

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: P572780

Luminaire Tested: **ARCH-S-PA2-110-827-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572780
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-PA2-110-827-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11093 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

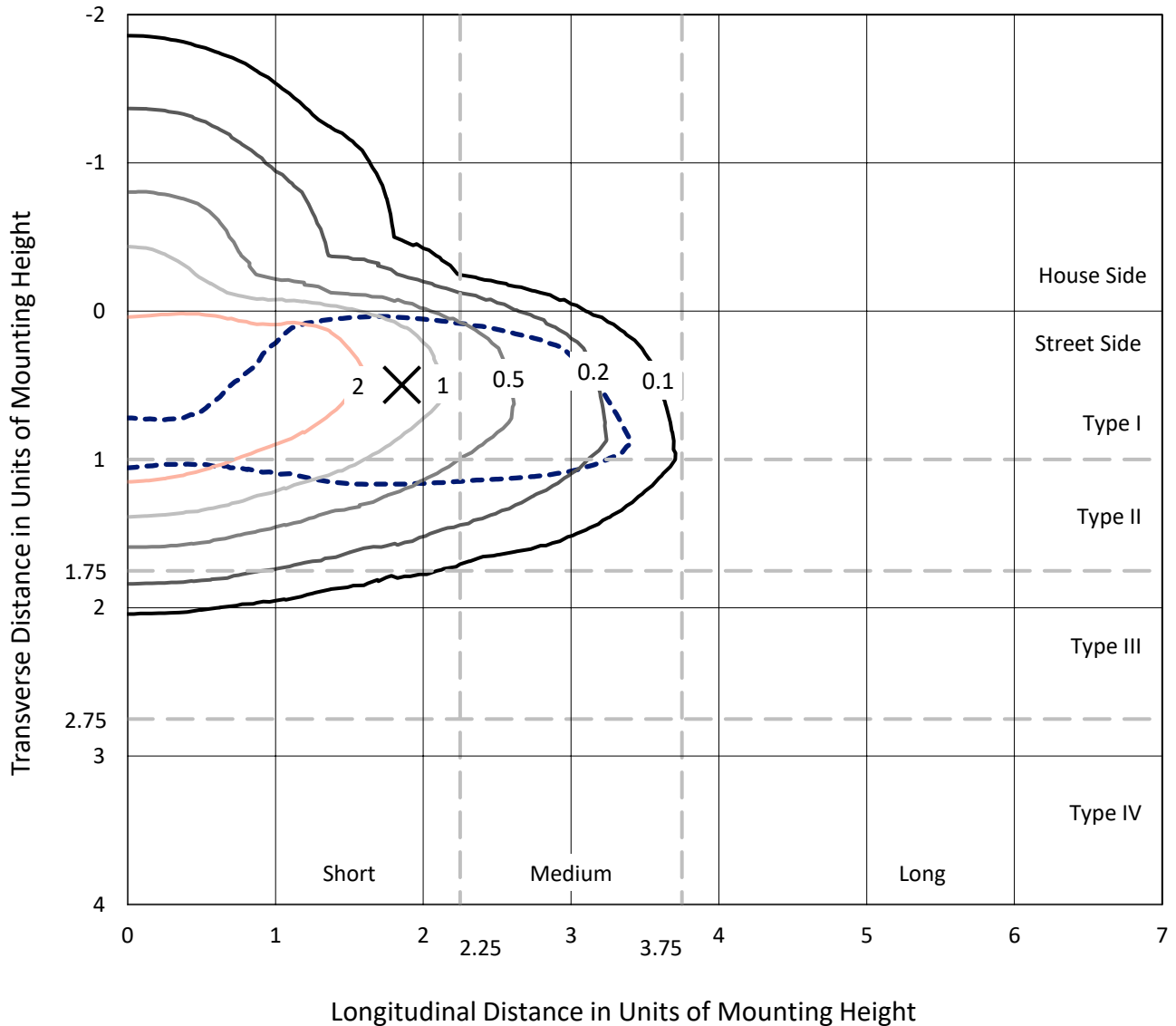
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572780
 CATALOG NUMBER: ARCH-S-PA2-110-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

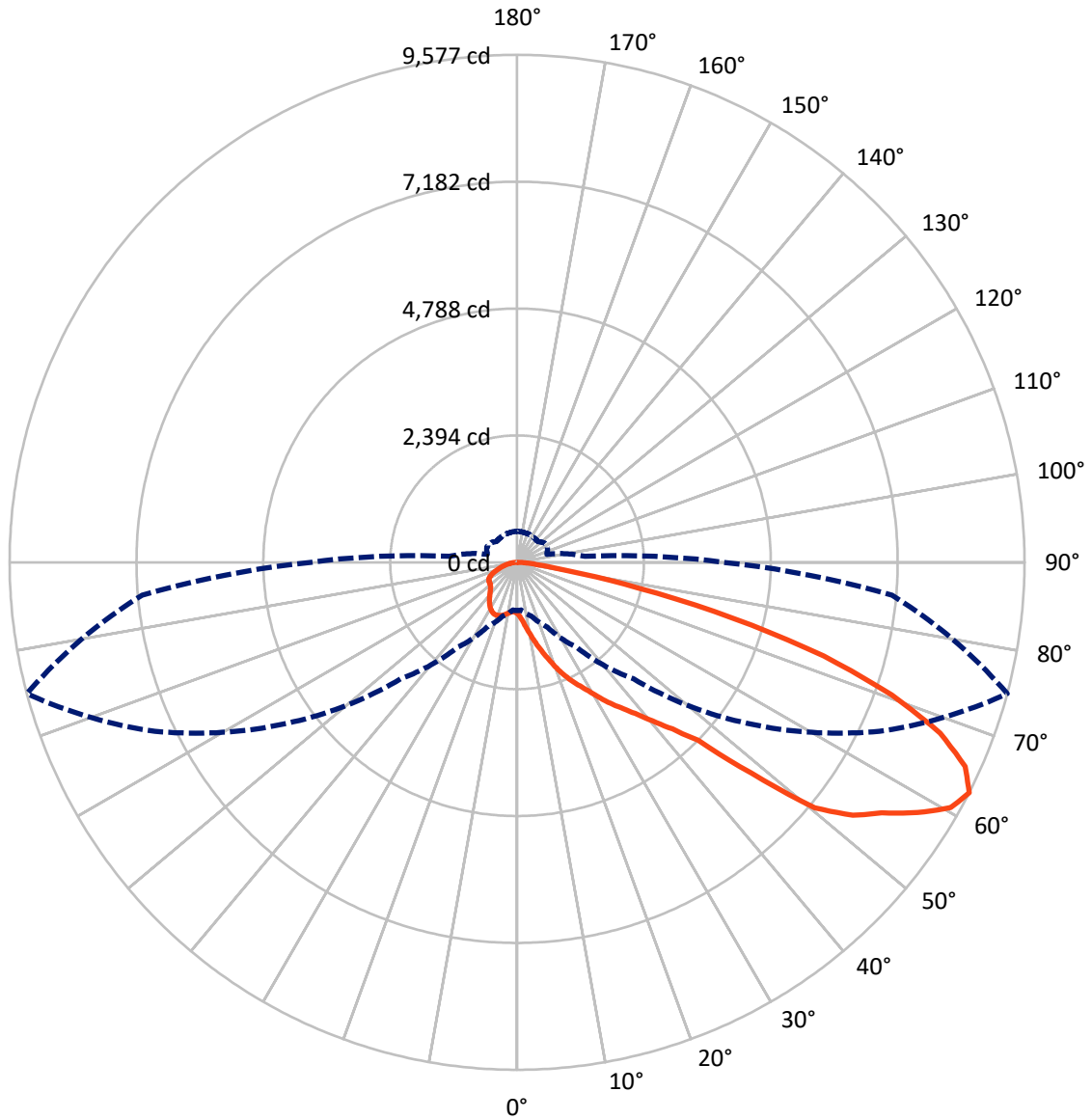
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P572780
CATALOG NUMBER: ARCH-S-PA2-110-827-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P572780
 CATALOG NUMBER: ARCH-S-PA2-110-827-U-T2R

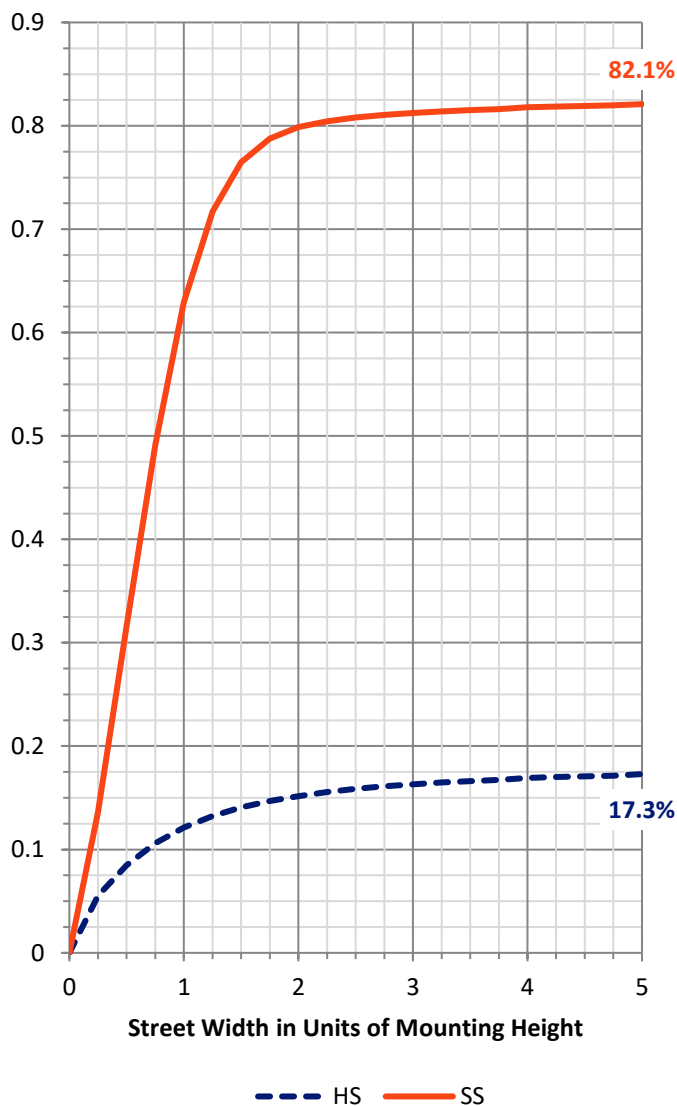
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1956.5	0.0	1956.5
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	9136.5	0.0	9136.5
	% Fixture	82.4	0.0	82.4
Total	Lumens	11093.0	0.0	11093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	1.0
10°-20°	459.0	4.1
20°-30°	908.1	8.2
30°-40°	1513.7	13.6
40°-50°	2233.7	20.1
50°-60°	2685.1	24.2
60°-70°	2086.8	18.8
70°-80°	923.2	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°	11093.0	100.0
0°-180°	11093.0	100.0

Coefficient of Utilization



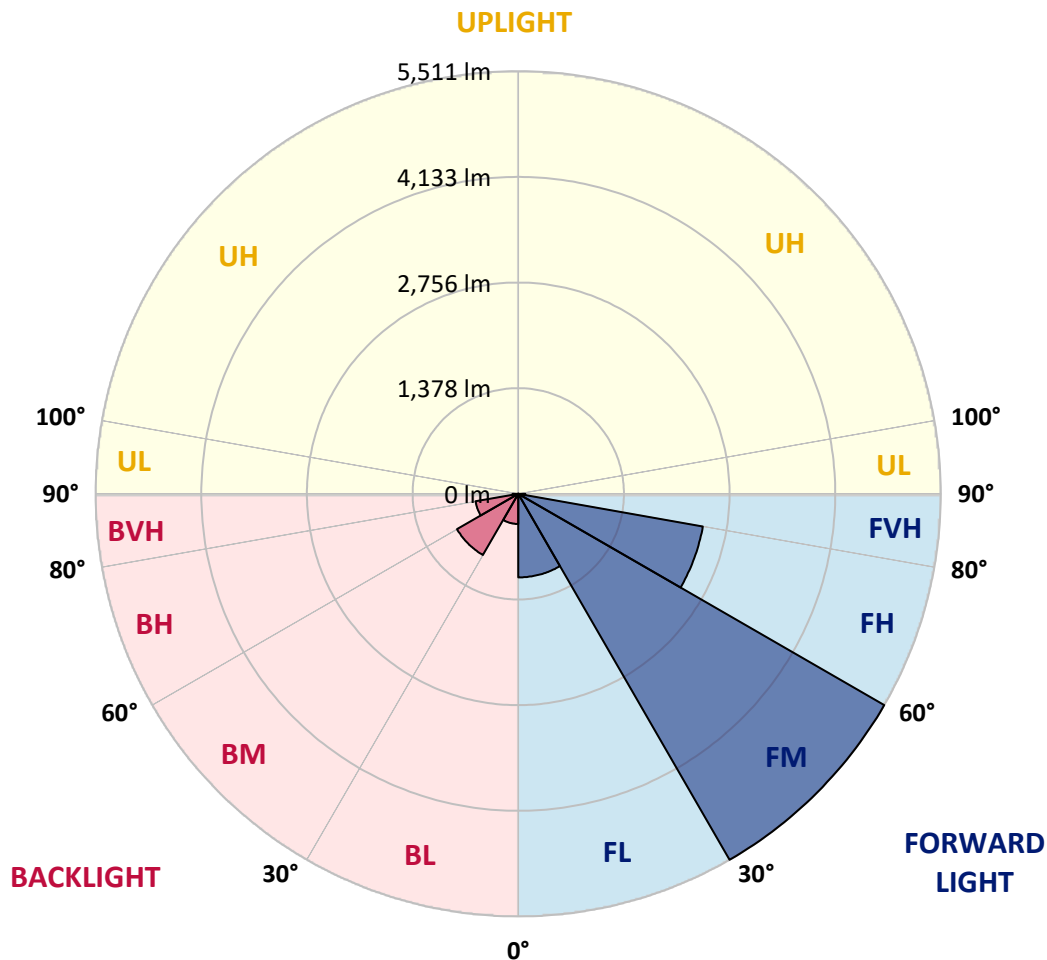
REPORT NUMBER: P572780
 CATALOG NUMBER: ARCH-S-PA2-110-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.6	9.8			
FM (30°-60°)	5511.0	49.7			
FH (60°-80°)	2444.0	22.0			G2/5000
FVH (80°-90°)	91.9	0.8			G1/100
BL (0°-30°)	393.7	3.5	B1/500		
BM (30°-60°)	921.5	8.3	B1/1000		
BH (60°-80°)	566.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	75.3	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





REPORT NUMBER: P572780

CATALOG NUMBER: ARCH-S-PA2-110-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9
2.5°	1236.4	1200.4	1200.4	1161.5	1164.5	1131.6	1095.7	1059.7	1020.8	990.9	975.9
5°	1616.6	1589.6	1580.6	1535.7	1463.9	1383.1	1296.2	1206.4	1113.6	1041.8	1005.9
7.5°	1972.8	1951.8	1939.9	1889.0	1790.2	1703.4	1565.7	1401.0	1242.4	1107.6	1053.8
10°	2236.2	2221.3	2197.3	2173.4	2101.5	2026.7	1856.0	1622.5	1389.0	1188.5	1107.6
12.5°	2427.8	2406.9	2406.9	2403.9	2356.0	2287.1	2128.5	1877.0	1559.7	1278.3	1167.5
15°	2556.6	2553.6	2562.5	2580.5	2568.5	2523.6	2365.0	2110.5	1733.3	1380.1	1236.4
17.5°	2652.4	2640.4	2658.3	2706.2	2742.2	2724.2	2592.5	2335.0	1924.9	1490.8	1311.2
20°	2757.1	2733.2	2757.1	2817.0	2861.9	2888.8	2826.0	2550.6	2131.5	1610.6	1383.1
22.5°	2957.7	2954.7	2942.7	2960.7	2990.6	3038.5	3002.6	2769.1	2332.0	1730.3	1466.9
25°	3316.9	3284.0	3251.1	3212.2	3179.2	3194.2	3164.3	2972.7	2514.6	1862.0	1538.7
27.5°	3718.1	3682.2	3622.3	3526.5	3436.7	3382.8	3319.9	3149.3	2691.3	1981.8	1607.6
30°	4086.3	4074.3	3984.5	3879.7	3724.1	3625.3	3505.5	3352.9	2903.8	2113.5	1679.4
32.5°	4430.6	4406.6	4316.8	4206.0	4023.4	3912.7	3748.0	3574.4	3146.3	2275.2	1754.3
35°	4726.9	4703.0	4598.2	4457.5	4298.8	4203.0	4014.5	3772.0	3367.8	2415.9	1817.1
37.5°	4951.5	4924.5	4825.7	4688.0	4547.3	4502.4	4340.8	4023.4	3619.3	2592.5	1895.0
40°	5077.2	5044.3	4978.4	4882.6	4765.8	4744.9	4676.0	4334.8	3936.6	2808.0	2008.7
42.5°	5092.2	5062.2	5026.3	5017.3	5008.3	5026.3	5059.2	4688.0	4298.8	3095.4	2176.4
45°	4960.4	4942.5	4945.5	5047.3	5188.0	5352.6	5550.2	5208.9	4786.8	3643.2	2553.6
47.5°	4679.0	4670.1	4735.9	4906.6	5220.9	5595.1	6154.9	6101.0	5942.3	4526.4	3038.5
50°	4224.0	4209.0	4349.7	4619.2	5068.2	5675.9	6562.0	7151.8	7283.5	5211.9	3355.9
52.5°	3571.4	3589.4	3807.9	4176.1	4718.0	5589.1	6729.7	7582.9	7930.1	5717.8	3598.3
55°	2903.8	2876.9	3074.5	3529.5	4200.1	5271.8	6762.6	7831.3	8349.2	6184.8	3834.8
57.5°	2116.5	2182.4	2391.9	2805.0	3532.5	4697.0	6571.0	8002.0	8912.0	6651.8	4053.4
60°	1433.9	1433.9	1619.6	2032.7	2730.2	3999.5	6059.1	7939.1	9403.0	7017.1	4101.3
62.5°	913.1	904.1	1053.8	1347.1	1954.8	3107.4	5292.7	7543.9	9576.6	7103.9	3900.7
65°	577.8	589.7	643.6	823.2	1251.3	2206.3	4248.0	6756.6	9292.2	6903.3	3550.4
67.5°	464.0	467.0	493.9	568.8	769.4	1416.0	3149.3	5669.9	8612.7	6397.4	3140.3
70°	410.1	416.1	422.1	449.0	526.9	895.1	2068.6	4565.3	7499.0	5517.2	2700.2
72.5°	374.2	380.2	386.2	392.2	434.1	583.8	1221.4	3460.6	6050.1	4239.0	2059.6
75°	344.3	350.3	350.3	353.2	377.2	434.1	670.6	2385.9	4212.0	2637.4	1284.3
77.5°	308.3	311.3	311.3	317.3	341.3	341.3	416.1	1475.9	2338.0	1194.5	649.6
80°	260.4	266.4	266.4	275.4	299.4	263.4	278.4	754.4	969.9	491.0	290.4
82.5°	191.6	203.6	209.6	224.5	239.5	200.6	200.6	380.2	410.1	218.5	155.7
85°	104.8	107.8	155.7	167.6	176.6	119.7	134.7	188.6	203.6	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	21.0
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: P572780

CATALOG NUMBER: ARCH-S-PA2-110-827-U-T2R

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9
2.5°	963.9	940.0	919.0	904.1	889.1	880.1	877.1	871.1	871.1	874.1
5°	975.9	934.0	901.1	883.1	871.1	865.2	862.2	862.2	865.2	865.2
7.5°	1005.9	943.0	913.1	898.1	886.1	880.1	880.1	877.1	880.1	880.1
10°	1047.8	969.9	937.0	919.0	910.1	901.1	898.1	895.1	895.1	895.1
12.5°	1092.7	999.9	963.9	943.0	928.0	916.0	910.1	904.1	901.1	901.1
15°	1134.6	1029.8	981.9	958.0	937.0	919.0	907.1	898.1	895.1	895.1
17.5°	1179.5	1050.8	993.9	961.0	934.0	910.1	895.1	883.1	877.1	877.1
20°	1227.4	1065.7	993.9	952.0	916.0	892.1	874.1	862.2	850.2	850.2
22.5°	1266.3	1071.7	981.9	931.0	895.1	865.2	847.2	832.2	823.2	823.2
25°	1299.2	1065.7	955.0	898.1	856.2	829.2	811.3	799.3	790.3	790.3
27.5°	1320.2	1041.8	922.0	862.2	823.2	796.3	784.3	772.4	766.4	766.4
30°	1332.2	1011.8	880.1	823.2	784.3	769.4	763.4	751.4	742.4	739.4
32.5°	1338.2	966.9	838.2	784.3	757.4	751.4	751.4	736.4	724.5	721.5
35°	1332.2	919.0	796.3	751.4	742.4	745.4	739.4	721.5	706.5	700.5
37.5°	1323.2	862.2	751.4	727.5	736.4	742.4	724.5	700.5	676.6	670.6
40°	1317.2	811.3	715.5	703.5	730.4	733.4	700.5	655.6	637.6	631.7
42.5°	1347.1	760.4	682.5	685.5	715.5	718.5	658.6	637.6	625.7	622.7
45°	1448.9	715.5	655.6	673.6	697.5	685.5	637.6	634.6	625.7	622.7
47.5°	1526.7	682.5	643.6	664.6	682.5	640.6	634.6	631.7	622.7	619.7
50°	1553.7	661.6	640.6	658.6	661.6	619.7	628.7	628.7	619.7	616.7
52.5°	1556.7	649.6	646.6	655.6	628.7	610.7	622.7	622.7	613.7	610.7
55°	1568.7	643.6	649.6	655.6	592.7	598.7	610.7	613.7	604.7	601.7
57.5°	1544.7	634.6	655.6	658.6	577.8	586.8	598.7	598.7	598.7	598.7
60°	1451.9	616.7	652.6	652.6	565.8	571.8	583.8	589.7	592.7	592.7
62.5°	1281.3	580.8	634.6	634.6	553.8	559.8	574.8	574.8	583.8	583.8
65°	1065.7	529.9	598.7	595.7	541.8	547.8	565.8	559.8	574.8	577.8
67.5°	889.1	467.0	544.8	550.8	529.9	544.8	556.8	535.9	565.8	565.8
70°	709.5	392.2	473.0	499.9	508.9	547.8	538.9	505.9	544.8	535.9
72.5°	550.8	332.3	389.2	437.1	485.0	544.8	499.9	464.0	488.0	473.0
75°	401.1	275.4	320.3	362.2	452.0	535.9	461.0	407.1	407.1	401.1
77.5°	281.4	224.5	257.5	287.4	419.1	511.9	413.1	350.3	335.3	332.3
80°	191.6	176.6	203.6	221.5	371.2	464.0	356.2	290.4	263.4	257.5
82.5°	125.7	125.7	137.7	149.7	287.4	386.2	278.4	215.5	278.4	266.4
85°	71.8	74.8	74.8	86.8	158.7	272.4	197.6	215.5	128.7	119.7
87.5°	23.9	23.9	23.9	23.9	32.9	110.8	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)