

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: P236823

Luminaire Tested: **ARCH-L-AF72-100-D-U-T2R-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-100-D-U-T2R-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13711 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

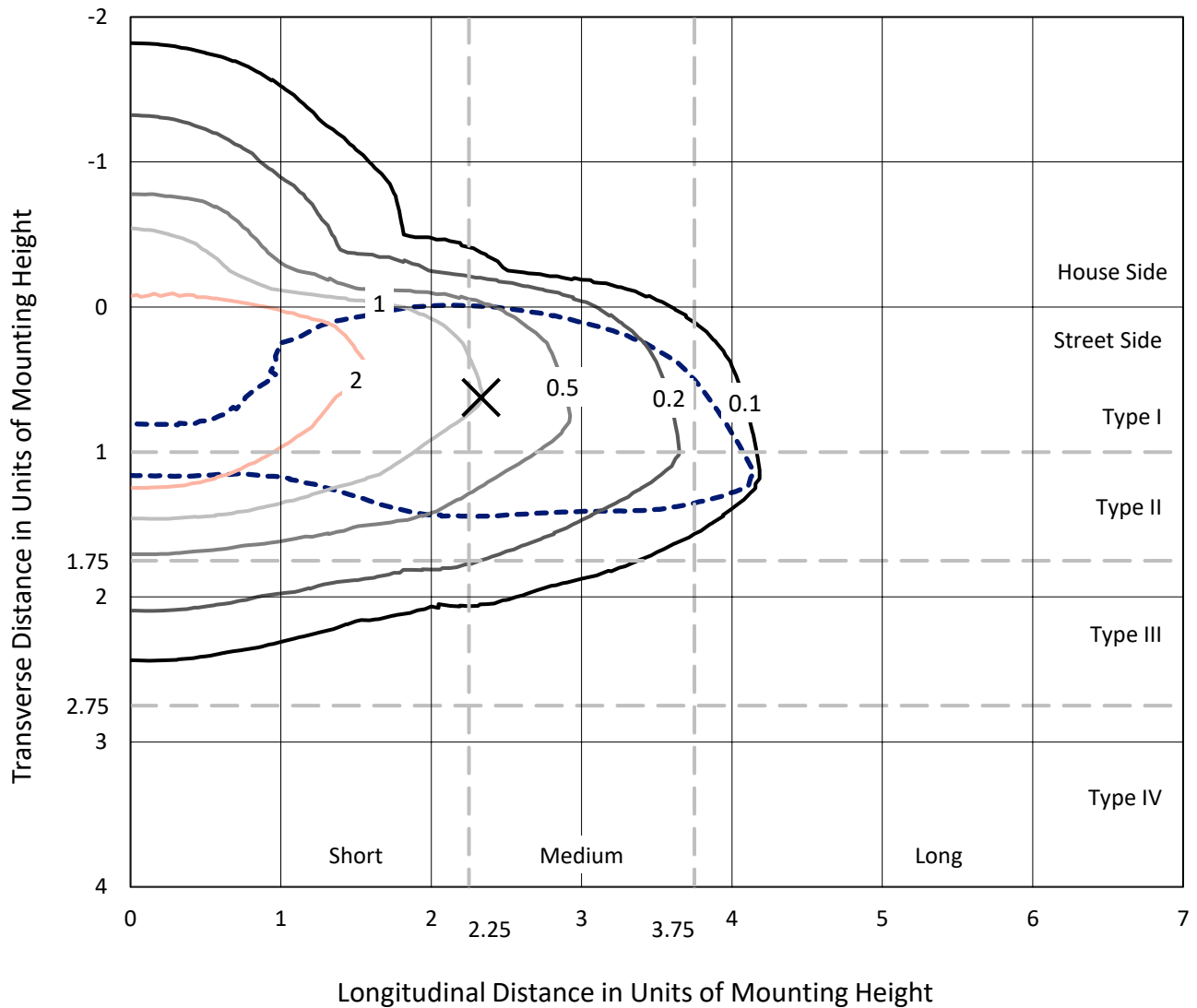
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

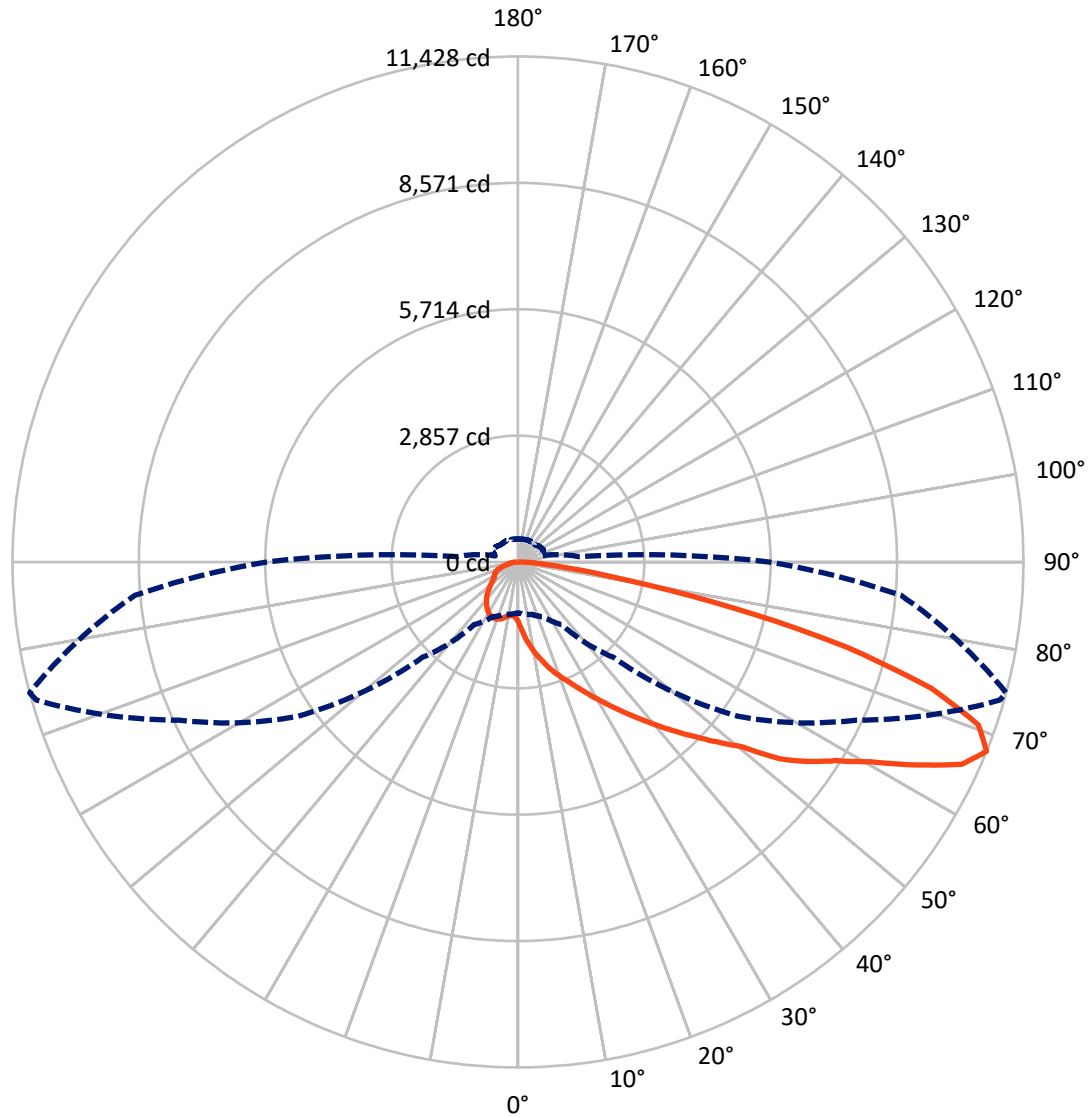
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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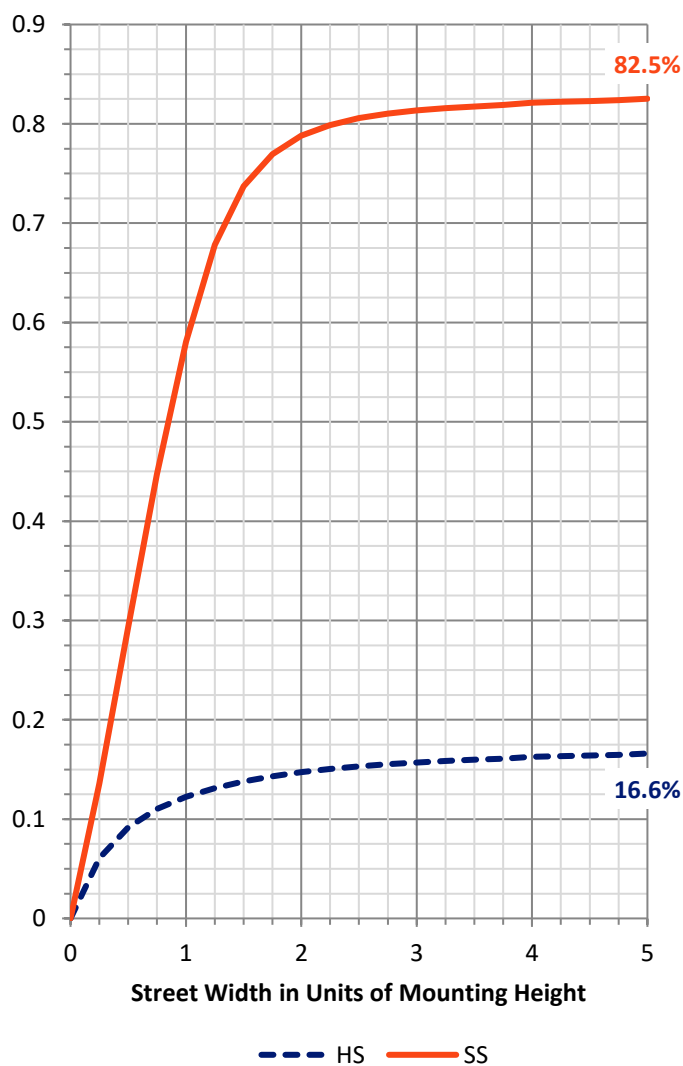
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2341.3	0.0	2341.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	11369.6	0.0	11369.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	13711.0	0.0	13711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	1.2
10°-20°	576.8	4.2
20°-30°	1052.1	7.7
30°-40°	1726.9	12.6
40°-50°	2497.3	18.2
50°-60°	2943.0	21.5
60°-70°	2859.9	20.9
70°-80°	1589.7	11.6
80°-90°	305.7	2.2
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°	13711.0	100.0
0°-180°	13711.0	100.0

Coefficient of Utilization

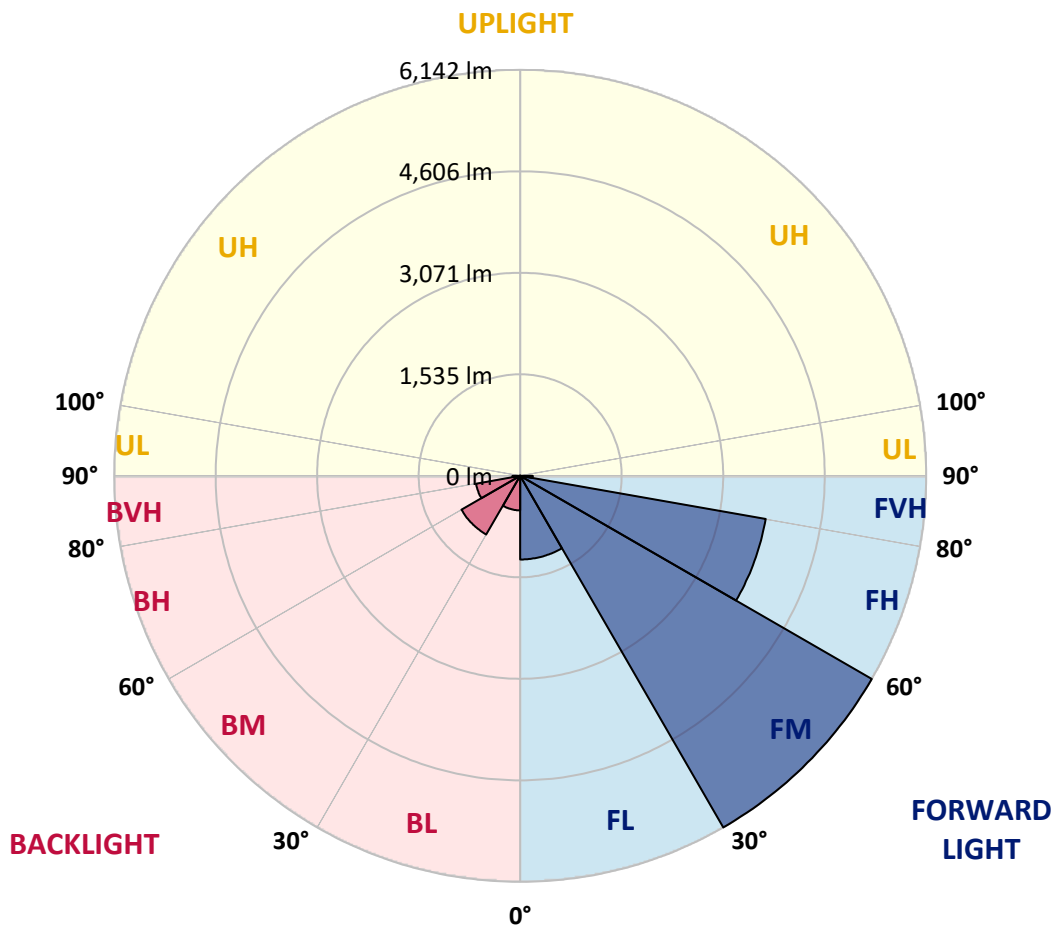


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.9	9.2			
FM (30°-60°)	6141.8	44.8			
FH (60°-80°)	3771.7	27.5			G2/5000
FVH (80°-90°)	190.2	1.4			G2/225
BL (0°-30°)	522.6	3.8	B2/1000		
BM (30°-60°)	1025.4	7.5	B2/2500		
BH (60°-80°)	677.9	4.9	B2/1000		G2/1000
BVH (80°-90°)	115.4	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1358.6	1358.6	1358.6	1358.6	1358.6	1358.6	1358.6	1358.6	1358.6	1358.6	1358.6
2.5°	1926.1	1931.9	1920.4	1894.7	1857.4	1788.6	1728.4	1622.3	1527.8	1516.3	1416.0
5°	2264.4	2270.1	2255.7	2224.2	2184.1	2109.6	2026.4	1888.9	1737.0	1708.3	1496.2
7.5°	2496.6	2499.5	2482.2	2450.6	2419.1	2344.6	2261.4	2106.7	1920.4	1897.5	1599.3
10°	2694.4	2700.1	2677.1	2657.0	2622.7	2548.2	2462.1	2298.9	2106.7	2075.2	1705.4
12.5°	2877.8	2883.5	2869.1	2852.0	2840.5	2771.7	2677.1	2482.2	2275.9	2241.5	1831.5
15°	3001.1	3006.7	3009.6	3032.5	3046.9	2998.2	2903.6	2691.5	2459.3	2427.7	1980.7
17.5°	2966.6	2980.9	3024.0	3107.0	3196.0	3198.8	3121.4	2897.8	2639.8	2605.5	2132.5
20°	2866.3	2877.8	2929.3	3055.4	3230.4	3330.7	3324.9	3107.0	2808.9	2771.7	2272.9
22.5°	2949.5	2963.7	2963.7	3041.1	3213.1	3399.4	3473.9	3313.4	2978.1	2943.7	2413.4
25°	3304.9	3313.4	3253.2	3221.7	3284.8	3456.8	3597.2	3537.0	3184.5	3144.3	2565.3
27.5°	3800.7	3786.4	3711.9	3585.8	3516.9	3562.8	3706.1	3749.1	3422.3	3373.6	2723.0
30°	4293.7	4285.1	4199.2	4030.0	3875.2	3777.7	3826.5	3938.2	3680.3	3623.0	2874.9
32.5°	4755.2	4740.9	4646.2	4448.5	4273.6	4093.1	3998.5	4110.3	3955.5	3889.5	3044.0
35°	5179.4	5142.1	5047.6	4841.2	4660.6	4488.6	4256.4	4273.6	4253.6	4184.7	3230.4
37.5°	5523.4	5494.6	5391.5	5199.4	5007.4	4844.0	4600.4	4460.0	4574.5	4508.7	3445.3
40°	5827.2	5795.6	5689.5	5497.5	5319.9	5165.0	4973.1	4686.3	4935.8	4861.3	3686.1
42.5°	6056.5	6033.6	5947.5	5758.4	5586.4	5445.9	5351.4	4973.1	5311.2	5239.5	3949.7
45°	6179.7	6156.8	6110.9	5959.0	5801.3	5692.4	5701.0	5314.1	5703.9	5643.7	4262.2
47.5°	6027.9	6045.0	6085.0	6056.5	5959.0	5907.4	6013.5	5666.6	6142.4	6085.0	4600.4
50°	5620.9	5638.0	5798.5	5996.2	6030.7	6093.7	6294.3	6073.6	6606.8	6560.9	5018.9
52.5°	4620.5	4715.1	5159.3	5632.2	5956.2	6217.0	6606.8	6678.5	7389.3	7389.3	5758.4
55°	3491.2	3574.3	4081.6	4907.1	5666.6	6228.5	6836.2	7088.3	7954.0	7965.4	6145.3
57.5°	2829.0	2880.6	3130.0	3975.5	5059.0	6085.0	7108.4	7440.9	8424.0	8475.6	6644.0
60°	2295.9	2324.6	2488.0	3075.5	4219.1	5698.2	7303.3	7945.4	9094.7	9166.5	7280.4
62.5°	1845.9	1874.6	1983.5	2336.1	3310.5	4973.1	7268.9	8469.9	9989.0	10106.5	8114.4
65°	1473.3	1504.8	1576.5	1794.2	2453.5	4072.9	6916.3	8739.3	10914.8	11029.5	8667.6
67.5°	1149.4	1178.1	1226.8	1370.1	1728.4	3046.9	6082.3	8455.6	11330.4	11427.9	8696.3
70°	868.5	882.9	922.9	1014.7	1235.4	2023.6	4760.9	7503.9	10957.8	11046.6	8123.1
72.5°	673.6	670.8	693.7	739.4	862.7	1393.0	3155.7	6102.3	9688.0	9779.8	6930.7
75°	550.3	547.5	561.8	576.2	624.9	934.3	1863.1	4594.7	7819.2	7644.5	5199.4
77.5°	464.4	461.5	475.9	478.7	498.8	644.9	1060.6	3024.0	5216.7	4915.7	2929.3
80°	392.7	389.8	407.0	412.8	427.1	473.0	610.5	1636.7	2619.8	2482.2	1398.7
82.5°	295.2	306.7	338.2	352.6	369.8	349.7	378.4	722.3	1215.3	1160.9	607.7
85°	143.3	169.2	255.1	283.7	303.8	220.7	258.0	341.1	547.5	521.7	246.5
87.5°	48.7	43.0	151.9	180.6	197.8	100.3	143.3	189.1	226.3	206.4	77.3
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°	1358.6	1358.6	1358.6	1358.6	1358.6	1358.6	1358.6	1358.6	1358.6	1358.6	1358.6
2.5°	1373.0	1329.9	1266.9	1218.1	1186.7	1160.9	1149.4	1146.5	1140.7	1137.9	1137.9
5°	1401.6	1324.2	1226.8	1175.2	1160.9	1149.4	1155.1	1157.9	1157.9	1157.9	1157.9
7.5°	1444.6	1335.7	1218.1	1183.9	1180.9	1180.9	1198.1	1206.7	1212.4	1212.4	1212.4
10°	1502.0	1355.8	1232.6	1203.8	1212.4	1218.1	1238.2	1249.7	1255.4	1258.3	1261.2
12.5°	1579.4	1398.7	1261.2	1238.2	1249.7	1252.5	1266.9	1272.7	1278.4	1281.3	1281.3
15°	1682.5	1461.8	1307.1	1278.4	1281.3	1278.4	1278.4	1272.7	1269.8	1269.8	1275.5
17.5°	1788.6	1522.0	1347.1	1307.1	1295.6	1272.7	1255.4	1241.0	1232.6	1226.8	1229.6
20°	1894.7	1576.5	1370.1	1312.8	1281.3	1243.9	1212.4	1192.3	1180.9	1169.4	1175.2
22.5°	2000.6	1628.1	1378.7	1295.6	1249.7	1195.3	1160.9	1129.3	1103.5	1086.4	1089.2
25°	2118.2	1685.4	1378.7	1275.5	1206.7	1149.4	1106.4	1054.8	1017.5	1003.2	1008.9
27.5°	2235.7	1734.1	1364.3	1238.2	1157.9	1100.7	1037.6	977.5	954.5	945.8	948.7
30°	2353.2	1771.3	1332.9	1192.3	1106.4	1043.3	960.2	920.1	891.4	868.5	871.4
32.5°	2470.8	1797.2	1289.8	1135.1	1051.9	971.7	902.9	857.0	805.5	776.8	779.7
35°	2605.5	1817.2	1238.2	1077.8	991.7	908.6	857.0	782.6	728.0	705.2	699.4
37.5°	2745.9	1831.5	1183.9	1014.7	931.6	862.7	811.1	719.5	667.8	636.3	633.4
40°	2897.8	1837.3	1117.8	948.7	874.2	834.0	750.9	682.3	593.3	573.3	573.3
42.5°	3078.4	1834.5	1051.9	882.9	811.1	768.2	708.0	676.5	599.1	579.0	567.5
45°	3284.8	1834.5	980.3	805.5	748.1	685.0	659.3	639.1	587.6	596.2	601.9
47.5°	3519.8	1828.7	894.3	742.4	696.5	642.0	627.7	584.7	564.7	570.5	576.2
50°	3843.7	1837.3	816.9	690.7	659.3	613.4	596.2	573.3	564.7	567.5	564.7
52.5°	4293.7	1808.7	742.4	659.3	630.5	570.5	570.5	567.5	570.5	567.5	567.5
55°	4540.2	1745.5	687.9	642.0	610.5	550.3	561.8	567.5	573.3	570.5	570.5
57.5°	4889.9	1702.6	644.9	630.5	599.1	544.5	556.0	567.5	570.5	567.5	567.5
60°	5302.7	1674.0	616.2	633.4	590.4	544.5	559.0	567.5	564.7	561.8	561.8
62.5°	5781.4	1662.5	596.2	642.0	581.8	547.5	559.0	567.5	556.0	553.2	553.2
65°	5961.8	1559.2	570.5	647.8	587.6	547.5	556.0	559.0	544.5	541.7	538.8
67.5°	5683.8	1381.6	533.0	636.3	604.8	547.5	547.5	544.5	527.4	524.6	518.8
70°	5061.9	1146.5	475.9	599.1	616.2	550.3	536.0	521.7	504.4	504.4	493.0
72.5°	4144.6	902.9	401.3	533.0	607.7	559.0	513.1	493.0	473.0	473.0	461.5
75°	2986.7	673.6	321.0	444.2	570.5	556.0	484.4	458.6	435.7	432.7	418.5
77.5°	1702.6	473.0	260.8	346.8	507.3	541.7	458.6	418.5	392.7	384.0	375.6
80°	874.2	318.2	212.1	272.3	421.3	501.6	438.5	372.6	343.9	329.6	315.3
82.5°	415.6	212.1	163.4	200.6	318.2	438.5	412.8	321.0	289.5	272.3	255.1
85°	186.3	126.0	108.9	129.0	226.3	341.1	364.1	263.8	226.3	283.7	209.2
87.5°	60.2	57.4	57.4	60.2	108.9	149.0	266.6	194.9	180.6	149.0	126.0
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)