

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: P348588

Luminaire Tested: **ARCH-N-PA1-60-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-60-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6383 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 62
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

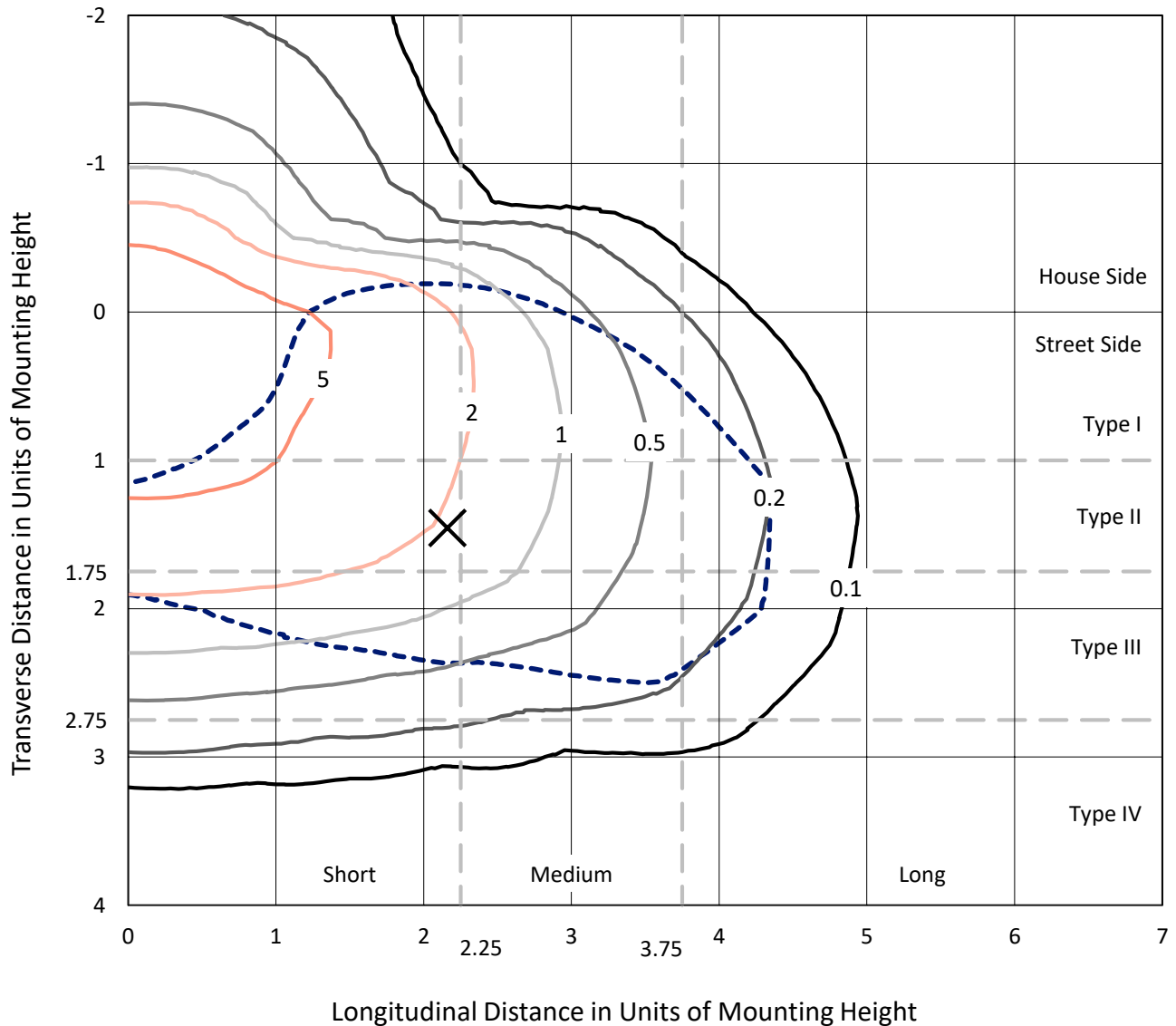


REPORT NUMBER: P348588

CATALOG NUMBER: ARCH-N-PA1-60-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

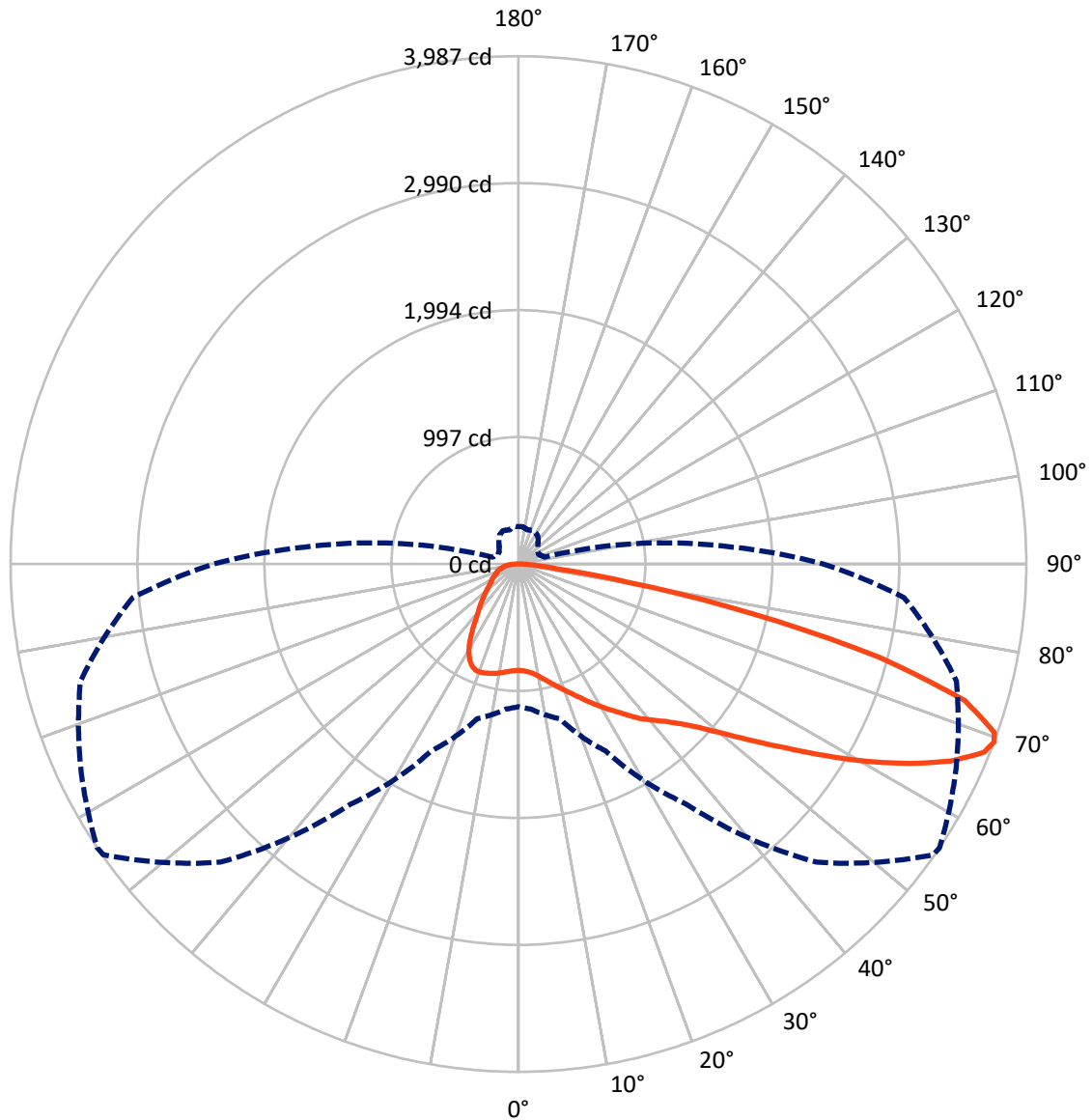


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P348588

CATALOG NUMBER: ARCH-N-PA1-60-727-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P348588

CATALOG NUMBER: ARCH-N-PA1-60-727-U-T3

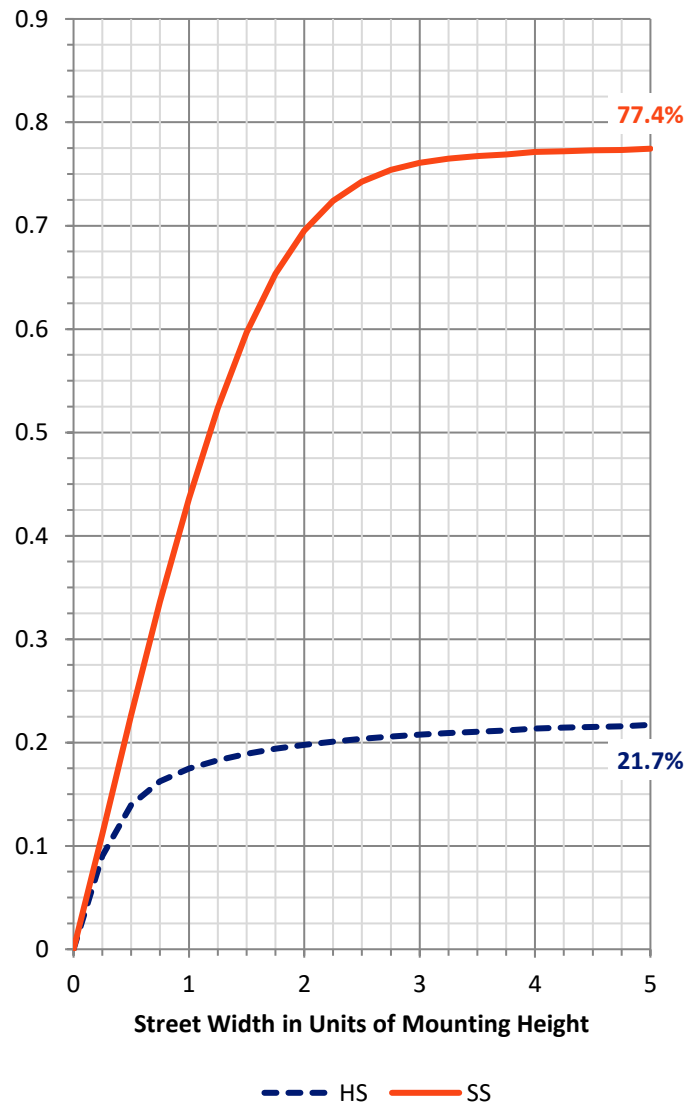
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1421.5	0.0	1421.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	4961.5	0.0	4961.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	6383.0	0.0	6383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	1.3
10°-20°	263.5	4.1
20°-30°	460.1	7.2
30°-40°	660.9	10.4
40°-50°	914.6	14.3
50°-60°	1340.0	21.0
60°-70°	1633.7	25.6
70°-80°	903.2	14.2
80°-90°	125.1	2.0
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°	6383.0	100.0
0°-180°	6383.0	100.0

Coefficient of Utilization



REPORT NUMBER: P348588

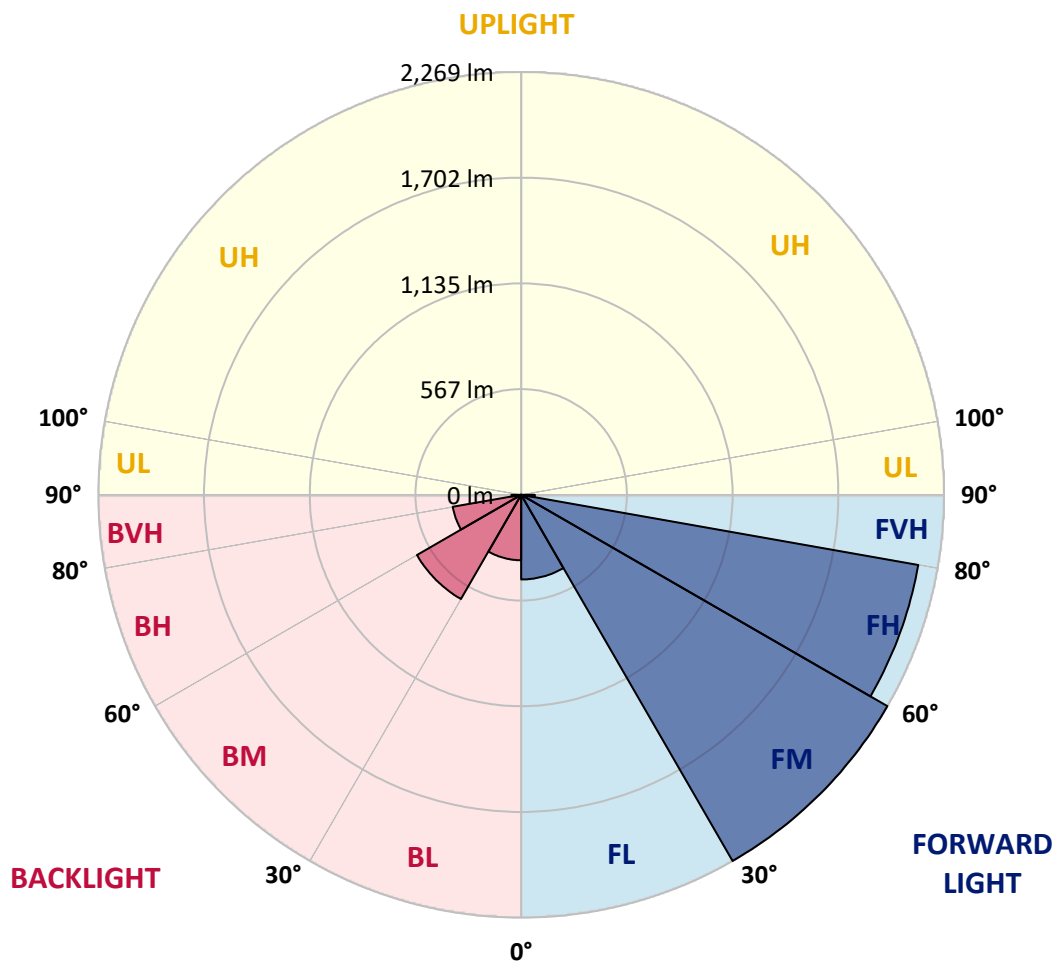
CATALOG NUMBER: ARCH-N-PA1-60-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	454.3	7.1			
FM	(30°-60°)	2269.4	35.6			
FH	(60°-80°)	2164.2	33.9			G2/5000
FVH	(80°-90°)	73.7	1.2			G1/100
BL	(0°-30°)	351.3	5.5	B1/500		
BM	(30°-60°)	646.0	10.1	B1/1000		
BH	(60°-80°)	372.8	5.8	B1/500		G1/500
BVH	(80°-90°)	51.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P348588

CATALOG NUMBER: ARCH-N-PA1-60-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5
2.5°	839.8	840.6	840.0	841.7	839.8	841.1	840.0	840.0	839.3	837.3	835.1
5°	853.0	854.7	853.6	855.4	853.0	853.4	851.4	851.4	849.4	845.3	840.9
7.5°	873.6	875.6	874.7	876.5	873.2	873.2	870.5	870.3	866.4	859.5	854.5
10°	898.2	900.9	900.0	902.6	900.0	900.9	898.2	898.2	893.0	883.3	876.9
12.5°	934.1	937.4	935.0	934.8	933.7	935.4	933.2	932.8	927.9	914.7	905.9
15°	982.0	985.5	980.5	980.0	973.9	973.2	973.2	972.6	969.5	953.7	939.1
17.5°	1037.2	1038.3	1033.9	1026.9	1019.0	1013.9	1013.3	1015.0	1015.0	996.5	973.5
20°	1091.3	1093.3	1089.8	1081.9	1071.7	1064.3	1059.0	1062.5	1062.3	1040.3	1007.5
22.5°	1150.2	1154.9	1149.6	1139.5	1127.6	1119.2	1110.0	1113.1	1113.3	1086.3	1041.0
25°	1226.5	1222.4	1219.1	1204.8	1187.8	1179.3	1170.7	1173.8	1172.9	1135.7	1075.5
27.5°	1294.1	1294.9	1290.5	1275.4	1255.8	1236.9	1236.4	1238.4	1235.1	1187.2	1108.0
30°	1372.6	1373.0	1366.8	1353.2	1331.9	1307.5	1301.7	1305.0	1298.0	1236.0	1142.3
32.5°	1450.6	1452.8	1446.0	1429.5	1412.4	1382.7	1371.2	1373.4	1355.8	1285.9	1177.7
35°	1519.0	1522.1	1519.9	1508.9	1490.2	1464.7	1451.1	1449.7	1428.0	1347.0	1224.6
37.5°	1588.7	1591.6	1589.1	1579.9	1572.4	1545.4	1538.1	1538.1	1500.3	1409.5	1284.2
40°	1660.4	1664.8	1661.9	1649.2	1642.8	1630.5	1613.1	1608.9	1568.0	1484.5	1381.3
42.5°	1727.0	1732.7	1744.2	1736.7	1723.7	1725.5	1690.5	1688.3	1658.4	1595.3	1503.4
45°	1821.6	1829.9	1849.3	1843.6	1840.9	1831.2	1789.7	1787.7	1776.3	1744.4	1654.9
47.5°	1924.7	1936.1	1971.1	1972.2	2000.6	1982.3	1925.8	1919.0	1921.6	1922.9	1839.8
50°	2019.7	2032.2	2089.6	2116.7	2183.5	2187.5	2097.1	2090.9	2101.3	2131.6	2055.3
52.5°	2095.5	2111.4	2183.1	2266.6	2381.2	2413.7	2308.0	2303.3	2311.0	2363.4	2298.9
55°	2151.2	2168.3	2246.4	2398.6	2581.5	2638.9	2550.7	2546.3	2551.2	2617.8	2563.9
57.5°	2164.2	2168.3	2281.6	2487.4	2750.6	2888.5	2847.8	2839.0	2815.2	2873.3	2856.4
60°	2103.2	2120.0	2252.5	2518.6	2881.4	3134.5	3158.3	3147.3	3080.7	3128.1	3114.5
62.5°	1979.7	2009.6	2144.1	2471.1	2932.7	3335.5	3462.8	3449.6	3334.8	3365.6	3300.1
65°	1777.8	1790.6	1932.0	2307.3	2867.6	3464.1	3734.4	3727.8	3583.3	3535.2	3334.4
67.5°	1416.7	1440.7	1560.8	1964.9	2601.3	3449.0	3944.4	3943.7	3745.6	3598.1	3212.8
69°	1119.2	1144.1	1258.4	1618.6	2301.8	3310.2	3979.6	3987.3	3791.3	3559.8	3039.1
70°	892.3	921.1	999.6	1363.3	2036.0	3127.3	3950.3	3964.2	3782.5	3496.7	2878.8
72.5°	379.7	403.1	458.9	702.8	1240.8	2335.2	3611.9	3664.2	3578.7	3200.3	2379.2
75°	165.8	173.1	198.3	286.5	550.8	1271.0	2829.5	2926.3	3060.0	2705.1	1772.3
77.5°	121.4	124.5	138.3	168.2	247.2	480.0	1819.6	1875.9	2206.8	1968.5	1087.1
80°	93.9	96.1	106.9	123.6	161.4	194.2	829.9	878.2	1240.8	1011.1	452.8
82.5°	74.8	76.3	83.8	91.0	111.5	117.6	275.5	305.6	458.0	279.3	119.8
85°	69.5	71.2	73.9	66.4	71.5	69.0	119.2	124.7	138.3	109.7	50.1
87.5°	31.4	37.2	73.2	51.7	38.0	30.3	48.8	51.0	57.4	57.6	22.2
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: P348588

CATALOG NUMBER: ARCH-N-PA1-60-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5
2.5°	836.5	835.8	836.9	834.3	837.6	837.3	836.2	836.7	838.9	838.7	838.9
5°	841.5	841.1	842.4	840.4	844.4	845.7	845.9	847.9	850.3	851.0	851.0
7.5°	854.3	854.3	854.9	852.3	854.9	854.7	853.6	855.6	858.0	858.2	858.0
10°	876.3	876.5	875.4	868.6	866.4	860.4	854.9	855.2	858.2	860.6	861.3
12.5°	904.0	903.1	898.2	885.7	876.5	864.4	858.7	858.4	861.5	863.5	864.2
15°	935.6	933.2	920.7	900.2	884.0	872.1	862.8	860.6	858.9	856.7	856.9
17.5°	965.5	960.0	939.1	910.8	893.6	877.8	860.0	845.7	835.8	830.1	828.3
20°	995.9	985.1	955.0	920.7	898.9	870.1	835.8	806.8	788.7	780.4	778.8
22.5°	1023.6	1006.2	969.7	931.0	894.7	844.2	790.3	748.1	723.0	711.8	712.7
25°	1050.6	1026.4	985.1	938.3	873.6	798.4	727.0	675.1	646.0	633.5	633.1
27.5°	1074.4	1046.9	1001.8	932.3	834.3	733.3	652.0	601.4	577.2	566.4	564.7
30°	1101.6	1072.6	1024.0	909.7	776.7	658.1	578.7	543.1	526.0	515.2	513.2
32.5°	1134.9	1107.6	1042.3	868.6	703.0	579.6	521.6	496.7	481.1	469.0	466.8
35°	1183.2	1153.8	1046.9	809.6	622.1	517.6	479.6	454.1	433.0	417.4	415.8
37.5°	1243.9	1211.6	1036.3	733.3	543.6	477.4	444.6	413.2	385.7	363.7	360.2
40°	1331.4	1282.6	1007.1	645.4	485.7	446.4	410.5	374.7	340.6	314.9	309.8
42.5°	1436.5	1366.0	962.2	557.9	443.3	414.9	376.7	332.3	299.7	281.5	278.8
45°	1570.2	1452.6	900.0	481.3	401.5	383.5	340.2	299.3	279.0	265.6	263.4
47.5°	1722.8	1549.8	834.7	419.1	366.1	354.0	310.9	284.5	268.5	257.9	256.0
50°	1910.4	1659.5	765.4	368.1	330.5	318.6	297.1	276.4	263.6	255.5	253.5
52.5°	2121.9	1783.3	715.5	327.9	301.0	292.5	289.8	272.0	261.7	255.5	253.5
55°	2349.7	1909.3	661.6	294.0	275.5	277.9	285.0	272.4	265.4	257.9	255.1
57.5°	2577.8	2039.5	601.6	265.4	255.3	267.2	281.7	273.3	267.4	260.1	257.5
60°	2758.1	2121.9	508.6	241.4	239.2	255.3	273.8	266.7	259.0	259.2	258.8
62.5°	2842.3	2117.5	405.9	220.1	223.2	239.2	261.0	256.4	250.0	258.6	259.2
65°	2795.0	2012.0	316.0	200.8	206.0	222.5	247.8	251.3	253.5	270.0	272.2
67.5°	2596.7	1806.6	244.7	183.8	190.4	211.1	249.1	273.8	276.6	294.0	293.8
69°	2391.5	1614.0	212.6	175.0	182.7	214.0	266.3	288.1	277.3	295.8	293.1
70°	2219.6	1461.6	195.5	169.1	179.2	219.0	277.7	287.8	274.0	289.8	285.4
72.5°	1709.4	1051.5	165.8	158.1	167.3	209.6	281.0	281.5	266.3	269.4	261.9
75°	1172.5	664.5	144.7	143.1	149.3	188.9	270.5	268.9	246.3	241.9	235.7
77.5°	646.5	337.5	122.9	128.9	133.0	167.3	245.8	243.6	224.9	215.7	213.5
80°	249.4	147.8	103.8	114.6	117.2	144.9	215.5	213.5	197.9	186.0	182.7
82.5°	94.1	77.4	85.8	99.2	98.3	119.6	182.5	181.4	166.2	148.9	143.6
85°	43.5	46.4	67.9	81.8	75.4	88.6	146.0	148.0	129.5	108.8	108.8
87.5°	18.5	25.9	48.2	61.8	50.8	59.8	107.1	102.2	93.9	65.1	61.1
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)