

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: P572708

Luminaire Tested: **ARCH-S-PA2-100-830-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-100-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11090 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

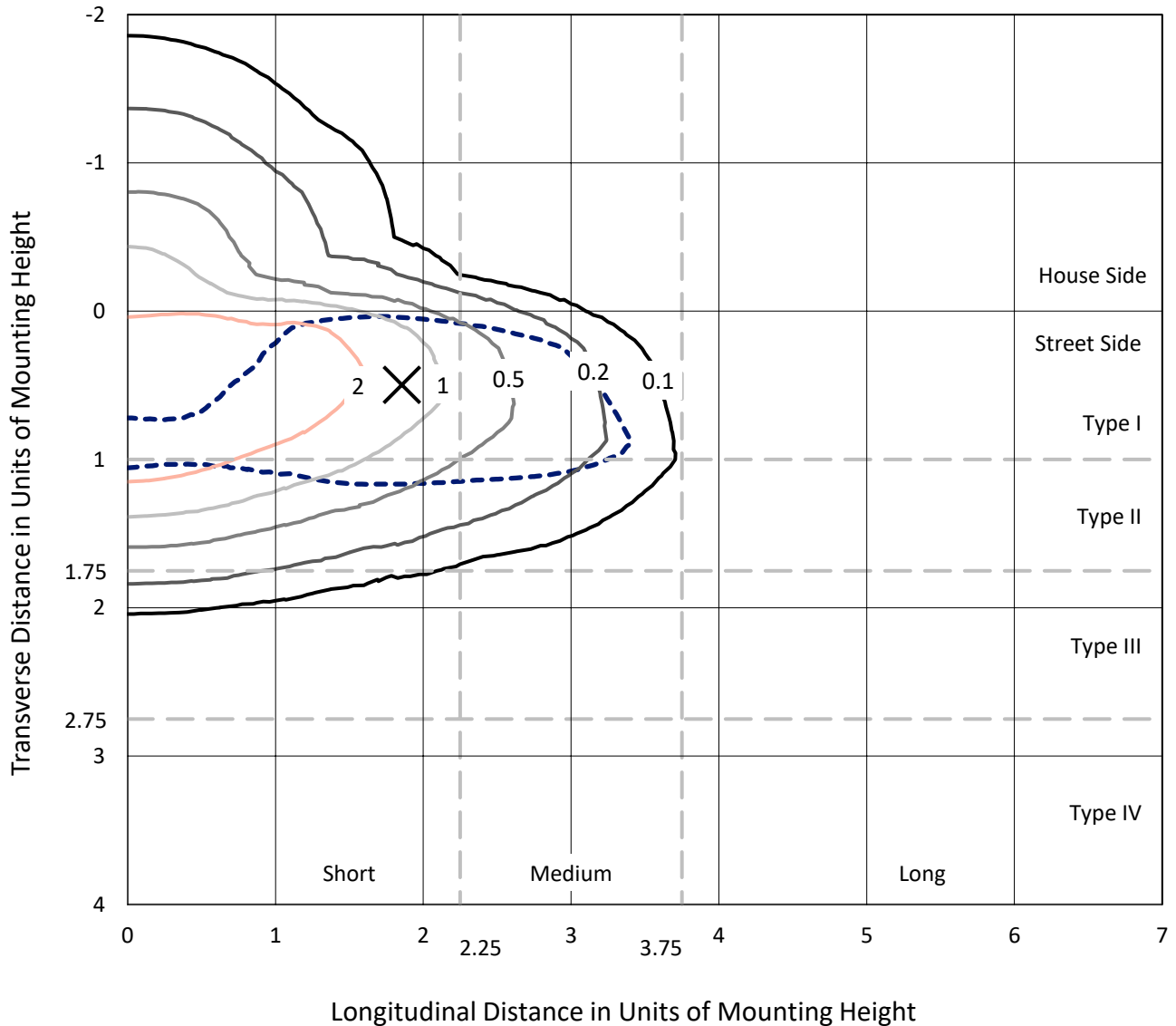
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572708
 CATALOG NUMBER: ARCH-S-PA2-100-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

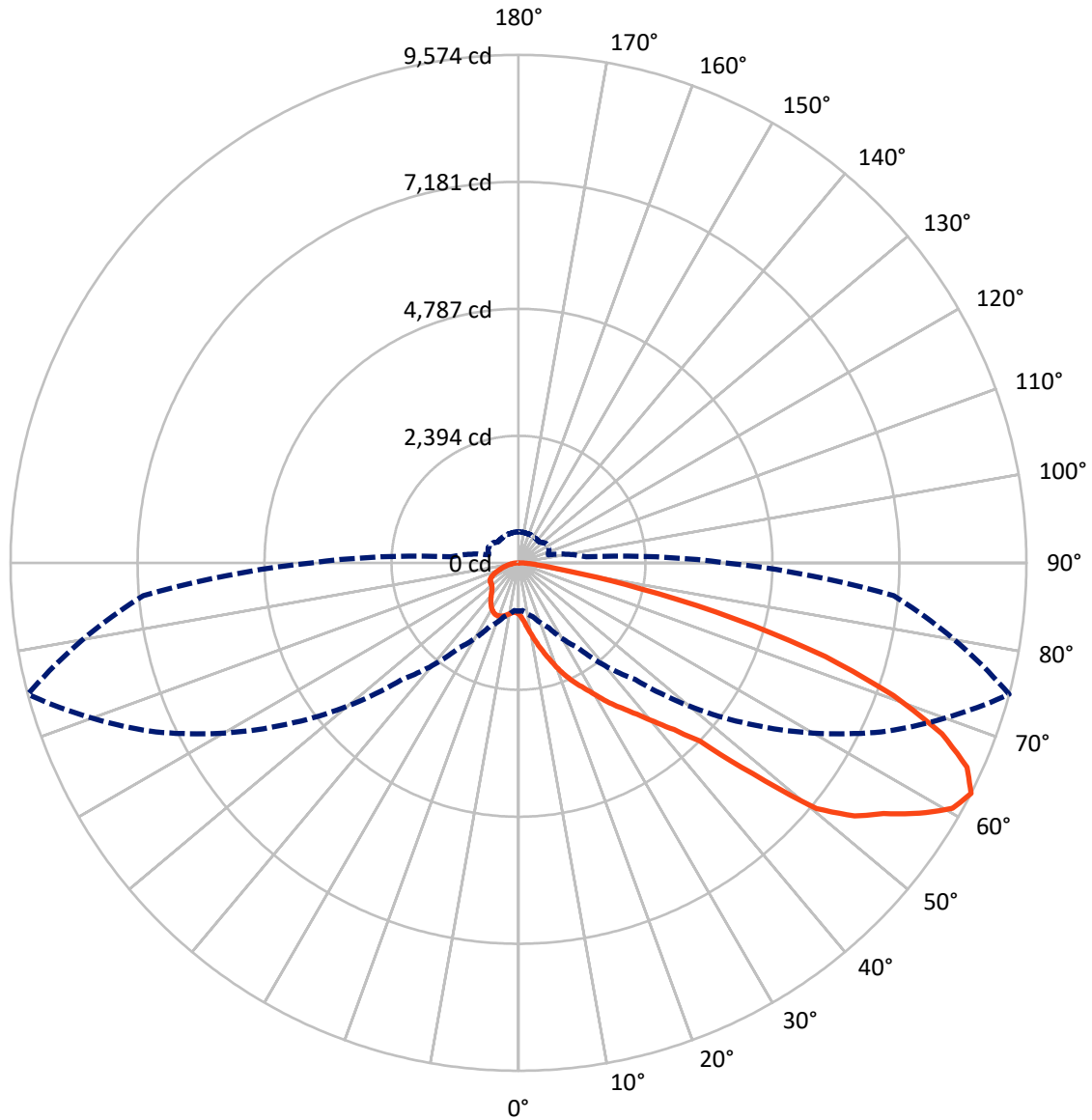
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P572708
CATALOG NUMBER: ARCH-S-PA2-100-830-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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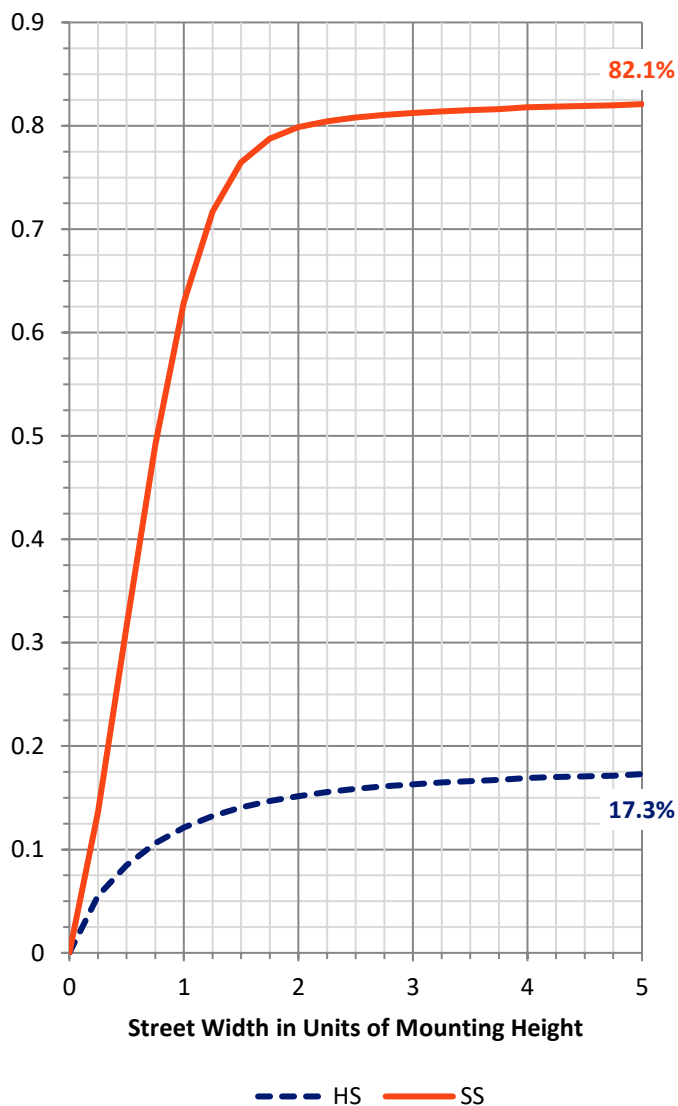
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1956.0	0.0	1956.0
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	9134.0	0.0	9134.0
	% Fixture	82.4	0.0	82.4
Total	Lumens	11090.0	0.0	11090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	1.0
10°-20°	458.9	4.1
20°-30°	907.9	8.2
30°-40°	1513.3	13.6
40°-50°	2233.1	20.1
50°-60°	2684.4	24.2
60°-70°	2086.3	18.8
70°-80°	923.0	8.3
80°-90°	167.1	1.5
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°	11090.0	100.0
0°-180°	11090.0	100.0

Coefficient of Utilization



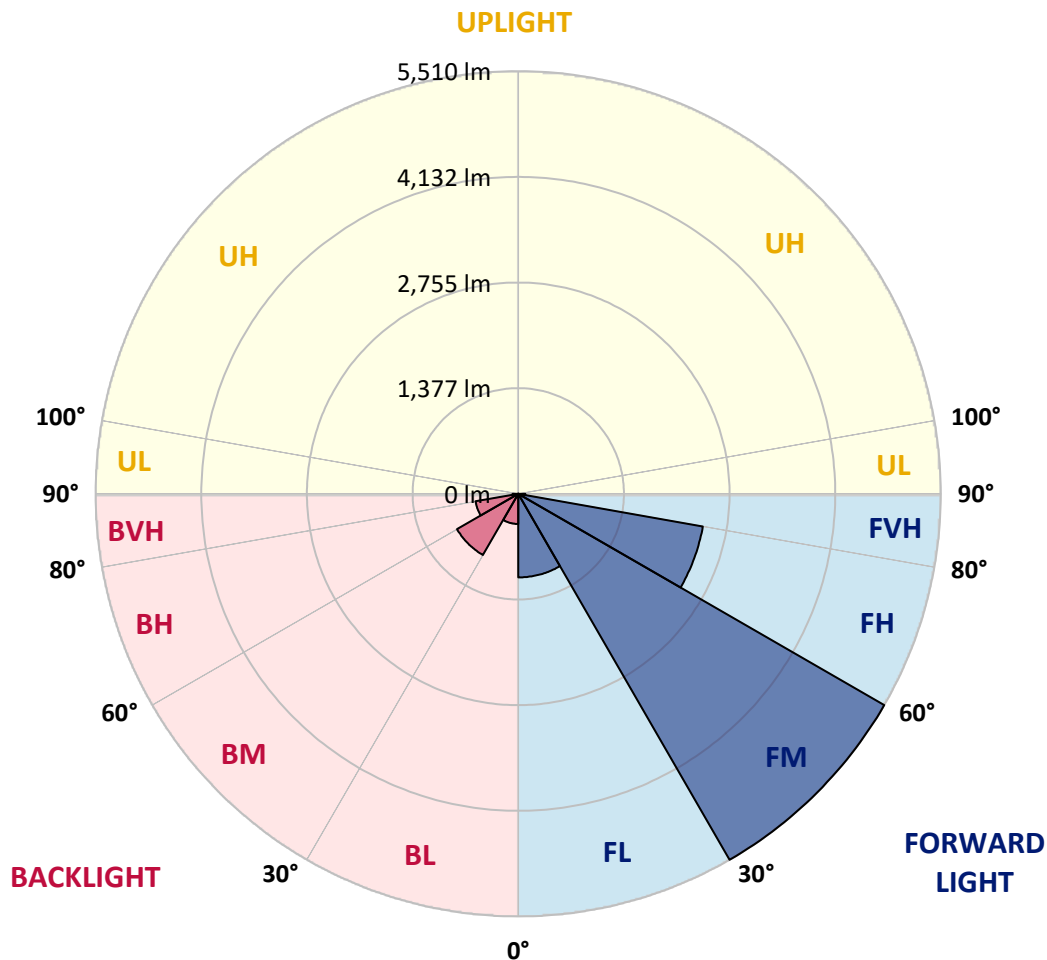
REPORT NUMBER: P572708
 CATALOG NUMBER: ARCH-S-PA2-100-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.3	9.8			
FM (30°-60°)	5509.5	49.7			
FH (60°-80°)	2443.3	22.0			G2/5000
FVH (80°-90°)	91.8	0.8			G1/100
BL (0°-30°)	393.6	3.5	B1/500		
BM (30°-60°)	921.2	8.3	B1/1000		
BH (60°-80°)	565.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	75.2	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 II Short





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CATALOG NUMBER: ARCH-S-PA2-100-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7
2.5°	1236.0	1200.1	1200.1	1161.2	1164.2	1131.3	1095.4	1059.5	1020.5	990.6	975.7
5°	1616.1	1589.2	1580.2	1535.3	1463.5	1382.7	1295.9	1206.1	1113.3	1041.5	1005.6
7.5°	1972.3	1951.3	1939.3	1888.5	1789.7	1702.9	1565.2	1400.6	1242.0	1107.3	1053.5
10°	2235.6	2220.7	2196.7	2172.8	2101.0	2026.1	1855.5	1622.1	1388.7	1188.1	1107.3
12.5°	2427.2	2406.2	2406.2	2403.2	2355.3	2286.5	2127.9	1876.5	1559.3	1277.9	1167.2
15°	2555.9	2552.9	2561.8	2579.8	2567.8	2522.9	2364.3	2109.9	1732.8	1379.7	1236.0
17.5°	2651.6	2639.7	2657.6	2705.5	2741.4	2723.5	2591.8	2334.4	1924.4	1490.4	1310.9
20°	2756.4	2732.4	2756.4	2816.2	2861.1	2888.1	2825.2	2549.9	2130.9	1610.1	1382.7
22.5°	2956.9	2953.9	2941.9	2959.9	2989.8	3037.7	3001.8	2768.4	2331.4	1729.8	1466.5
25°	3316.0	3283.1	3250.2	3211.3	3178.4	3193.3	3163.4	2971.9	2514.0	1861.5	1538.3
27.5°	3717.1	3681.2	3621.3	3525.5	3435.8	3381.9	3319.0	3148.4	2690.5	1981.2	1607.1
30°	4085.2	4073.2	3983.4	3878.7	3723.1	3624.3	3504.6	3352.0	2903.0	2112.9	1679.0
32.5°	4429.4	4405.4	4315.6	4204.9	4022.3	3911.6	3747.0	3573.4	3145.4	2274.5	1753.8
35°	4725.7	4701.7	4597.0	4456.3	4297.7	4201.9	4013.4	3770.9	3366.9	2415.2	1816.6
37.5°	4950.1	4923.2	4824.4	4686.7	4546.1	4501.2	4339.6	4022.3	3618.3	2591.8	1894.5
40°	5075.8	5042.9	4977.1	4881.3	4764.6	4743.6	4674.8	4333.6	3935.6	2807.3	2008.2
42.5°	5090.8	5060.8	5024.9	5016.0	5007.0	5024.9	5057.9	4686.7	4297.7	3094.6	2175.8
45°	4959.1	4941.1	4944.1	5045.9	5186.5	5351.2	5548.7	5207.5	4785.5	3642.3	2552.9
47.5°	4677.8	4668.8	4734.6	4905.2	5219.5	5593.6	6153.2	6099.4	5940.7	4525.1	3037.7
50°	4222.9	4207.9	4348.6	4617.9	5066.8	5674.4	6560.2	7149.8	7281.5	5210.5	3354.9
52.5°	3570.4	3588.4	3806.9	4175.0	4716.7	5587.6	6727.8	7580.8	7928.0	5716.3	3597.4
55°	2903.0	2876.1	3073.6	3528.5	4198.9	5270.3	6760.8	7829.2	8347.0	6183.2	3833.8
57.5°	2115.9	2181.8	2391.3	2804.3	3531.5	4695.7	6569.2	7999.8	8909.6	6650.0	4052.3
60°	1433.6	1433.6	1619.1	2032.1	2729.4	3998.4	6057.5	7936.9	9400.4	7015.2	4100.2
62.5°	912.8	903.8	1053.5	1346.8	1954.3	3106.5	5291.3	7541.9	9574.0	7101.9	3899.6
65°	577.6	589.6	643.5	823.0	1251.0	2205.7	4246.8	6754.8	9289.7	6901.4	3549.5
67.5°	463.9	466.9	493.8	568.6	769.2	1415.6	3148.4	5668.4	8610.3	6395.6	3139.5
70°	410.0	416.0	422.0	448.9	526.7	894.9	2068.0	4564.0	7497.0	5515.8	2699.5
72.5°	374.1	380.1	386.1	392.1	434.0	583.6	1221.1	3459.7	6048.5	4237.8	2059.1
75°	344.2	350.2	350.2	353.2	377.1	434.0	670.4	2385.3	4210.9	2636.7	1283.9
77.5°	308.3	311.3	311.3	317.2	341.2	341.2	416.0	1475.5	2337.4	1194.1	649.4
80°	260.4	266.4	266.4	275.3	299.3	263.4	278.3	754.2	969.7	490.8	290.3
82.5°	191.5	203.5	209.5	224.5	239.4	200.5	200.5	380.1	410.0	218.5	155.6
85°	104.7	107.7	155.6	167.6	176.6	119.7	134.7	188.5	203.5	95.8	77.8
87.5°	29.9	32.9	74.8	92.8	83.8	50.9	56.9	71.8	71.8	26.9	20.9
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: P572708

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7
2.5°	963.7	939.7	918.8	903.8	888.9	879.9	876.9	870.9	870.9	873.9
5°	975.7	933.8	900.8	882.9	870.9	864.9	861.9	861.9	864.9	864.9
7.5°	1005.6	942.7	912.8	897.8	885.9	879.9	879.9	876.9	879.9	879.9
10°	1047.5	969.7	936.8	918.8	909.8	900.8	897.8	894.9	894.9	894.9
12.5°	1092.4	999.6	963.7	942.7	927.8	915.8	909.8	903.8	900.8	900.8
15°	1134.3	1029.5	981.6	957.7	936.8	918.8	906.8	897.8	894.9	894.9
17.5°	1179.2	1050.5	993.6	960.7	933.8	909.8	894.9	882.9	876.9	876.9
20°	1227.1	1065.4	993.6	951.7	915.8	891.9	873.9	861.9	850.0	850.0
22.5°	1266.0	1071.4	981.6	930.8	894.9	864.9	847.0	832.0	823.0	823.0
25°	1298.9	1065.4	954.7	897.8	855.9	829.0	811.1	799.1	790.1	790.1
27.5°	1319.8	1041.5	921.8	861.9	823.0	796.1	784.1	772.1	766.2	766.2
30°	1331.8	1011.6	879.9	823.0	784.1	769.2	763.2	751.2	742.2	739.2
32.5°	1337.8	966.7	838.0	784.1	757.2	751.2	751.2	736.2	724.3	721.3
35°	1331.8	918.8	796.1	751.2	742.2	745.2	739.2	721.3	706.3	700.3
37.5°	1322.8	861.9	751.2	727.3	736.2	742.2	724.3	700.3	676.4	670.4
40°	1316.8	811.1	715.3	703.3	730.2	733.2	700.3	655.4	637.5	631.5
42.5°	1346.8	760.2	682.4	685.4	715.3	718.3	658.4	637.5	625.5	622.5
45°	1448.5	715.3	655.4	673.4	697.3	685.4	637.5	634.5	625.5	622.5
47.5°	1526.3	682.4	643.5	664.4	682.4	640.5	634.5	631.5	622.5	619.5
50°	1553.3	661.4	640.5	658.4	661.4	619.5	628.5	628.5	619.5	616.5
52.5°	1556.3	649.4	646.4	655.4	628.5	610.5	622.5	622.5	613.5	610.5
55°	1568.2	643.5	649.4	655.4	592.6	598.6	610.5	613.5	604.5	601.6
57.5°	1544.3	634.5	655.4	658.4	577.6	586.6	598.6	598.6	598.6	598.6
60°	1451.5	616.5	652.4	652.4	565.6	571.6	583.6	589.6	592.6	592.6
62.5°	1280.9	580.6	634.5	634.5	553.7	559.7	574.6	574.6	583.6	583.6
65°	1065.4	529.7	598.6	595.6	541.7	547.7	565.6	559.7	574.6	577.6
67.5°	888.9	466.9	544.7	550.7	529.7	544.7	556.7	535.7	565.6	565.6
70°	709.3	392.1	472.9	499.8	508.8	547.7	538.7	505.8	544.7	535.7
72.5°	550.7	332.2	389.1	437.0	484.8	544.7	499.8	463.9	487.8	472.9
75°	401.0	275.3	320.2	362.1	451.9	535.7	460.9	407.0	407.0	401.0
77.5°	281.3	224.5	257.4	287.3	419.0	511.8	413.0	350.2	335.2	332.2
80°	191.5	176.6	203.5	221.5	371.1	463.9	356.1	290.3	263.4	257.4
82.5°	125.7	125.7	137.7	149.6	287.3	386.1	278.3	215.5	278.3	266.4
85°	71.8	74.8	74.8	86.8	158.6	272.3	197.5	215.5	128.7	119.7
87.5°	23.9	23.9	23.9	23.9	32.9	110.7	83.8	77.8	29.9	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)