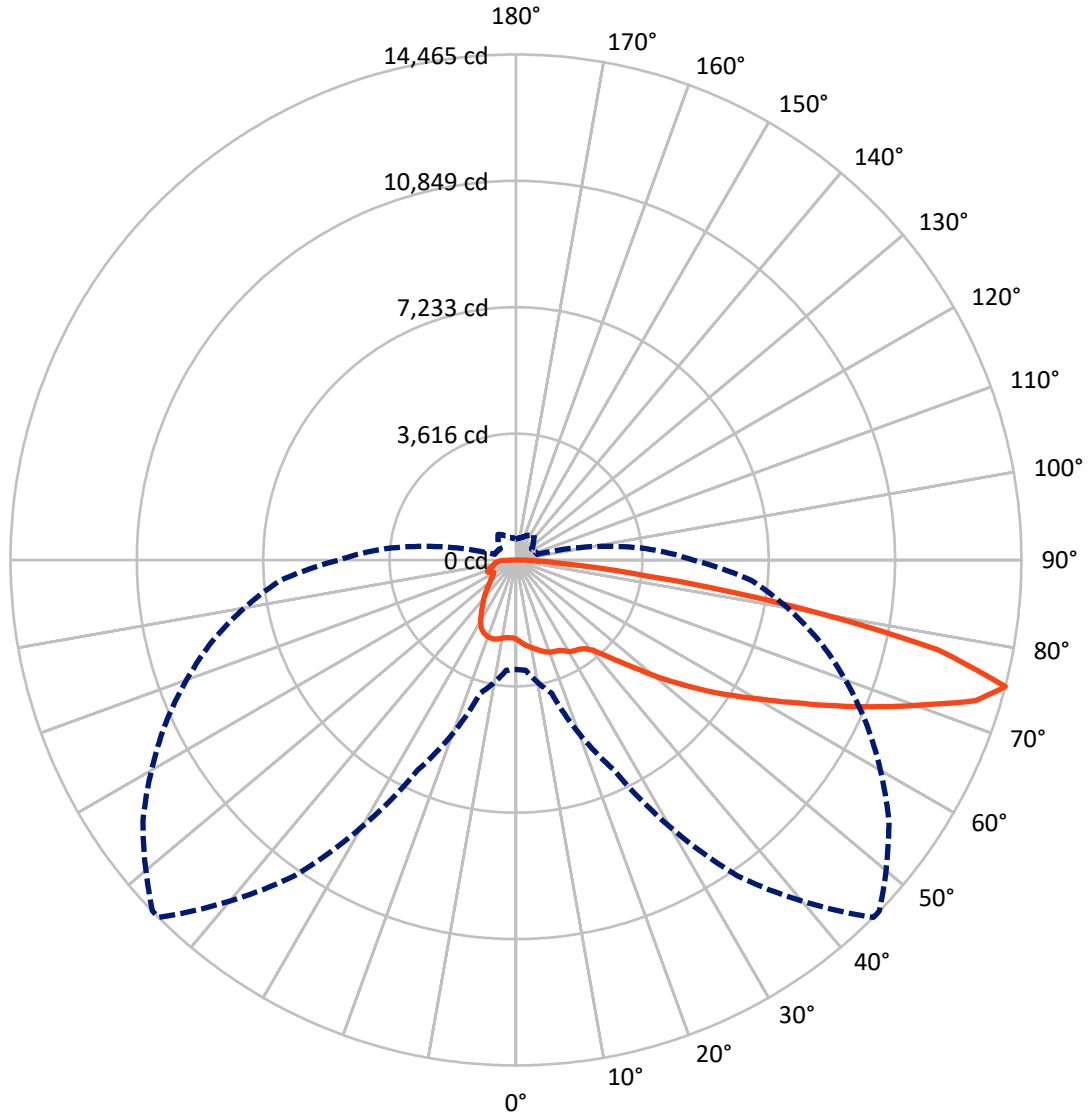
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399496
CATALOG NUMBER: ARCH-L-PA3-150-730-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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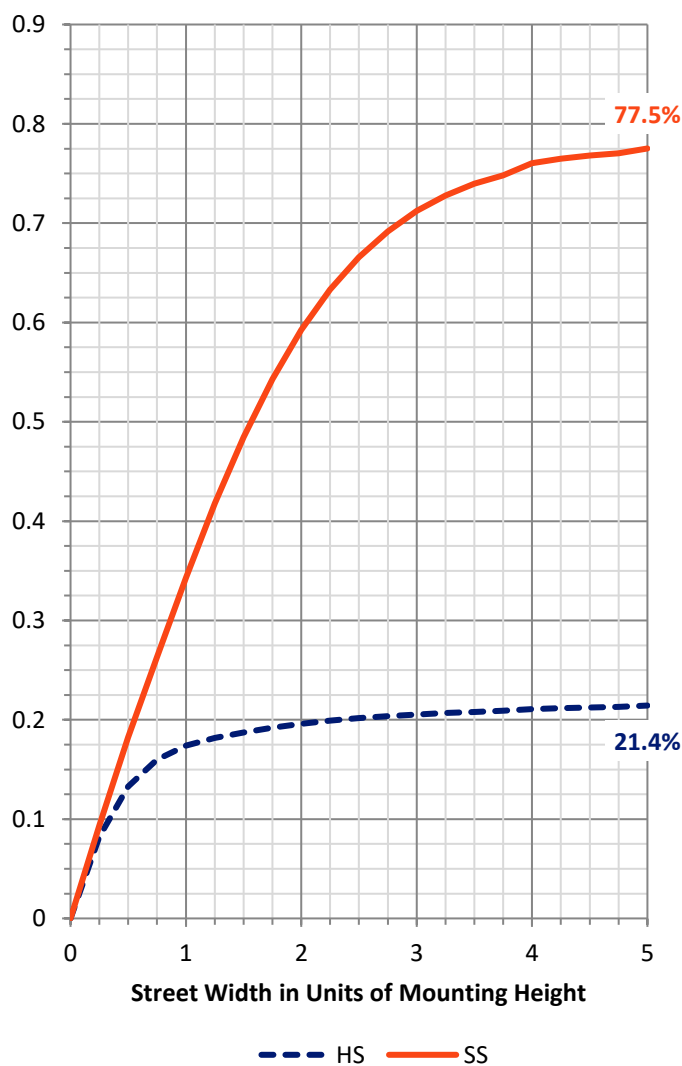
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4772.6	0.0	4772.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	16823.4	0.0	16823.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	21596.0	0.0	21596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.4	1.0
10°-20°	713.8	3.3
20°-30°	1217.0	5.6
30°-40°	1705.1	7.9
40°-50°	2505.0	11.6
50°-60°	3986.8	18.5
60°-70°	5671.2	26.3
70°-80°	4748.5	22.0
80°-90°	824.1	3.8
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°	21596.0	100.0
0°-180°	21596.0	100.0

Coefficient of Utilization

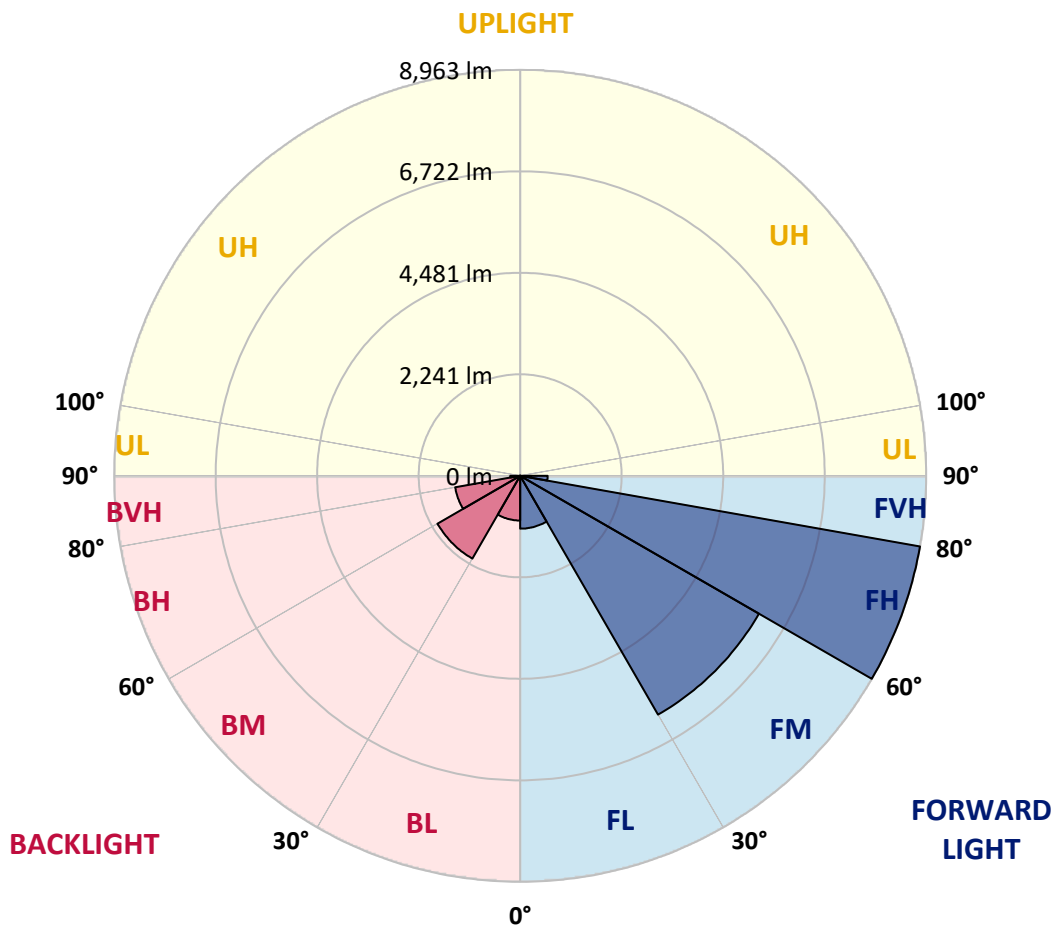


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1167.4	5.4			
FM (30°-60°)	6087.3	28.2			
FH (60°-80°)	8962.9	41.5			G4/12000
FVH (80°-90°)	605.9	2.8			G4/750
BL (0°-30°)	987.7	4.6	B2/1000		
BM (30°-60°)	2109.7	9.8	B2/2500		
BH (60°-80°)	1456.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	218.2	1.0			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2268.1	2268.1	2268.1	2268.1	2268.1	2268.1	2268.1	2268.1	2268.1	2268.1	2268.1
2.5°	2397.9	2386.4	2380.6	2380.6	2357.5	2343.1	2340.2	2320.0	2302.7	2285.4	2270.9
5°	2536.4	2527.8	2510.4	2496.0	2464.3	2423.9	2418.1	2374.8	2331.5	2291.1	2256.5
7.5°	2663.4	2646.1	2625.9	2597.0	2545.1	2490.2	2481.6	2421.0	2360.4	2299.8	2253.6
10°	2770.1	2752.8	2724.0	2683.6	2617.2	2550.8	2542.2	2478.7	2415.2	2343.1	2276.7
12.5°	2871.1	2856.7	2813.4	2758.6	2680.7	2620.1	2611.4	2556.6	2490.2	2409.4	2322.9
15°	2957.7	2943.3	2897.1	2833.6	2744.2	2698.0	2686.5	2634.5	2568.2	2481.6	2392.1
17.5°	3001.0	3001.0	2951.9	2882.7	2799.0	2764.4	2755.7	2692.2	2631.6	2548.0	2458.5
20°	3015.4	3021.2	2986.6	2902.9	2830.7	2816.3	2807.7	2755.7	2686.5	2605.7	2522.0
22.5°	3024.1	3035.6	3006.8	2911.5	2850.9	2842.3	2836.5	2801.9	2747.1	2669.1	2585.5
25°	3052.9	3052.9	3032.7	2926.0	2876.9	2874.0	2874.0	2853.8	2816.3	2749.9	2666.3
27.5°	3096.2	3093.3	3067.4	2957.7	2934.6	2943.3	2940.4	2937.5	2911.5	2845.2	2755.7
30°	3168.3	3168.3	3139.5	3021.2	3006.8	3044.3	3047.2	3052.9	3012.5	2908.6	2836.5
32.5°	3278.0	3266.5	3237.6	3084.7	3061.6	3096.2	3102.0	3099.1	3064.5	2966.4	2931.7
35°	3615.6	3589.6	3485.8	3226.1	3110.6	3130.8	3133.7	3148.1	3153.9	3076.0	3058.7
37.5°	4207.2	4172.5	4013.8	3560.8	3266.5	3217.4	3214.5	3252.0	3283.8	3214.5	3214.5
40°	4850.6	4821.8	4729.4	4137.9	3555.0	3393.4	3381.9	3416.5	3456.9	3407.8	3422.3
42.5°	5404.7	5427.7	5436.4	4749.6	3987.8	3722.4	3690.6	3641.6	3705.1	3661.8	3719.5
45°	5820.2	5808.6	5967.3	5375.8	4547.6	4135.0	4091.7	3959.0	4039.8	4036.9	4163.9
47.5°	6261.7	6241.5	6307.8	5964.5	5185.4	4640.0	4573.6	4377.4	4498.6	4582.3	4792.9
50°	6680.1	6685.8	6708.9	6429.0	5877.9	5254.6	5170.9	4908.3	5081.5	5257.5	5554.7
52.5°	7225.4	7185.1	7156.2	6971.5	6654.1	5895.2	5840.4	5540.3	5782.7	5990.4	6385.8
55°	7701.6	7675.6	7658.3	7649.6	7303.4	6602.2	6544.5	6232.8	6582.0	6729.1	7312.0
57.5°	8209.4	8195.0	8287.3	8434.5	8296.0	7320.7	7260.1	6960.0	7349.5	7453.4	8316.2
60°	8581.7	8590.3	8844.3	9219.4	9124.2	8099.8	8027.6	7762.2	8096.9	8189.2	9320.4
62.5°	8584.6	8671.1	9259.8	9932.1	10041.8	8997.2	8913.5	8624.9	8864.4	8864.4	10220.7
65°	7765.1	7863.2	9184.7	10108.1	10970.9	10064.8	9984.0	9531.0	9620.5	9499.3	11066.1
67.5°	6948.4	7063.9	8307.5	10122.6	11623.0	11207.5	11112.3	10437.1	10284.1	9978.3	11657.7
70°	6405.9	6486.7	7525.5	9935.0	12015.5	12402.2	12330.0	11297.0	10806.4	10379.4	11533.6
72.5°	5393.1	5364.3	6356.9	9043.4	12234.8	13758.4	13697.8	12231.9	11259.5	10188.9	9836.9
75°	3130.8	3165.5	3944.6	6625.3	11028.6	14465.3	14459.6	13031.2	11060.4	9000.1	6778.2
77.5°	903.2	929.2	1295.6	2911.5	6974.4	12338.7	12734.0	11917.4	9349.2	6414.6	3514.6
80°	395.3	415.5	562.7	969.5	3003.9	8059.4	8405.6	8059.4	5638.4	2943.3	1379.3
82.5°	233.7	248.2	366.5	600.2	1439.9	3834.9	4302.4	3757.0	2432.5	1249.4	571.3
85°	132.7	138.5	210.6	380.9	906.1	1341.8	1506.3	1411.0	1186.0	709.8	300.1
87.5°	60.6	63.5	103.9	178.9	507.9	453.0	470.3	623.3	686.8	432.8	150.0
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: P399496
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2268.1	2268.1	2268.1	2268.1	2268.1	2268.1	2268.1	2268.1	2268.1	2268.1	2268.1
2.5°	2265.2	2256.5	2239.2	2233.4	2224.8	2227.7	2230.5	2230.5	2233.4	2224.8	2224.8
5°	2242.1	2227.7	2210.3	2210.3	2210.3	2233.4	2253.6	2265.2	2270.9	2270.9	2265.2
7.5°	2233.4	2216.1	2195.9	2201.7	2207.5	2236.3	2273.8	2311.3	2322.9	2322.9	2317.1
10°	2250.7	2233.4	2219.0	2227.7	2242.1	2265.2	2294.0	2328.6	2357.5	2360.4	2357.5
12.5°	2291.1	2270.9	2256.5	2273.8	2291.1	2305.6	2320.0	2334.4	2371.9	2377.7	2377.7
15°	2357.5	2337.3	2320.0	2334.4	2340.2	2340.2	2340.2	2340.2	2377.7	2383.5	2383.5
17.5°	2423.9	2406.6	2389.2	2392.1	2374.8	2351.7	2343.1	2340.2	2360.4	2377.7	2380.6
20°	2487.4	2472.9	2455.6	2426.8	2383.5	2340.2	2325.8	2325.8	2337.3	2363.3	2363.3
22.5°	2556.6	2539.3	2510.4	2444.1	2371.9	2311.3	2296.9	2305.6	2320.0	2354.6	2351.7
25°	2634.5	2611.4	2562.4	2438.3	2334.4	2262.3	2265.2	2291.1	2317.1	2354.6	2354.6
27.5°	2721.1	2689.3	2591.2	2392.1	2250.7	2181.5	2207.5	2268.1	2305.6	2346.0	2351.7
30°	2816.3	2787.5	2614.3	2311.3	2115.1	2051.6	2115.1	2213.2	2270.9	2308.5	2317.1
32.5°	2931.7	2908.6	2634.5	2207.5	1939.1	1884.3	1976.6	2097.8	2190.1	2233.4	2242.1
35°	3076.0	3052.9	2660.5	2089.1	1774.6	1716.9	1800.6	1924.7	2045.9	2100.7	2118.0
37.5°	3263.6	3228.9	2683.6	1962.2	1636.1	1569.7	1610.1	1722.7	1832.3	1907.4	1927.6
40°	3503.1	3448.2	2703.8	1817.9	1514.9	1439.9	1454.3	1509.1	1572.6	1639.0	1665.0
42.5°	3840.7	3731.0	2706.7	1665.0	1390.8	1321.6	1315.8	1333.1	1333.1	1333.1	1341.8
45°	4311.0	4103.3	2712.4	1520.7	1263.9	1191.7	1174.4	1168.7	1125.4	1041.7	1035.9
47.5°	4905.5	4590.9	2738.4	1399.5	1131.1	1067.7	1044.6	1021.5	940.7	854.1	836.8
50°	5667.2	5156.5	2790.3	1284.1	1018.6	975.3	946.5	891.6	802.2	735.8	718.5
52.5°	6544.5	5828.8	2839.4	1162.9	934.9	906.1	871.4	805.1	709.8	669.5	663.7
55°	7551.5	6579.1	2937.5	1056.1	862.8	842.6	810.8	747.4	675.2	646.4	643.5
57.5°	8581.7	7418.8	3076.0	960.9	793.5	782.0	782.0	727.2	681.0	669.5	669.5
60°	9574.3	8140.2	2969.2	871.4	730.0	735.8	790.6	776.2	741.6	756.0	764.7
62.5°	10344.7	8564.4	2409.4	799.3	683.9	735.8	877.2	877.2	836.8	831.0	831.0
65°	10673.7	8558.6	1693.8	744.5	666.6	808.0	978.2	932.0	825.3	784.9	776.2
67.5°	10590.0	8183.5	1168.7	707.0	660.8	883.0	1024.4	894.5	773.3	738.7	712.7
70°	9854.2	7389.9	900.3	672.3	652.1	851.2	1009.9	851.2	732.9	701.2	678.1
72.5°	7949.7	5926.9	747.4	637.7	617.5	787.8	960.9	810.8	701.2	666.6	643.5
75°	5069.9	3728.1	631.9	591.5	551.1	707.0	894.5	770.4	666.6	620.4	603.1
77.5°	2438.3	1607.3	551.1	536.7	496.3	655.0	828.2	718.5	620.4	582.9	571.3
80°	986.9	735.8	479.0	481.9	455.9	623.3	782.0	669.5	574.2	533.8	513.6
82.5°	513.6	427.1	404.0	415.5	415.5	594.4	747.4	629.1	533.8	516.5	450.1
85°	277.0	265.5	311.6	334.7	360.7	536.7	695.4	585.8	487.7	418.4	404.0
87.5°	135.6	173.1	176.0	202.0	251.0	429.9	585.8	490.5	406.9	337.6	331.8
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)