

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: P399193

Luminaire Tested: **ARCH-L-PA3-110-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399193
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-PA3-110-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15399 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

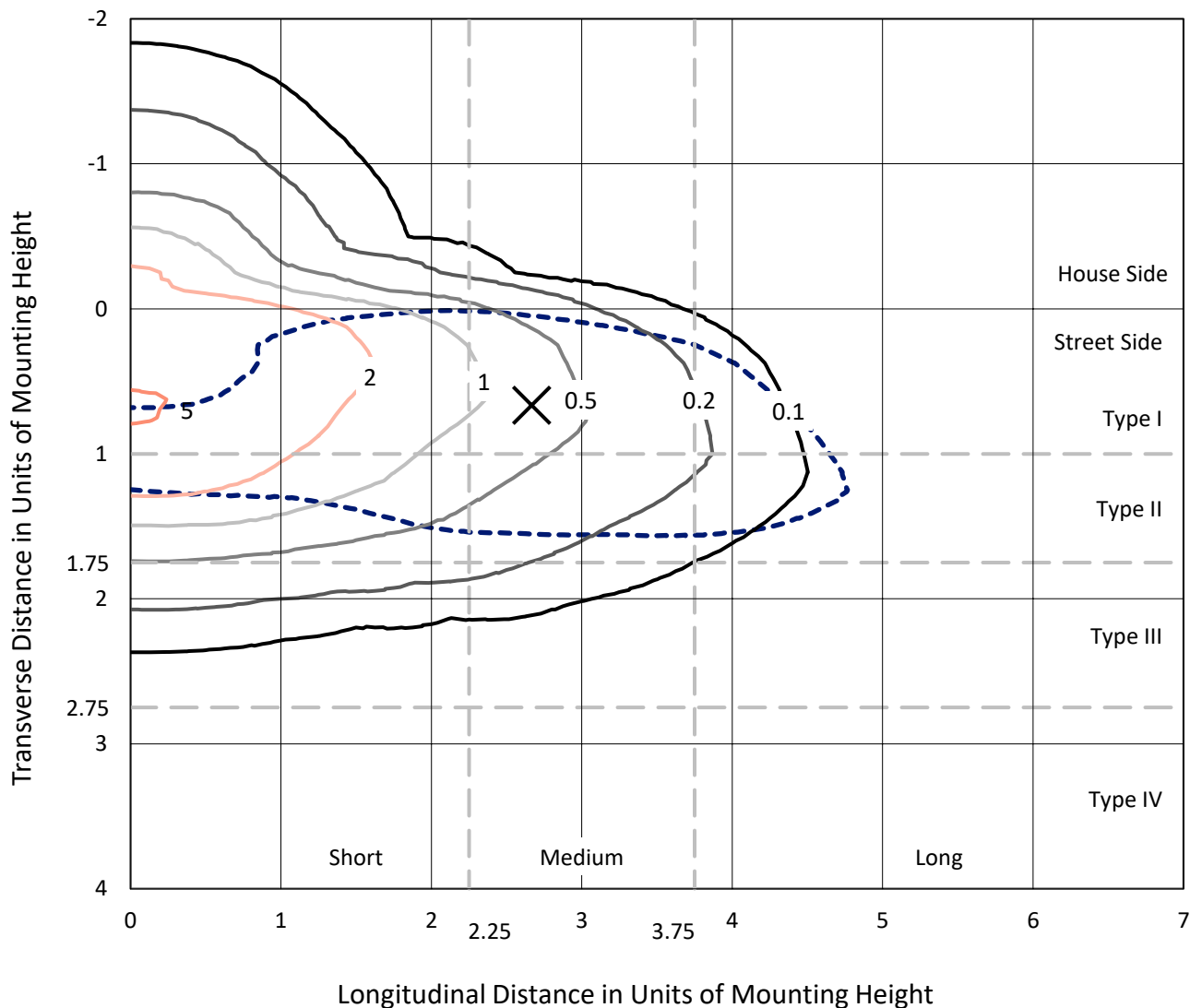
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

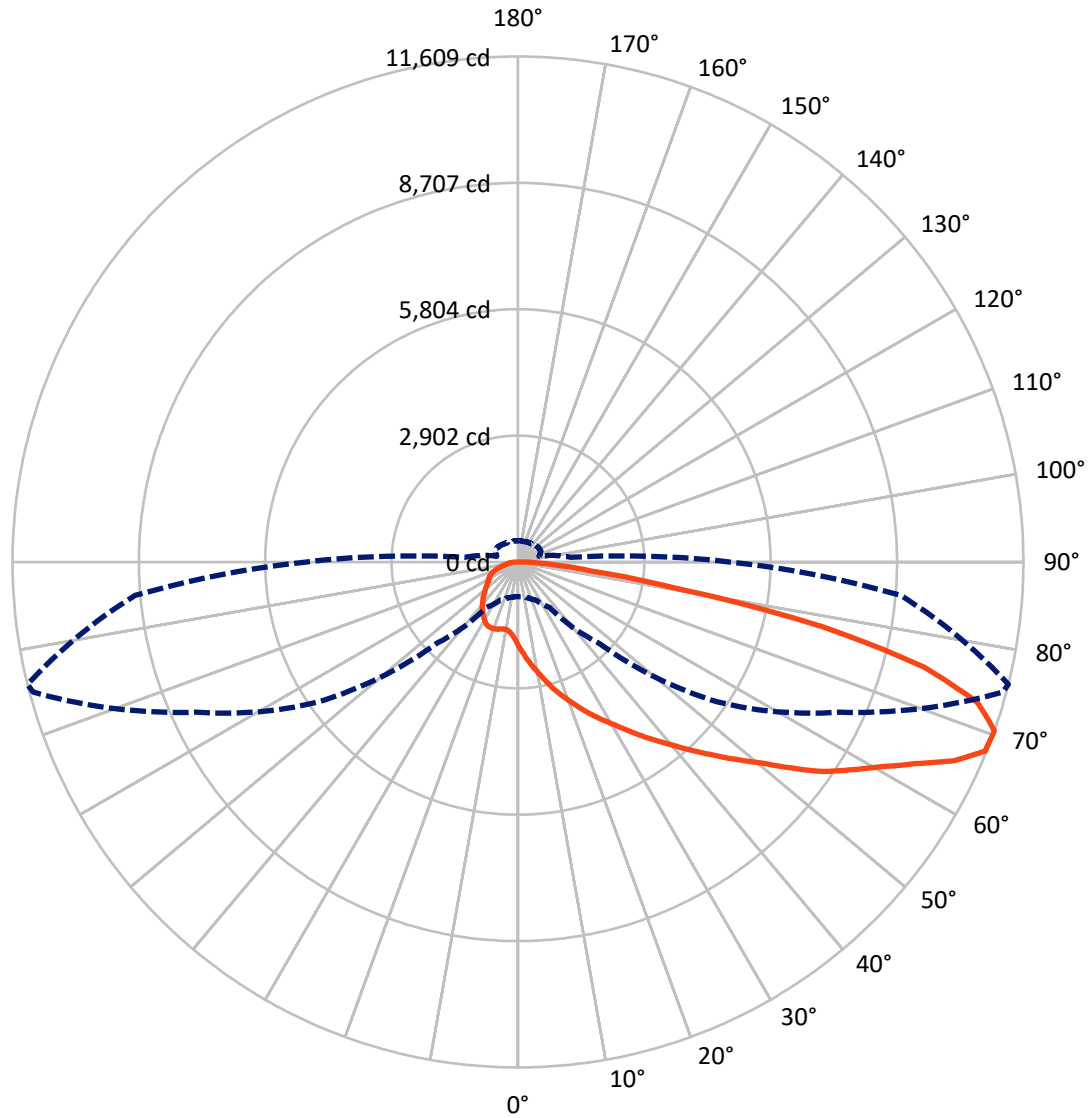
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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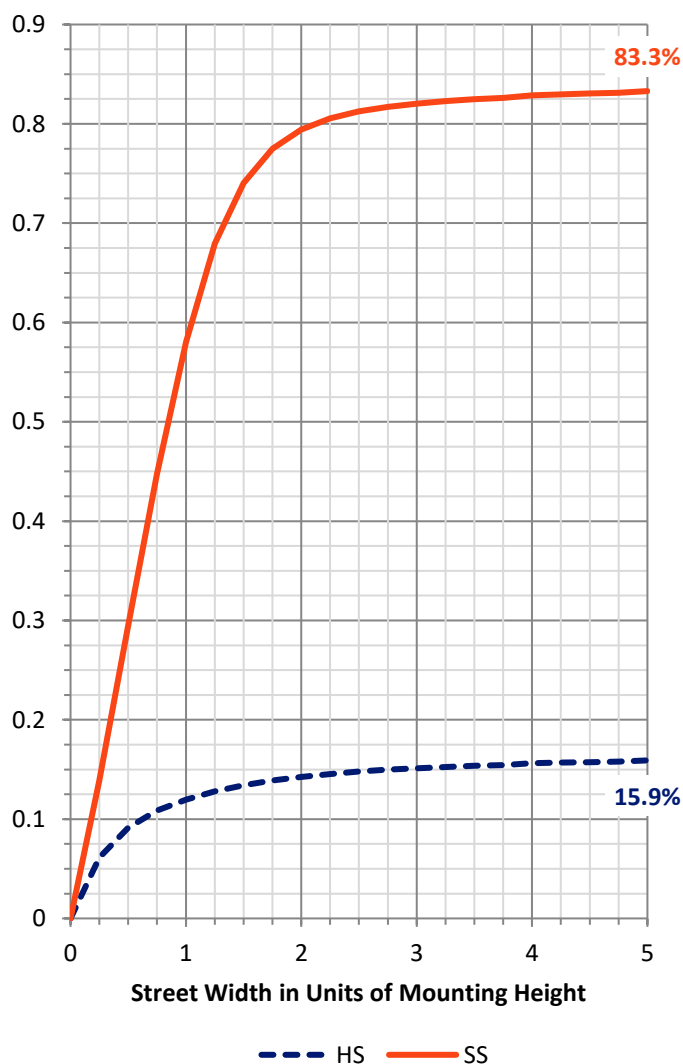
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2514.0	0.0	2514.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	12885.0	0.0	12885.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	15399.0	0.0	15399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	1.3
10°-20°	680.0	4.4
20°-30°	1216.7	7.9
30°-40°	1968.2	12.8
40°-50°	2847.2	18.5
50°-60°	3258.8	21.2
60°-70°	2997.8	19.5
70°-80°	1853.8	12.0
80°-90°	376.4	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°	15399.0	100.0
0°-180°	15399.0	100.0

Coefficient of Utilization



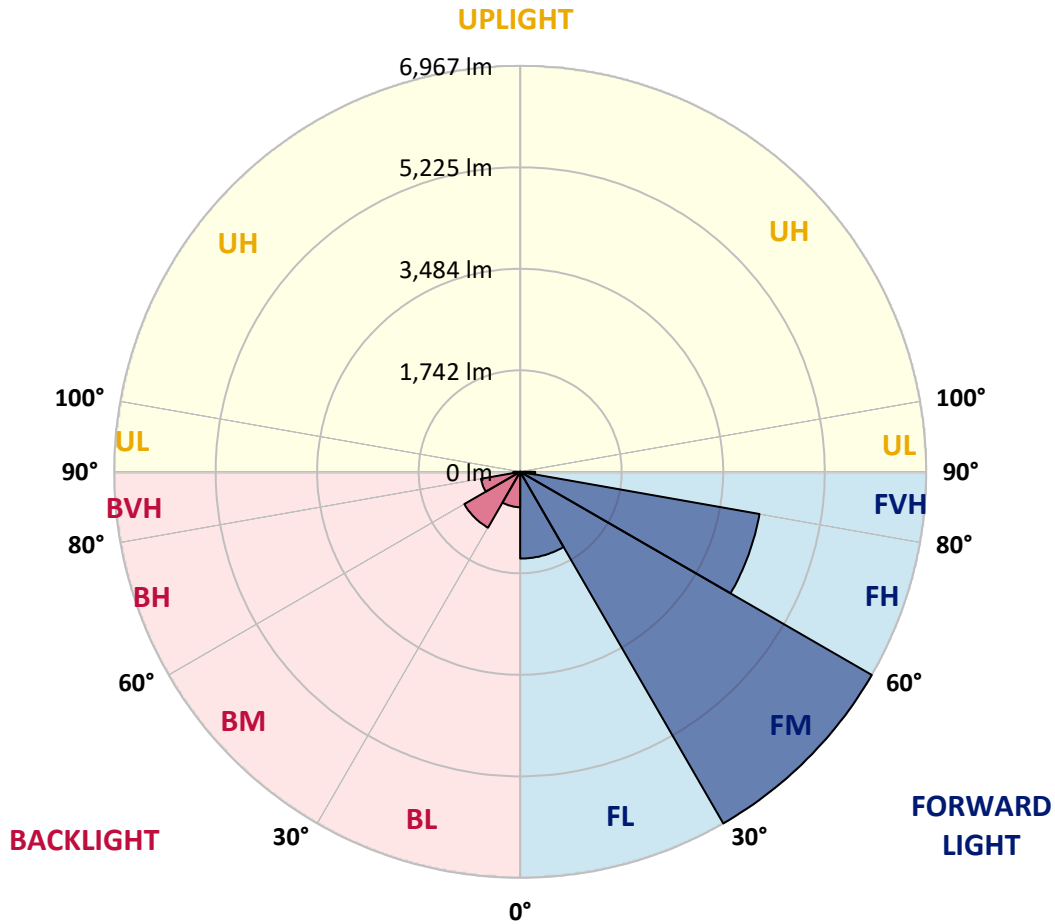
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.6	9.7			
FM (30°-60°)	6967.3	45.2			
FH (60°-80°)	4169.6	27.1			G2/5000
FVH (80°-90°)	258.4	1.7			G3/500
BL (0°-30°)	607.2	3.9	B2/1000		
BM (30°-60°)	1106.9	7.2	B2/2500		
BH (60°-80°)	681.9	4.4	B2/1000		G2/1000
BVH (80°-90°)	118.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1925.7	1925.7	1925.7	1925.7	1925.7	1925.7	1925.7	1925.7	1925.7	1925.7	1925.7
2.5°	2454.2	2436.0	2434.0	2405.6	2379.3	2308.4	2257.8	2168.7	2079.6	2077.6	1988.5
5°	2836.9	2818.7	2808.6	2774.2	2729.6	2636.5	2545.3	2407.6	2255.8	2245.7	2077.6
7.5°	3096.1	3079.9	3059.7	3045.5	3003.0	2920.0	2808.6	2644.6	2436.0	2415.7	2180.9
10°	3270.3	3260.1	3256.1	3246.0	3219.6	3152.8	3045.5	2871.4	2616.2	2593.9	2290.2
12.5°	3345.2	3341.1	3359.4	3387.7	3397.8	3371.5	3268.2	3104.2	2814.7	2790.4	2421.8
15°	3258.1	3262.2	3308.7	3405.9	3509.2	3565.9	3505.2	3345.2	3039.4	3005.0	2575.7
17.5°	3217.6	3223.7	3256.1	3349.2	3495.0	3671.2	3699.6	3574.0	3256.1	3207.5	2737.7
20°	3288.5	3296.6	3320.9	3393.8	3495.0	3683.4	3831.2	3792.7	3468.7	3418.1	2893.6
22.5°	3468.7	3478.8	3476.8	3523.4	3592.2	3721.8	3904.1	3999.2	3691.5	3634.8	3055.6
25°	3853.4	3845.3	3776.5	3754.2	3772.4	3855.5	4001.3	4197.7	3924.3	3867.6	3225.7
27.5°	4375.9	4365.8	4240.2	4126.8	4025.6	4062.0	4139.0	4357.7	4161.2	4096.4	3387.7
30°	4934.8	4922.6	4776.8	4592.5	4367.8	4315.1	4305.0	4497.4	4400.2	4331.3	3559.8
32.5°	5479.5	5469.3	5313.4	5098.8	4789.0	4631.0	4533.8	4653.3	4671.5	4604.7	3748.2
35°	5975.6	5975.6	5841.9	5586.8	5236.5	4997.5	4837.6	4845.7	4983.4	4906.4	3962.8
37.5°	6417.0	6415.0	6269.2	6018.1	5682.0	5408.6	5210.2	5078.5	5281.0	5214.2	4187.6
40°	6767.3	6753.1	6645.8	6427.1	6089.0	5817.6	5617.2	5351.9	5613.1	5552.4	4426.5
42.5°	7022.5	7014.4	6941.5	6751.1	6429.2	6174.0	6036.3	5696.1	5989.8	5929.0	4705.9
45°	7121.7	7137.9	7137.9	6957.7	6702.5	6469.7	6408.9	6074.8	6396.8	6336.0	5005.6
47.5°	6961.7	7004.2	7091.3	7103.5	6878.7	6720.8	6741.0	6455.5	6815.9	6783.5	5333.7
50°	6461.6	6540.5	6730.9	7075.1	6949.6	6913.1	7024.5	6844.3	7265.5	7255.3	5732.6
52.5°	5171.7	5364.0	5957.4	6575.0	6901.0	7002.2	7306.0	7281.7	7844.6	7860.8	6253.0
55°	3966.8	4039.7	4726.2	5777.1	6603.3	6973.9	7494.3	7708.9	8472.3	8492.6	6730.9
57.5°	3207.5	3256.1	3630.7	4726.2	5925.0	6820.0	7642.1	7958.0	8954.3	9006.9	7156.1
60°	2541.3	2612.2	2863.3	3616.5	4975.3	6449.4	7745.4	8235.4	9472.6	9551.6	7664.4
62.5°	1889.3	1923.7	2160.6	2679.0	3938.5	5783.2	7690.7	8537.1	10108.5	10203.6	8275.9
65°	1344.6	1374.9	1543.0	1905.5	2911.9	4882.1	7372.8	8761.9	10906.3	11003.5	8891.5
67.5°	1006.4	1018.5	1113.7	1332.4	1962.2	3792.7	6728.9	8723.4	11489.5	11576.5	9138.5
70°	795.8	799.8	846.4	963.9	1275.7	2640.5	5601.0	8158.5	11532.0	11608.9	8826.7
72.5°	660.1	658.1	684.4	741.1	888.9	1670.6	4149.1	7109.5	10985.3	11037.9	7956.0
75°	544.7	548.8	567.0	599.4	678.4	1101.6	2689.1	5671.8	9691.3	9634.6	6676.2
77.5°	457.6	455.6	463.7	492.1	548.8	791.7	1575.4	4098.5	7182.4	7154.1	4382.0
80°	368.5	372.6	384.7	409.0	461.7	603.4	931.5	2557.5	3853.4	3750.2	2093.8
82.5°	247.0	285.5	309.8	338.2	398.9	445.5	591.3	1300.0	1723.2	1696.9	949.7
85°	117.4	155.9	230.8	263.2	324.0	279.4	400.9	619.6	862.6	852.5	342.2
87.5°	24.3	24.3	123.5	147.8	200.5	119.5	222.7	269.3	417.1	390.8	139.7
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°	1925.7	1925.7	1925.7	1925.7	1925.7	1925.7	1925.7	1925.7	1925.7	1925.7	1925.7
2.5°	1935.8	1881.2	1771.8	1684.7	1595.6	1545.0	1482.3	1451.9	1445.8	1429.6	1441.8
5°	1970.3	1862.9	1656.4	1520.7	1429.6	1385.1	1362.8	1354.7	1352.7	1348.6	1348.6
7.5°	2016.8	1852.8	1583.5	1445.8	1387.1	1372.9	1379.0	1391.1	1393.2	1397.2	1395.2
10°	2073.5	1854.8	1543.0	1427.6	1399.2	1401.3	1421.5	1437.7	1445.8	1451.9	1449.9
12.5°	2152.5	1879.1	1536.9	1439.7	1427.6	1435.7	1455.9	1472.1	1480.2	1482.3	1482.3
15°	2255.8	1929.8	1551.1	1466.1	1455.9	1462.0	1474.2	1480.2	1482.3	1480.2	1480.2
17.5°	2369.2	1990.5	1571.3	1482.3	1466.1	1460.0	1455.9	1449.9	1437.7	1429.6	1429.6
20°	2478.5	2045.2	1581.5	1480.2	1451.9	1427.6	1403.3	1372.9	1352.7	1336.5	1336.5
22.5°	2587.9	2095.8	1581.5	1458.0	1413.4	1366.8	1316.2	1267.6	1237.2	1217.0	1217.0
25°	2703.3	2144.4	1569.3	1419.5	1352.7	1285.8	1217.0	1156.2	1125.9	1105.6	1101.6
27.5°	2800.5	2172.8	1536.9	1364.8	1277.7	1192.7	1113.7	1050.9	1028.7	1010.4	1010.4
30°	2903.8	2191.0	1476.2	1293.9	1192.7	1095.5	1014.5	963.9	939.6	913.2	911.2
32.5°	3019.2	2203.1	1407.3	1219.0	1105.6	1002.3	933.5	893.0	840.3	812.0	807.9
35°	3152.8	2219.3	1334.4	1134.0	1018.5	925.4	884.9	818.1	767.4	743.2	741.1
37.5°	3294.6	2231.5	1255.5	1059.0	939.6	874.8	834.3	755.3	710.8	674.3	670.3
40°	3444.4	2231.5	1174.5	986.1	876.8	852.5	775.5	704.7	629.8	611.5	607.5
42.5°	3610.5	2227.4	1093.5	915.3	818.1	801.9	741.1	666.2	627.7	611.5	607.5
45°	3786.6	2213.3	1016.5	834.3	757.3	724.9	678.4	658.1	641.9	641.9	641.9
47.5°	3987.1	2201.1	929.4	761.4	712.8	676.3	641.9	629.8	627.7	633.8	639.9
50°	4244.3	2197.1	856.5	708.7	678.4	635.8	631.8	621.7	623.7	623.7	623.7
52.5°	4556.1	2160.6	787.7	670.3	643.9	593.3	605.5	615.6	619.6	617.6	615.6
55°	4784.9	2095.8	729.0	643.9	619.6	577.1	593.3	609.5	613.6	607.5	607.5
57.5°	4991.5	2004.7	682.4	623.7	603.4	567.0	585.2	601.4	597.4	595.3	593.3
60°	5228.4	1917.6	646.0	613.6	587.2	562.9	579.1	589.3	583.2	579.1	577.1
62.5°	5485.5	1832.6	619.6	613.6	575.1	560.9	573.1	577.1	565.0	560.9	560.9
65°	5605.0	1698.9	591.3	613.6	569.0	556.9	560.9	556.9	544.7	544.7	542.7
67.5°	5408.6	1478.2	554.8	605.5	577.1	550.8	542.7	536.6	522.4	522.4	518.4
70°	4865.9	1215.0	502.2	579.1	579.1	548.8	518.4	504.2	488.0	494.1	486.0
72.5°	4157.2	963.9	437.4	534.6	567.0	546.7	492.1	469.8	455.6	461.7	449.5
75°	3367.5	747.2	360.4	463.7	536.6	536.6	465.7	435.4	419.2	419.2	405.0
77.5°	2146.4	552.8	293.6	384.7	481.9	522.4	443.5	396.9	372.6	366.5	356.4
80°	1063.1	388.8	241.0	305.8	411.1	490.0	427.3	352.3	317.9	305.8	287.5
82.5°	565.0	269.3	192.4	238.9	328.0	441.4	407.0	303.7	261.2	243.0	222.7
85°	253.1	166.0	153.9	182.2	249.1	362.5	366.5	249.1	200.5	238.9	176.2
87.5°	93.1	74.9	74.9	93.1	143.8	151.9	259.2	160.0	127.6	87.1	68.8
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)