

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: P573387

Luminaire Tested: **ARCH-S-PA2-70-730-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-70-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9751 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

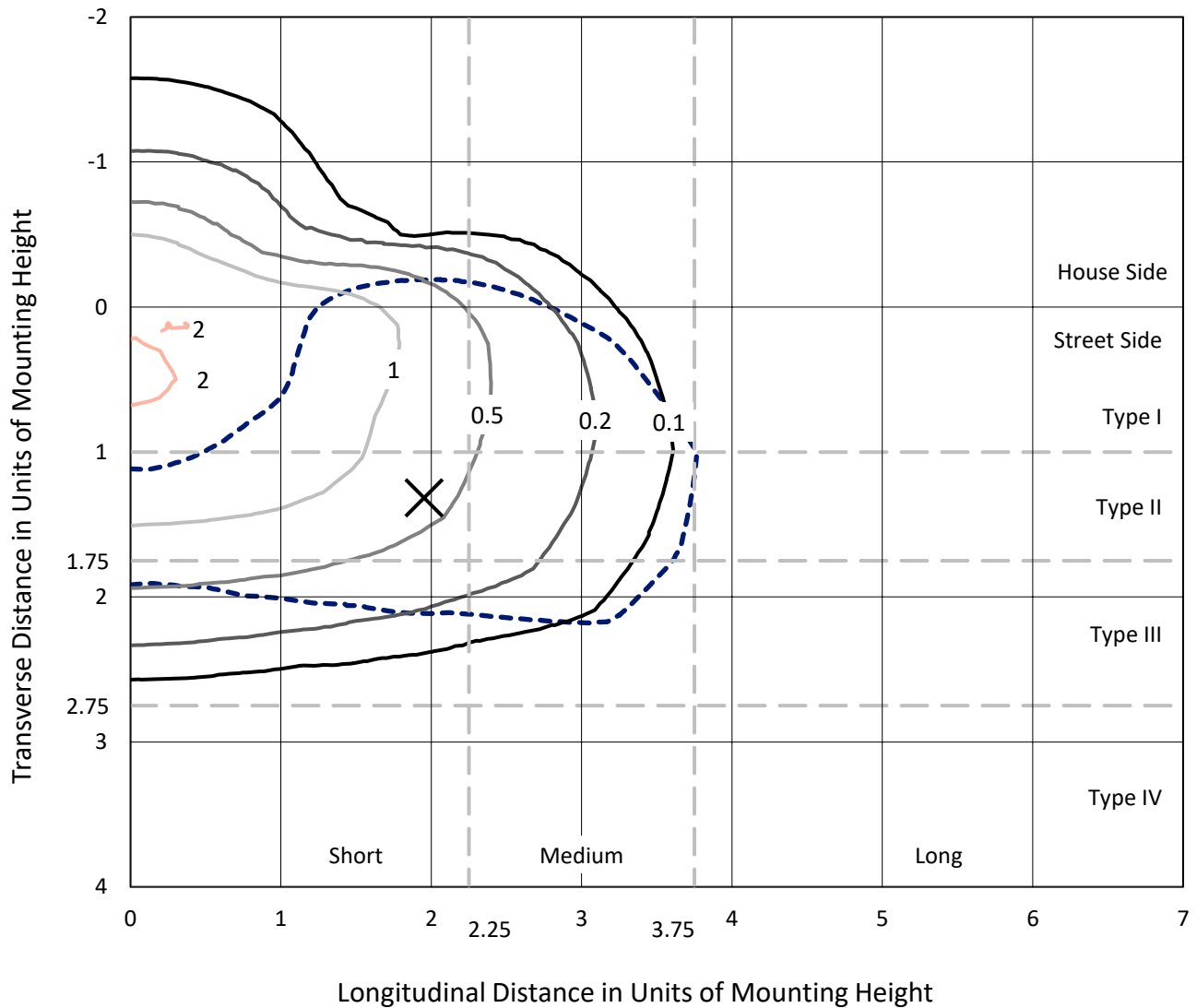
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

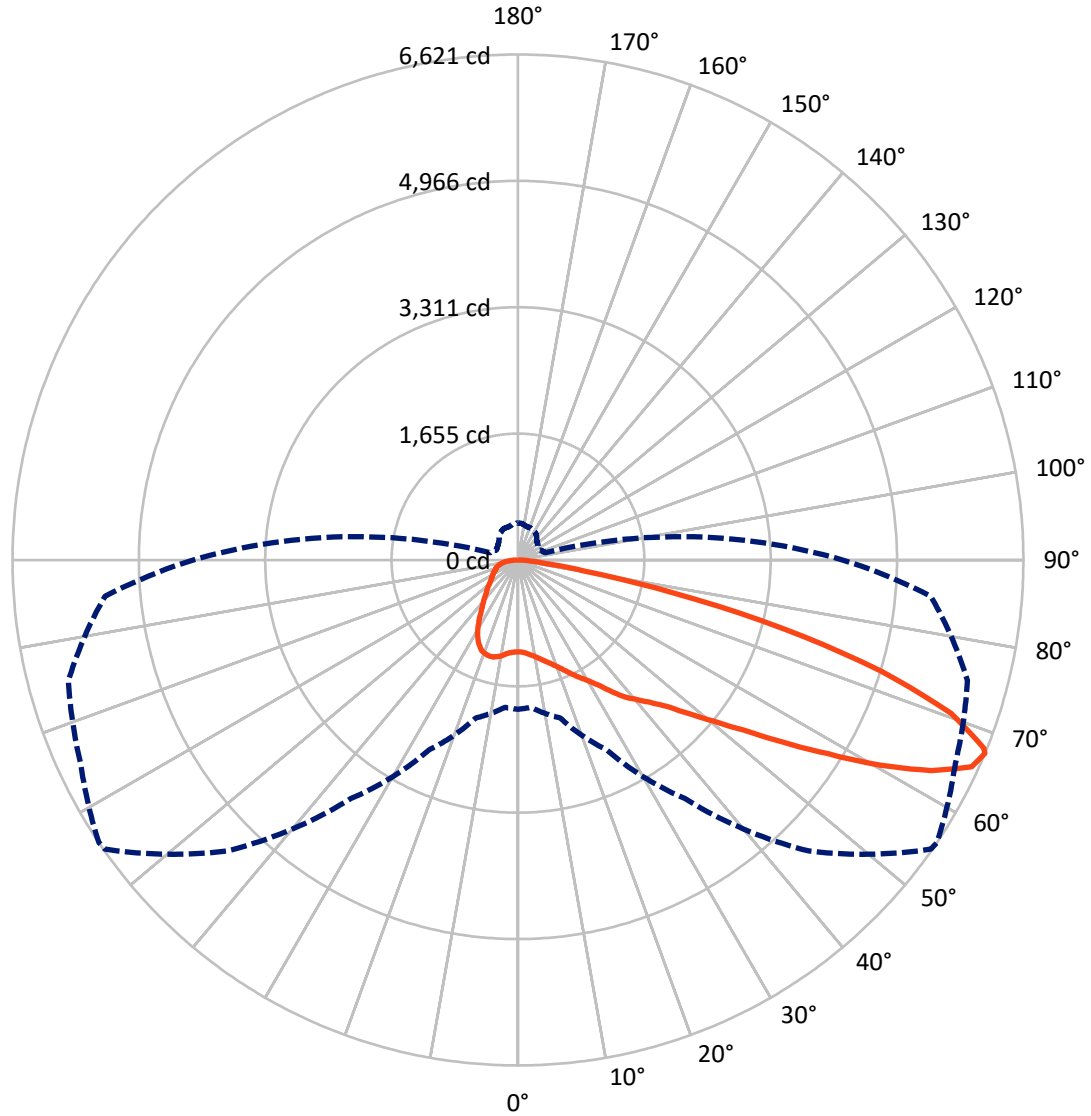
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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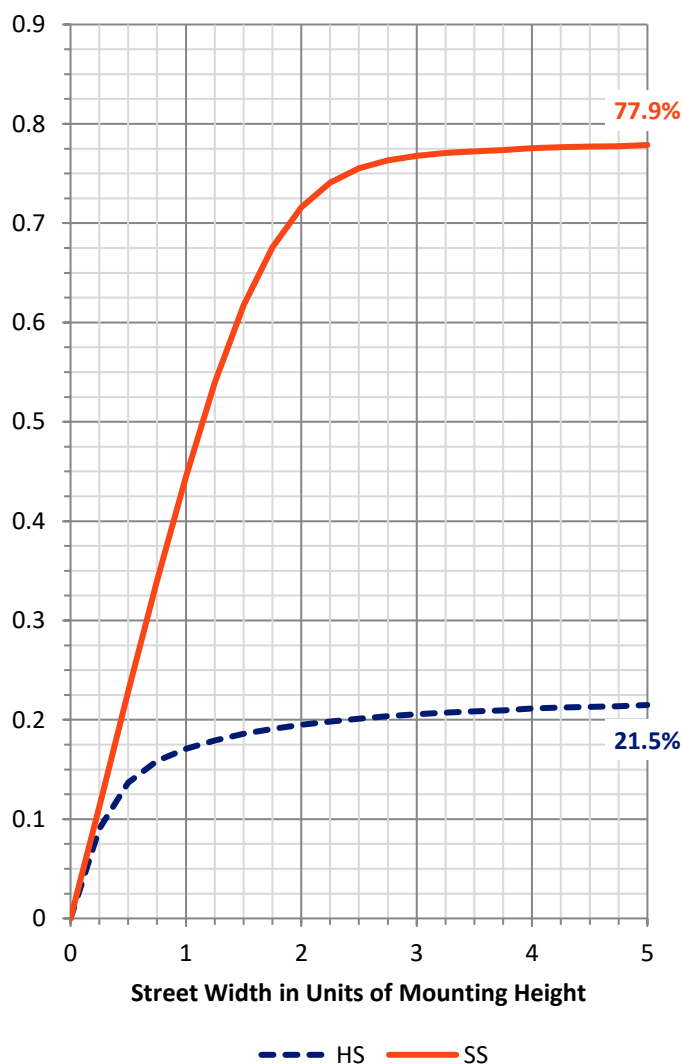
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2133.3	0.0	2133.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7617.7	0.0	7617.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	9751.0	0.0	9751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	1.2
10°-20°	379.8	3.9
20°-30°	661.1	6.8
30°-40°	969.3	9.9
40°-50°	1418.2	14.5
50°-60°	2216.4	22.7
60°-70°	2634.3	27.0
70°-80°	1199.7	12.3
80°-90°	153.8	1.6
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°	9751.0	100.0
0°-180°	9751.0	100.0

Coefficient of Utilization



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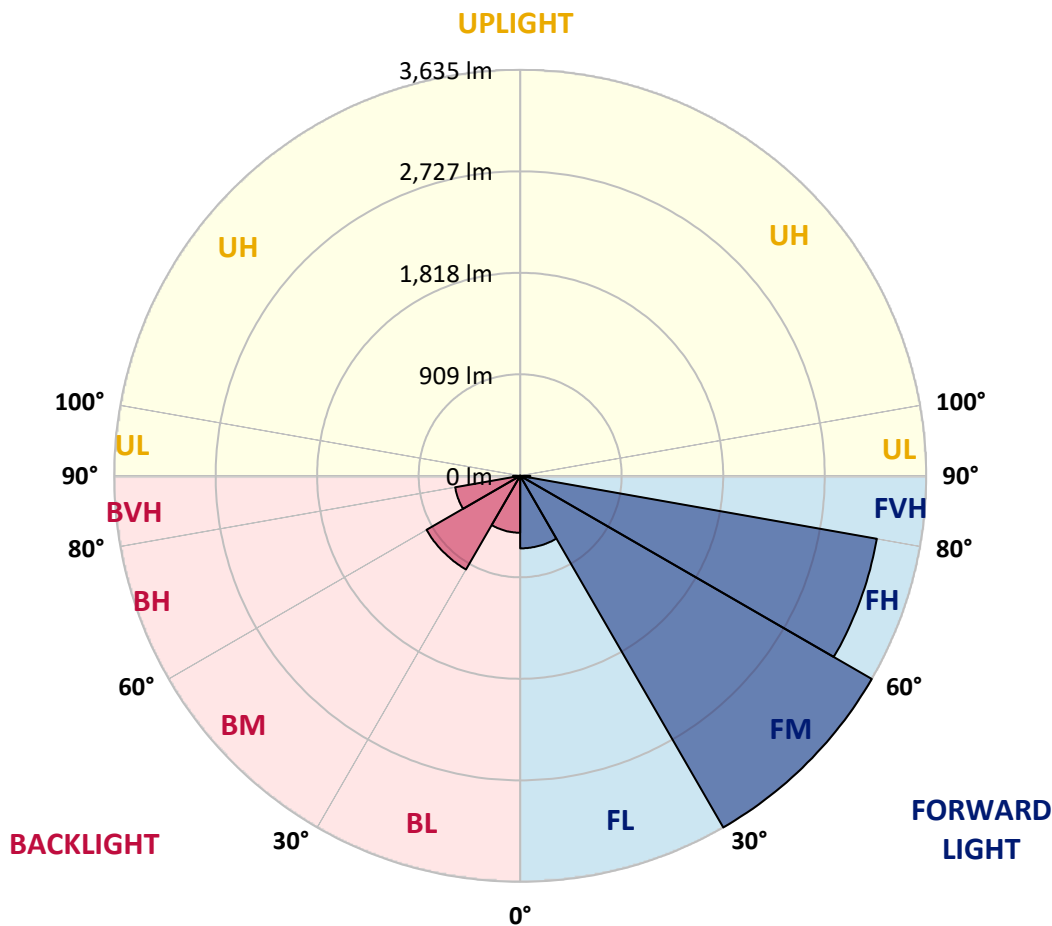
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.5	6.7			
FM (30°-60°)	3635.4	37.3			
FH (60°-80°)	3243.0	33.3			G2/5000
FVH (80°-90°)	89.7	0.9			G1/100
BL (0°-30°)	509.8	5.2	B2/1000		
BM (30°-60°)	968.4	9.9	B1/1000		
BH (60°-80°)	591.0	6.1	B2/1000		G2/1000
BVH (80°-90°)	64.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9
2.5°	1222.3	1217.1	1214.4	1217.1	1214.4	1209.1	1211.8	1209.1	1206.5	1203.9	1203.9
5°	1238.2	1232.9	1230.3	1232.9	1235.5	1230.3	1230.3	1230.3	1222.3	1219.7	1214.4
7.5°	1248.7	1240.8	1240.8	1246.1	1251.4	1254.0	1259.3	1256.7	1248.7	1243.5	1232.9
10°	1283.1	1272.5	1272.5	1272.5	1277.8	1283.1	1288.3	1291.0	1288.3	1285.7	1277.8
12.5°	1335.9	1325.3	1325.3	1325.3	1325.3	1322.7	1330.6	1333.2	1338.5	1338.5	1325.3
15°	1407.2	1394.0	1388.7	1378.1	1375.5	1370.2	1380.8	1380.8	1388.7	1391.3	1378.1
17.5°	1475.8	1460.0	1454.7	1444.1	1433.6	1420.4	1430.9	1433.6	1449.4	1452.0	1430.9
20°	1547.1	1541.8	1533.9	1518.0	1499.6	1486.4	1496.9	1494.3	1507.5	1512.8	1486.4
22.5°	1639.5	1626.3	1621.0	1599.9	1578.8	1565.6	1565.6	1570.8	1584.0	1584.0	1544.4
25°	1750.4	1731.9	1718.7	1694.9	1668.5	1652.7	1655.3	1660.6	1679.1	1665.9	1605.2
27.5°	1887.6	1869.2	1850.7	1803.2	1776.8	1745.1	1742.4	1747.7	1776.8	1742.4	1663.2
30°	2017.0	2009.1	1993.2	1956.3	1914.0	1861.2	1837.5	1840.1	1861.2	1813.7	1713.4
32.5°	2127.9	2117.3	2109.4	2083.0	2054.0	1990.6	1958.9	1961.6	1958.9	1900.8	1774.1
35°	2259.9	2244.0	2238.8	2215.0	2178.0	2135.8	2122.6	2117.3	2101.5	2022.3	1853.3
37.5°	2386.6	2370.8	2362.9	2349.7	2320.6	2283.7	2283.7	2281.0	2249.3	2138.4	1932.5
40°	2537.1	2518.6	2494.9	2486.9	2463.2	2436.8	2415.7	2402.5	2347.0	2246.7	2085.6
42.5°	2719.3	2708.7	2695.5	2661.2	2624.2	2618.9	2558.2	2552.9	2513.3	2455.3	2302.1
45°	2980.6	2959.5	2941.0	2930.5	2885.6	2838.1	2753.6	2732.5	2732.5	2719.3	2555.6
47.5°	3244.6	3207.7	3234.1	3226.2	3215.6	3162.8	2999.1	3001.7	2996.5	3030.8	2927.8
50°	3421.5	3400.4	3474.3	3508.6	3582.6	3582.6	3347.6	3318.6	3339.7	3440.0	3308.0
52.5°	3558.8	3545.6	3630.1	3764.7	3983.8	4005.0	3762.1	3701.4	3730.4	3873.0	3820.2
55°	3669.7	3656.5	3754.2	3989.1	4340.3	4469.6	4239.9	4213.5	4155.5	4308.6	4324.4
57.5°	3735.7	3706.6	3854.5	4168.7	4630.7	4929.0	4799.6	4791.7	4657.1	4799.6	4870.9
60°	3635.4	3616.9	3820.2	4242.6	4865.6	5362.0	5457.0	5457.0	5216.8	5293.3	5380.4
62.5°	3310.6	3286.9	3500.7	4071.0	4894.7	5715.7	6109.1	6077.4	5755.3	5752.7	5676.1
65°	2692.9	2663.8	2904.1	3506.0	4527.7	5758.0	6550.0	6531.5	6159.3	6053.7	5694.6
67°	1956.3	1937.8	2143.7	2740.4	3814.9	5391.0	6605.4	6621.3	6320.3	6095.9	5428.0
67.5°	1755.6	1753.0	1924.6	2516.0	3606.3	5256.4	6568.5	6584.3	6317.7	6061.6	5322.4
70°	818.4	855.4	1016.4	1441.5	2431.5	4139.6	5961.3	6022.0	5979.7	5665.6	4482.8
72.5°	380.2	396.0	467.3	697.0	1306.8	2669.1	4831.3	4976.5	5161.3	4860.3	3550.9
75°	235.0	240.2	279.8	361.7	615.1	1283.1	3440.0	3598.4	3878.2	3656.5	2270.4
77.5°	184.8	187.4	213.8	258.7	359.0	551.8	1887.6	2085.6	2450.0	2162.2	1143.1
80°	137.3	142.6	163.7	200.6	253.4	282.5	802.6	876.5	1182.7	905.5	475.2
82.5°	100.3	105.6	126.7	145.2	176.9	179.5	327.4	345.8	506.9	367.0	205.9
85°	84.5	84.5	97.7	108.2	118.8	100.3	161.0	158.4	195.4	166.3	81.8
87.5°	39.6	42.2	92.4	68.6	58.1	42.2	47.5	50.2	60.7	66.0	31.7
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°	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9
2.5°	1201.2	1201.2	1201.2	1203.9	1206.5	1206.5	1209.1	1209.1	1211.8	1214.4	1219.7
5°	1211.8	1211.8	1209.1	1211.8	1217.1	1219.7	1225.0	1230.3	1235.5	1240.8	1243.5
7.5°	1232.9	1230.3	1230.3	1230.3	1235.5	1240.8	1248.7	1254.0	1261.9	1264.6	1269.9
10°	1272.5	1267.2	1267.2	1269.9	1272.5	1264.6	1261.9	1259.3	1267.2	1272.5	1277.8
12.5°	1320.0	1314.7	1312.1	1304.2	1293.6	1277.8	1264.6	1254.0	1256.7	1261.9	1269.9
15°	1370.2	1359.6	1354.3	1335.9	1309.5	1275.1	1254.0	1240.8	1240.8	1240.8	1248.7
17.5°	1423.0	1412.4	1391.3	1357.0	1306.8	1259.3	1232.9	1209.1	1198.6	1195.9	1201.2
20°	1473.2	1457.3	1423.0	1370.2	1291.0	1227.6	1193.3	1153.7	1137.9	1127.3	1132.6
22.5°	1520.7	1499.6	1452.0	1370.2	1264.6	1180.1	1119.4	1066.6	1040.2	1034.9	1037.5
25°	1570.8	1544.4	1481.1	1354.3	1206.5	1108.8	1024.3	968.9	934.6	929.3	937.2
27.5°	1621.0	1581.4	1504.8	1312.1	1140.5	1011.1	921.4	868.6	850.1	839.5	842.2
30°	1663.2	1626.3	1528.6	1254.0	1050.7	897.6	815.8	792.0	778.8	773.5	773.5
32.5°	1718.7	1684.4	1544.4	1185.4	945.1	794.7	741.9	723.4	712.8	699.6	702.3
35°	1787.3	1755.6	1536.5	1098.3	844.8	726.0	683.8	657.4	633.6	615.1	612.5
37.5°	1879.7	1856.0	1496.9	992.7	752.4	675.9	633.6	599.3	565.0	535.9	530.7
40°	2032.8	1977.4	1438.8	876.5	689.1	636.3	586.1	543.9	501.6	469.9	462.0
42.5°	2228.2	2112.0	1359.6	757.7	636.3	594.0	543.9	488.4	448.8	419.8	419.8
45°	2455.3	2257.2	1264.6	667.9	580.8	551.8	491.1	443.5	419.8	401.3	398.6
47.5°	2724.5	2402.5	1143.1	596.7	535.9	514.8	454.1	425.0	409.2	393.4	390.7
50°	3086.2	2597.8	1053.4	535.9	491.1	472.6	443.5	419.8	403.9	393.4	390.7
52.5°	3500.7	2848.6	990.0	488.4	454.1	446.2	440.9	422.4	406.6	398.6	396.0
55°	3949.5	3157.5	929.3	448.8	425.0	435.6	446.2	427.7	417.1	406.6	401.3
57.5°	4371.9	3418.9	831.6	414.5	403.9	422.4	443.5	430.3	417.1	409.2	406.6
60°	4659.7	3550.9	697.0	382.8	382.8	403.9	435.6	417.1	403.9	406.6	406.6
62.5°	4752.1	3500.7	551.8	353.8	361.7	382.8	411.8	401.3	396.0	409.2	409.2
65°	4614.8	3297.4	440.9	330.0	340.6	356.4	398.6	409.2	425.0	454.1	456.7
67°	4255.8	2970.1	372.2	311.5	322.1	348.5	414.5	451.4	451.4	483.1	483.1
67.5°	4150.2	2859.2	361.7	306.2	319.4	348.5	422.4	462.0	451.4	488.4	488.4
70°	3374.0	2249.3	306.2	290.4	308.9	367.0	456.7	464.7	440.9	475.2	472.6
72.5°	2502.8	1626.3	279.8	274.6	287.8	345.8	454.1	446.2	411.8	422.4	414.5
75°	1547.1	942.5	258.7	253.4	261.4	306.2	419.8	406.6	367.0	359.0	351.1
77.5°	747.1	477.9	221.8	229.7	237.6	266.6	369.6	356.4	322.1	303.6	301.0
80°	324.7	245.5	190.1	203.3	205.9	227.0	306.2	290.4	258.7	229.7	229.7
82.5°	161.0	137.3	150.5	169.0	163.7	182.2	240.2	213.8	190.1	158.4	153.1
85°	73.9	79.2	110.9	126.7	110.9	113.5	163.7	150.5	118.8	89.8	92.4
87.5°	26.4	37.0	63.4	76.6	55.4	52.8	87.1	63.4	37.0	10.6	13.2
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)