

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: P399422

Luminaire Tested: **ARCH-L-PA3-140-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-140-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20469 lumens
Efficiency: N/A
Efficacy: 143.1 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

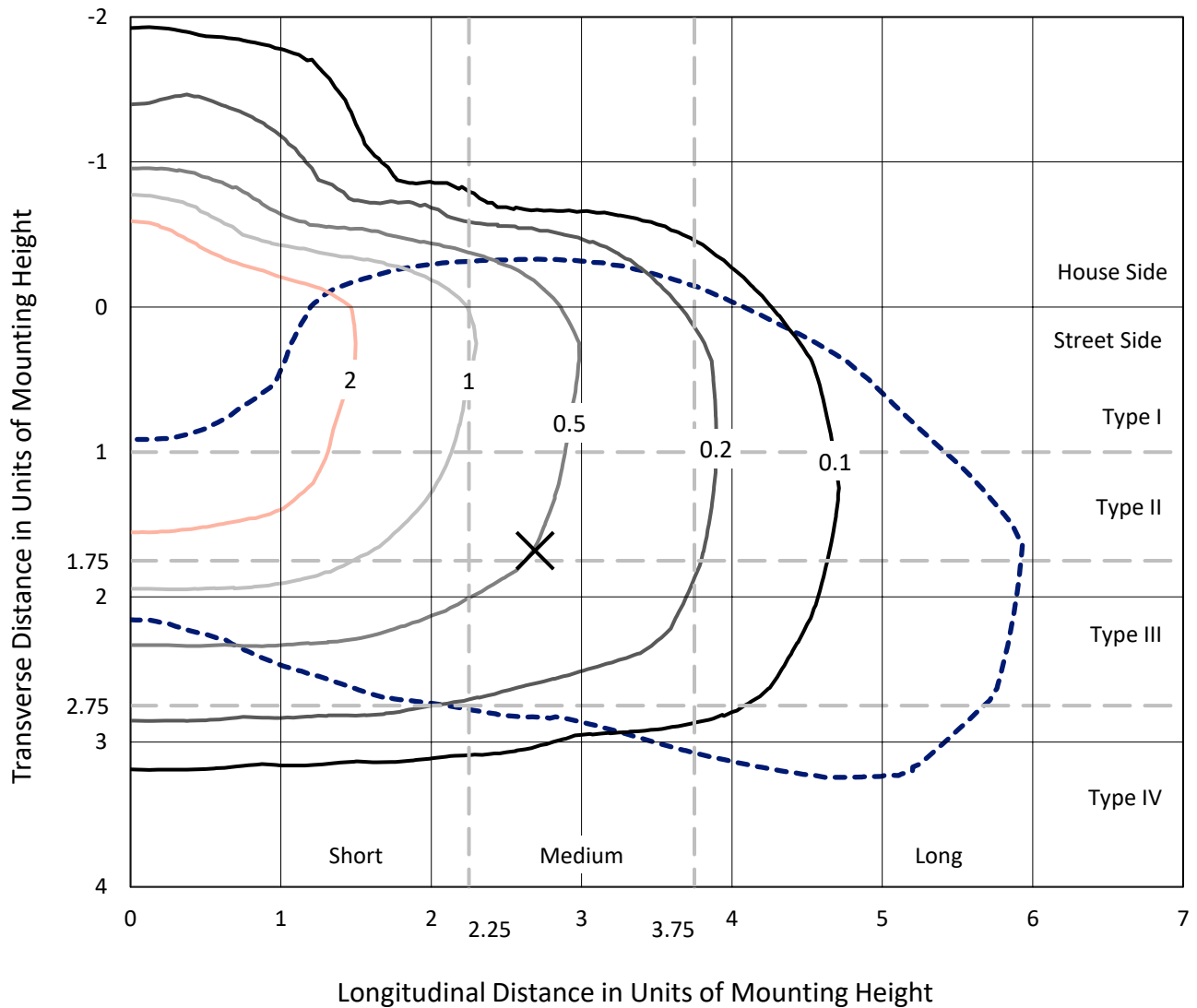
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

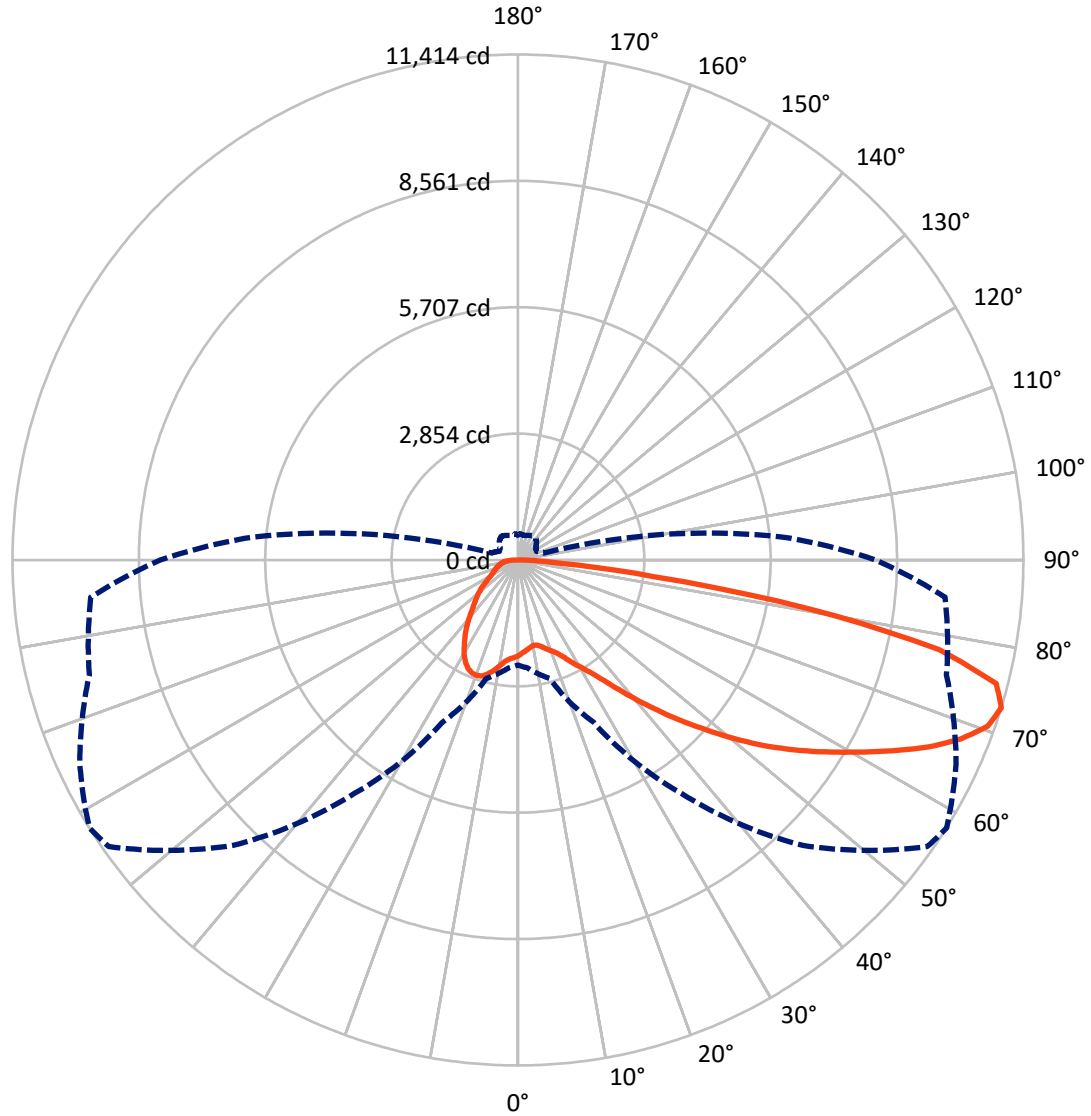
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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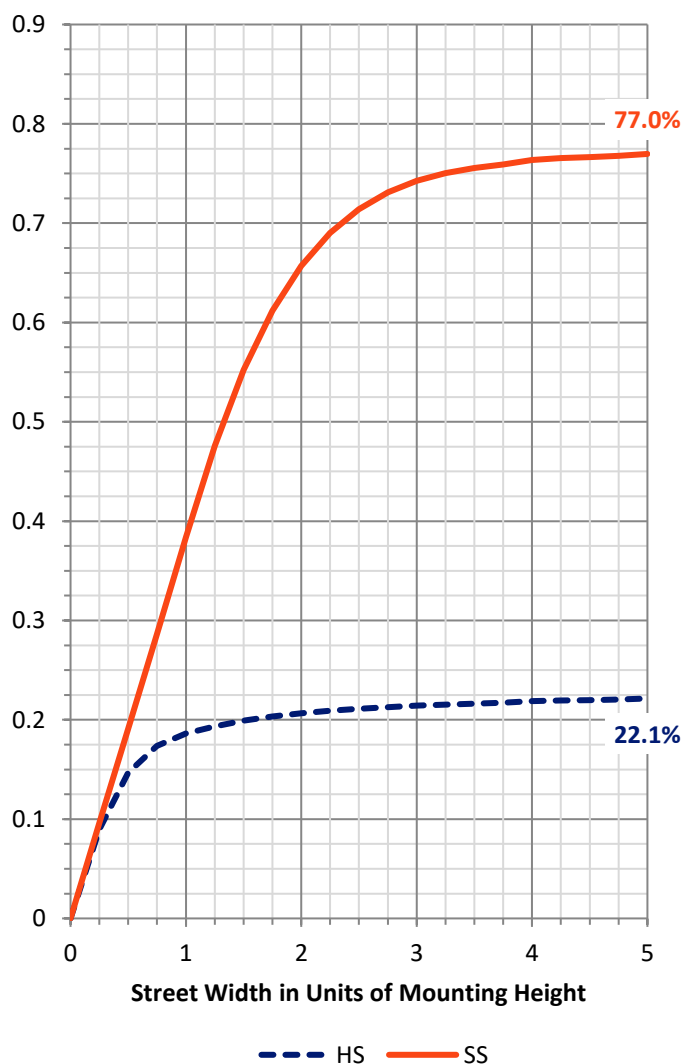
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4642.1	0.0	4642.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	15826.9	0.0	15826.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	20469.0	0.0	20469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	1.0
10°-20°	660.5	3.2
20°-30°	1183.2	5.8
30°-40°	1779.8	8.7
40°-50°	2882.2	14.1
50°-60°	4338.6	21.2
60°-70°	5106.1	24.9
70°-80°	3620.7	17.7
80°-90°	689.9	3.4
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°	20469.0	100.0
0°-180°	20469.0	100.0

Coefficient of Utilization



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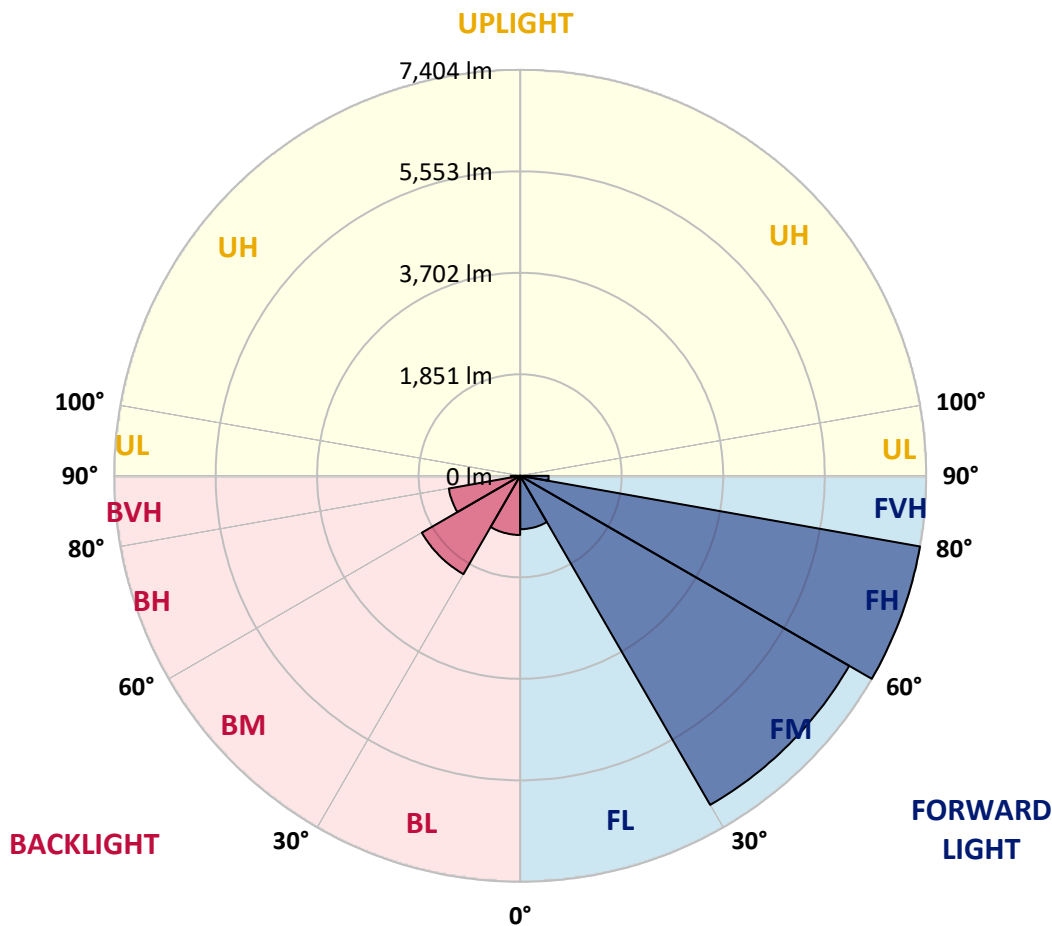
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	973.4	4.8			
FM (30°-60°)	6929.3	33.9			
FH (60°-80°)	7403.7	36.2			G3/7500
FVH (80°-90°)	520.4	2.5			G4/750
BL (0°-30°)	1078.3	5.3	B3/2500		
BM (30°-60°)	2071.3	10.1	B2/2500		
BH (60°-80°)	1323.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	169.5	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0
2.5°	2078.0	2067.2	2069.9	2069.9	2080.7	2086.1	2088.8	2096.9	2102.3	2115.8	2134.7
5°	1980.7	1972.6	1975.3	1978.0	1996.9	2015.8	2032.0	2042.9	2059.1	2080.7	2107.7
7.5°	1910.4	1905.0	1907.7	1913.1	1929.4	1951.0	1978.0	1994.2	2018.5	2059.1	2105.0
10°	1859.1	1859.1	1861.8	1872.6	1888.8	1915.8	1937.5	1956.4	2005.0	2078.0	2148.2
12.5°	1818.6	1818.6	1826.7	1848.3	1875.3	1902.3	1953.7	1975.3	2040.1	2140.1	2223.9
15°	1815.9	1818.6	1821.3	1840.2	1869.9	1929.4	2005.0	2037.4	2115.8	2234.7	2332.0
17.5°	1859.1	1861.8	1851.0	1856.4	1891.5	1975.3	2075.3	2113.1	2213.1	2342.8	2442.8
20°	1991.5	1991.5	1959.1	1929.4	1953.7	2045.6	2159.0	2196.9	2307.7	2450.9	2550.9
22.5°	2261.7	2275.2	2199.6	2134.7	2096.9	2148.2	2250.9	2291.5	2415.8	2569.8	2669.8
25°	2588.7	2602.2	2499.5	2407.6	2337.4	2329.3	2396.8	2440.1	2542.8	2702.2	2786.0
27.5°	2904.8	2880.5	2786.0	2699.5	2610.3	2537.3	2588.7	2626.5	2745.4	2867.0	2918.4
30°	3153.4	3134.5	3042.7	2980.5	2896.7	2802.2	2772.4	2813.0	2910.3	3023.7	3050.8
32.5°	3429.1	3415.6	3323.7	3242.6	3172.4	3083.2	3018.3	3037.3	3091.3	3172.4	3188.6
35°	3780.4	3810.1	3712.8	3548.0	3469.6	3383.1	3337.2	3342.6	3383.1	3434.5	3407.5
37.5°	4150.6	4185.7	4191.1	3931.7	3826.3	3747.9	3699.3	3718.2	3766.8	3802.0	3718.2
40°	4836.9	4801.8	4661.3	4469.4	4307.3	4231.6	4164.1	4161.4	4196.5	4258.6	4107.3
42.5°	5747.5	5715.1	5431.4	5182.8	4926.1	4839.6	4707.2	4650.5	4666.7	4745.0	4534.3
45°	6620.3	6606.8	6379.9	6090.7	5782.7	5615.1	5312.5	5174.7	5161.2	5223.3	4972.0
47.5°	7395.9	7336.4	7171.6	6947.3	6914.9	6477.1	5920.5	5734.0	5669.2	5704.3	5423.3
50°	8225.4	8022.8	7795.8	7658.0	7893.1	7485.0	6533.9	6339.3	6179.9	6204.2	5912.4
52.5°	8665.9	8325.4	8176.8	8217.3	8533.5	8376.8	7201.3	6963.5	6706.8	6741.9	6398.8
55°	8287.6	8284.9	8349.7	8601.0	9041.5	8860.5	7836.3	7568.8	7287.8	7295.9	6958.1
57.5°	7768.8	7874.2	8209.2	8763.2	9671.1	9368.5	8460.5	8176.8	7920.1	7879.6	7593.1
60°	7295.9	7412.1	7898.5	8736.2	9890.0	9833.2	9055.0	8806.4	8598.3	8479.5	8260.6
62.5°	6577.1	6663.6	7352.6	8563.2	9706.2	10168.3	9657.6	9487.4	9330.6	9084.7	8979.4
65°	5731.3	5761.1	6487.9	7993.1	9476.6	10298.0	10257.5	10181.8	10030.5	9668.4	9690.0
67.5°	4815.3	4874.7	5512.5	7082.4	8974.0	10238.6	10722.3	10784.4	10606.1	10062.9	10144.0
70°	3839.8	3912.8	4396.5	5823.2	8120.1	9981.9	11151.9	11251.9	10908.7	10192.6	10227.8
72.5°	2375.2	2445.5	2769.7	4045.2	6436.6	9119.9	11284.3	11414.0	10916.8	10019.7	9681.9
75°	821.5	829.6	1083.6	1940.2	3820.9	6885.2	10852.0	11157.3	10573.6	9390.1	8425.4
77.5°	375.6	389.1	481.0	799.8	1694.3	3715.5	8960.4	9725.2	9530.6	8406.5	6485.2
80°	259.4	264.8	332.4	478.3	978.2	1307.9	5655.7	6652.8	6993.3	6509.6	4156.0
82.5°	194.6	200.0	256.7	324.3	705.3	635.0	2153.6	3091.3	3842.5	3772.2	1737.5
85°	186.5	183.7	200.0	216.2	470.2	378.3	697.2	956.6	1499.7	1283.5	437.8
87.5°	81.1	89.2	205.4	121.6	245.9	175.6	302.6	354.0	456.7	397.2	156.7
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°	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0
2.5°	2142.8	2148.2	2164.4	2188.8	2202.3	2229.3	2248.2	2259.0	2267.1	2269.8	2269.8
5°	2123.9	2134.7	2169.9	2210.4	2248.2	2305.0	2356.3	2386.0	2407.6	2415.8	2418.5
7.5°	2129.3	2156.3	2207.7	2267.1	2315.8	2388.7	2450.9	2510.3	2559.0	2577.9	2577.9
10°	2180.7	2218.5	2288.7	2367.1	2429.3	2504.9	2569.8	2621.1	2677.9	2710.3	2715.7
12.5°	2259.0	2305.0	2396.8	2483.3	2553.6	2613.0	2672.5	2710.3	2737.3	2761.6	2767.0
15°	2369.8	2426.6	2518.4	2607.6	2669.8	2707.6	2723.8	2723.8	2721.1	2723.8	2729.2
17.5°	2480.6	2534.6	2626.5	2715.7	2745.4	2723.8	2704.9	2699.5	2696.8	2691.4	2694.1
20°	2588.7	2640.0	2718.4	2786.0	2761.6	2686.0	2661.7	2658.9	2650.8	2645.4	2640.0
22.5°	2696.8	2734.6	2799.5	2823.8	2726.5	2618.4	2588.7	2572.5	2561.7	2548.2	2534.6
25°	2821.1	2831.9	2880.5	2842.7	2640.0	2494.1	2450.9	2426.6	2415.8	2402.2	2391.4
27.5°	2937.3	2937.3	2945.4	2813.0	2513.0	2329.3	2264.4	2221.2	2218.5	2215.8	2213.1
30°	3042.7	3029.1	3002.1	2723.8	2348.2	2126.6	2029.3	1986.1	2002.3	2015.8	2018.5
32.5°	3167.0	3139.9	3064.3	2602.2	2150.9	1899.6	1780.7	1761.8	1780.7	1797.0	1786.1
35°	3361.5	3312.9	3129.1	2461.7	1961.8	1691.6	1578.1	1551.1	1545.6	1542.9	1521.3
37.5°	3639.8	3556.1	3180.5	2310.4	1775.3	1507.8	1424.1	1367.3	1316.0	1261.9	1253.8
40°	3980.3	3837.1	3215.6	2137.4	1578.1	1353.8	1264.6	1191.7	1105.2	1010.6	999.8
42.5°	4353.2	4139.7	3231.8	1945.6	1405.1	1226.8	1116.0	1024.1	926.8	853.9	840.4
45°	4755.8	4466.7	3218.3	1761.8	1264.6	1118.7	994.4	894.4	816.1	764.7	753.9
47.5°	5147.7	4842.3	3180.5	1615.9	1156.5	1026.8	899.8	808.0	748.5	691.8	678.2
50°	5650.3	5201.7	3134.5	1502.4	1037.6	935.0	840.4	743.1	675.5	648.5	643.1
52.5°	6206.9	5561.1	3080.5	1359.2	921.4	862.0	802.5	716.1	694.5	643.1	635.0
55°	6809.5	5988.0	3069.7	1178.2	818.8	810.7	764.7	740.4	745.8	643.1	629.6
57.5°	7444.5	6444.7	3094.0	997.1	735.0	764.7	780.9	762.0	753.9	656.6	629.6
60°	8106.5	6885.2	3021.0	829.6	670.1	726.9	799.8	751.2	691.8	651.2	632.3
62.5°	8749.7	7255.4	2704.9	710.7	621.5	716.1	789.0	710.7	643.1	643.1	635.0
65°	9217.1	7420.2	2115.8	624.2	589.1	702.6	770.1	683.7	629.6	648.5	637.7
67.5°	9271.2	7250.0	1421.3	556.6	562.1	678.2	726.9	659.3	616.1	664.7	648.5
70°	8938.8	6806.8	870.1	505.3	526.9	635.0	689.1	635.0	597.2	651.2	626.9
72.5°	8076.8	5979.9	613.4	462.1	489.1	594.5	653.9	613.4	570.2	589.1	564.8
75°	6625.8	4634.2	486.4	421.5	451.3	556.6	624.2	581.0	537.7	529.6	513.4
77.5°	4693.7	2969.7	391.8	389.1	410.7	510.7	583.7	543.1	499.9	483.7	472.9
80°	2699.5	1456.5	337.8	351.3	372.9	464.8	535.0	499.9	459.4	435.1	418.8
82.5°	1032.2	508.0	297.2	305.3	329.7	416.1	486.4	456.7	416.1	437.8	367.5
85°	335.1	278.3	243.2	251.3	275.6	345.9	429.6	405.3	359.4	318.9	294.5
87.5°	148.6	151.3	129.7	143.2	172.9	229.7	313.5	297.2	262.1	218.9	210.8
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)