

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: P348623

Luminaire Tested: **ARCH-N-PA1-60-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348623
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-PA1-60-827-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5610 lumens
Efficiency: N/A
Efficacy: 90.5 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

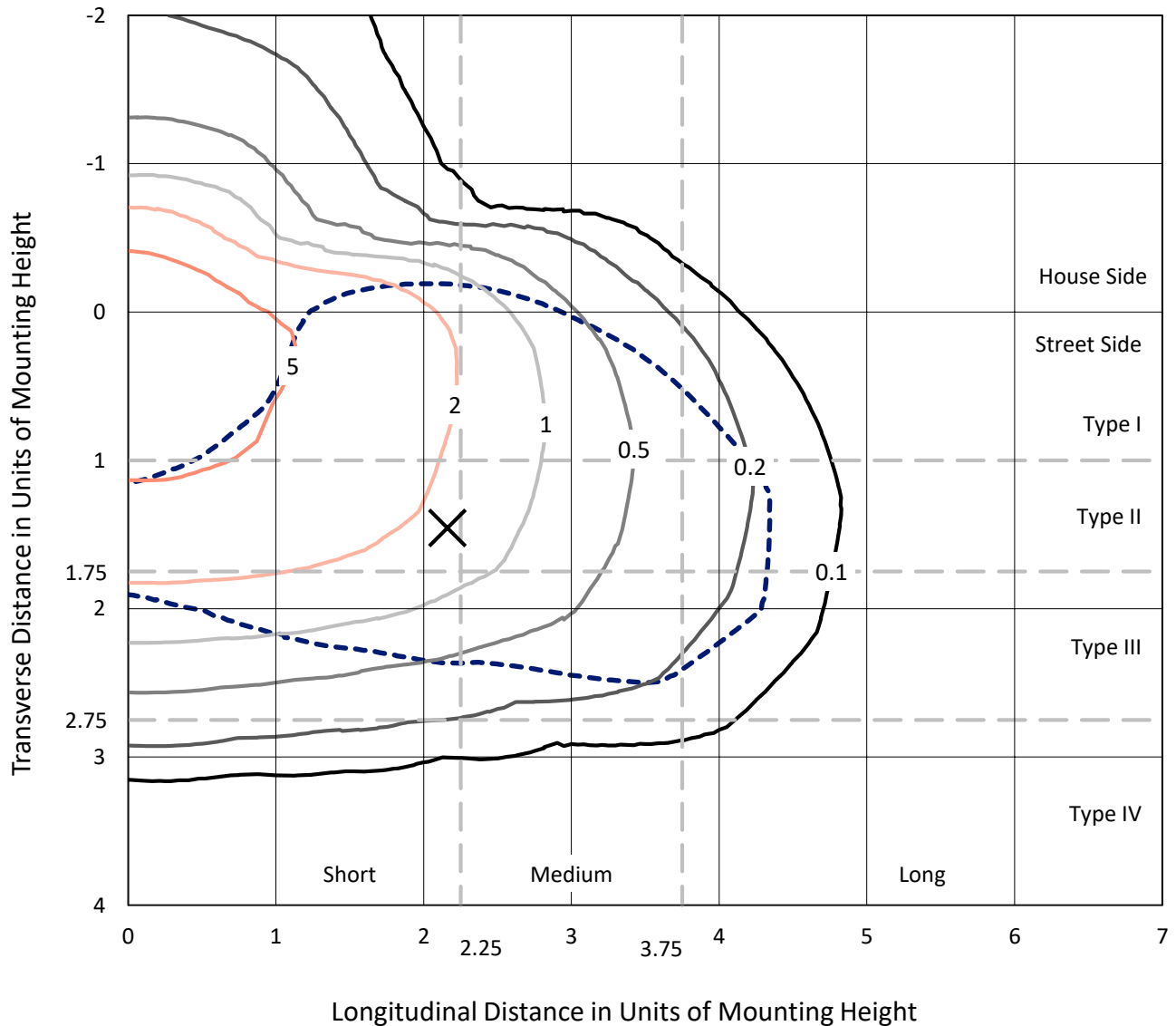
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348623
 CATALOG NUMBER: ARCH-N-PA1-60-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

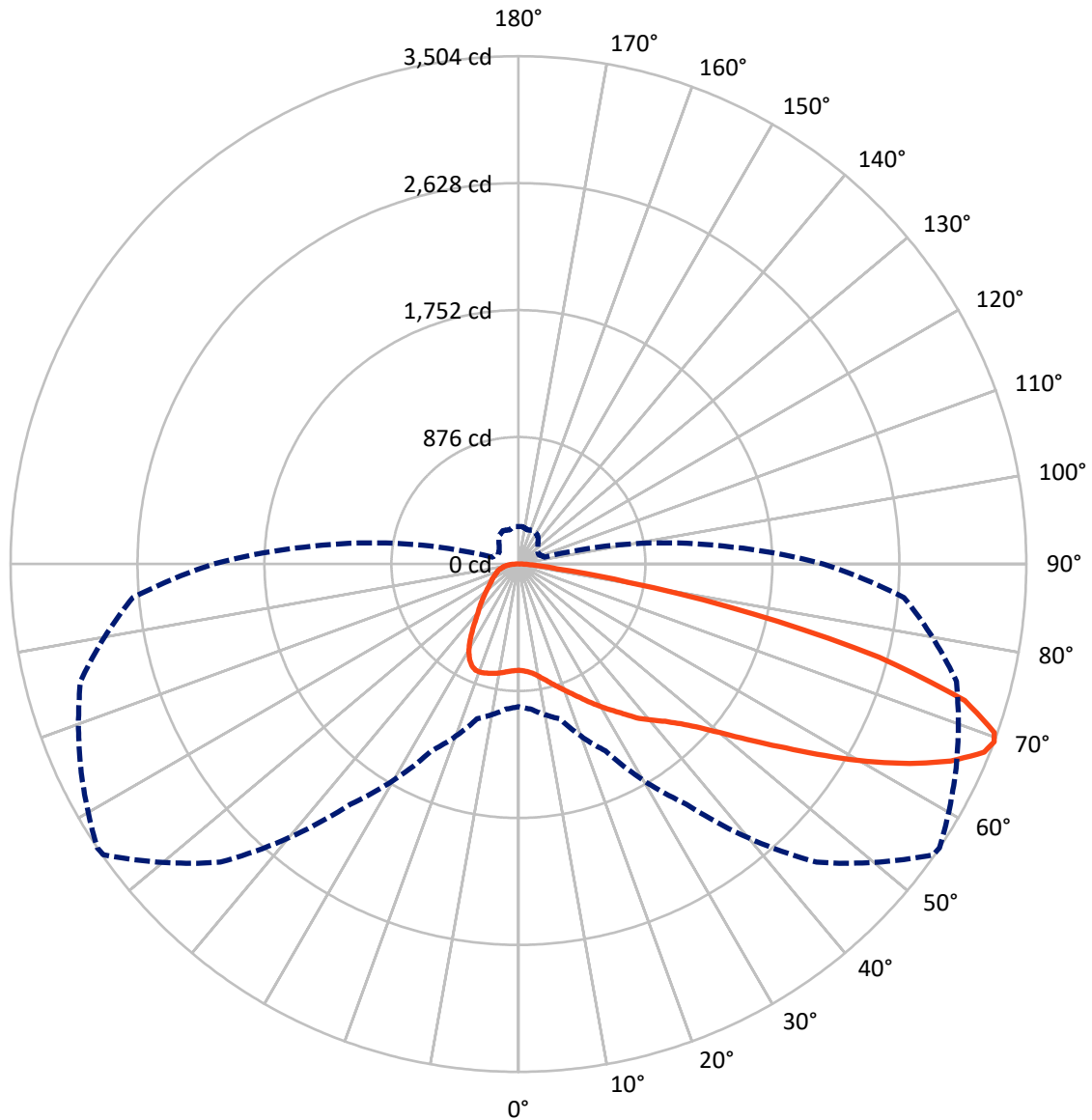


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P348623

CATALOG NUMBER: ARCH-N-PA1-60-827-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P348623

CATALOG NUMBER: ARCH-N-PA1-60-827-U-T3

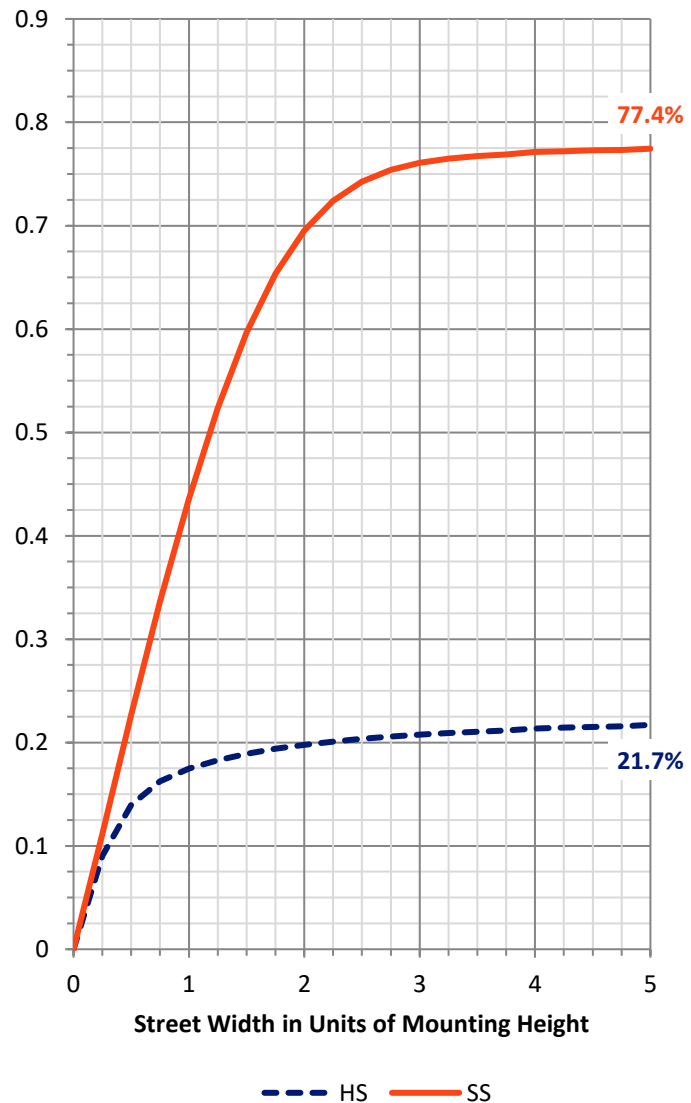
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1249.3	0.0	1249.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	4360.7	0.0	4360.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	5610.0	0.0	5610.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	1.3
10°-20°	231.6	4.1
20°-30°	404.3	7.2
30°-40°	580.8	10.4
40°-50°	803.8	14.3
50°-60°	1177.7	21.0
60°-70°	1435.9	25.6
70°-80°	793.8	14.2
80°-90°	109.9	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°	5610.0	100.0
0°-180°	5610.0	100.0



REPORT NUMBER: P348623

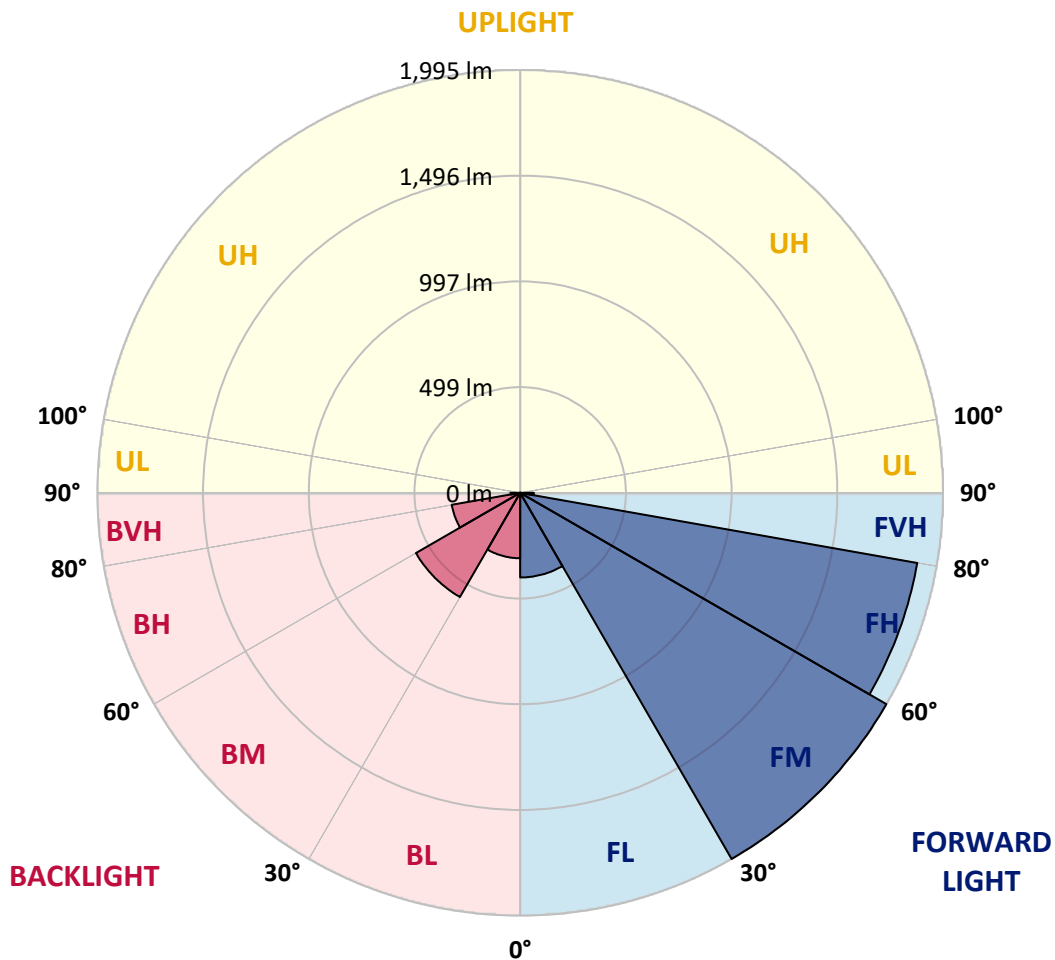
CATALOG NUMBER: ARCH-N-PA1-60-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	399.3	7.1			
FM	(30°-60°)	1994.6	35.6			
FH	(60°-80°)	1902.1	33.9			G2/5000
FVH	(80°-90°)	64.8	1.2			G1/100
BL	(0°-30°)	308.7	5.5	B1/500		
BM	(30°-60°)	567.8	10.1	B1/1000		
BH	(60°-80°)	327.6	5.8	B1/500		G1/500
BVH	(80°-90°)	45.2	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: P348623

CATALOG NUMBER: ARCH-N-PA1-60-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4
2.5°	738.1	738.8	738.3	739.8	738.1	739.2	738.3	738.3	737.7	735.9	734.0
5°	749.7	751.2	750.2	751.8	749.7	750.0	748.3	748.3	746.6	742.9	739.0
7.5°	767.8	769.6	768.8	770.3	767.4	767.4	765.1	764.9	761.4	755.5	751.0
10°	789.5	791.8	791.0	793.3	791.0	791.8	789.5	789.5	784.8	776.3	770.7
12.5°	821.0	823.9	821.7	821.5	820.6	822.1	820.2	819.8	815.6	804.0	796.2
15°	863.1	866.2	861.7	861.4	856.0	855.4	855.4	854.8	852.1	838.2	825.4
17.5°	911.6	912.6	908.7	902.5	895.6	891.1	890.5	892.1	892.1	875.9	855.6
20°	959.2	960.9	957.8	950.8	942.0	935.4	930.7	933.8	933.6	914.3	885.5
22.5°	1010.9	1015.0	1010.4	1001.5	991.0	983.7	975.6	978.3	978.5	954.7	914.9
25°	1078.0	1074.3	1071.4	1058.9	1044.0	1036.5	1028.9	1031.6	1030.9	998.2	945.2
27.5°	1137.3	1138.1	1134.2	1120.9	1103.7	1087.1	1086.7	1088.4	1085.5	1043.4	973.8
30°	1206.3	1206.7	1201.3	1189.3	1170.6	1149.1	1144.1	1147.0	1140.8	1086.3	1004.0
32.5°	1274.9	1276.9	1270.9	1256.4	1241.3	1215.2	1205.2	1207.1	1191.6	1130.2	1035.1
35°	1335.0	1337.7	1335.8	1326.2	1309.7	1287.3	1275.3	1274.2	1255.0	1183.9	1076.3
37.5°	1396.3	1398.8	1396.7	1388.6	1382.0	1358.2	1351.9	1351.9	1318.6	1238.8	1128.6
40°	1459.3	1463.2	1460.7	1449.5	1443.8	1433.0	1417.8	1414.1	1378.1	1304.7	1214.1
42.5°	1517.9	1522.9	1532.9	1526.4	1515.0	1516.5	1485.8	1483.9	1457.6	1402.1	1321.3
45°	1601.0	1608.3	1625.3	1620.3	1618.0	1609.5	1572.9	1571.2	1561.2	1533.1	1454.5
47.5°	1691.6	1701.7	1732.4	1733.4	1758.3	1742.2	1692.6	1686.6	1688.9	1690.1	1617.0
50°	1775.1	1786.1	1836.6	1860.3	1919.1	1922.6	1843.1	1837.7	1846.8	1873.5	1806.4
52.5°	1841.8	1855.7	1918.7	1992.1	2092.8	2121.4	2028.5	2024.4	2031.2	2077.2	2020.5
55°	1890.7	1905.7	1974.3	2108.1	2268.9	2319.3	2241.8	2238.0	2242.2	2300.8	2253.4
57.5°	1902.1	1905.7	2005.3	2186.2	2417.5	2538.7	2502.9	2495.2	2474.3	2525.3	2510.5
60°	1848.5	1863.2	1979.8	2213.6	2532.5	2754.9	2775.8	2766.1	2707.6	2749.3	2737.3
62.5°	1739.9	1766.2	1884.5	2171.9	2577.5	2931.6	3043.5	3031.9	2931.0	2958.0	2900.5
65°	1562.5	1573.7	1698.0	2027.9	2520.3	3044.6	3282.1	3276.3	3149.4	3107.0	2930.6
67.5°	1245.2	1266.2	1371.8	1727.0	2286.3	3031.3	3466.7	3466.1	3292.0	3162.3	2823.7
69°	983.7	1005.5	1106.0	1422.6	2023.0	2909.3	3497.6	3504.4	3332.2	3128.7	2671.1
70°	784.3	809.6	878.6	1198.2	1789.4	2748.5	3471.9	3484.1	3324.5	3073.2	2530.2
72.5°	333.8	354.2	403.3	617.7	1090.6	2052.4	3174.5	3220.5	3145.3	2812.7	2091.1
75°	145.7	152.1	174.3	251.8	484.1	1117.0	2486.9	2571.9	2689.4	2377.5	1557.7
77.5°	106.7	109.4	121.6	147.8	217.2	421.9	1599.2	1648.7	1939.6	1730.1	955.5
80°	82.5	84.5	93.9	108.6	141.9	170.6	729.4	771.9	1090.6	888.6	397.9
82.5°	65.7	67.1	73.6	80.0	98.0	103.4	242.2	268.6	402.6	245.4	105.3
85°	61.1	62.6	64.9	58.4	62.8	60.7	104.7	109.6	121.6	96.4	44.1
87.5°	27.6	32.7	64.4	45.4	33.4	26.7	42.9	44.8	50.4	50.6	19.5
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: P348623

CATALOG NUMBER: ARCH-N-PA1-60-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4
2.5°	735.2	734.6	735.5	733.2	736.1	735.9	735.0	735.4	737.3	737.1	737.3
5°	739.6	739.2	740.4	738.6	742.1	743.3	743.5	745.2	747.3	747.9	747.9
7.5°	750.8	750.8	751.4	749.1	751.4	751.2	750.2	752.0	754.1	754.3	754.1
10°	770.1	770.3	769.4	763.4	761.4	756.2	751.4	751.6	754.3	756.4	757.0
12.5°	794.5	793.7	789.5	778.5	770.3	759.7	754.7	754.5	757.2	758.9	759.5
15°	822.3	820.2	809.2	791.2	776.9	766.5	758.4	756.4	754.9	752.9	753.1
17.5°	848.6	843.8	825.4	800.5	785.4	771.5	755.8	743.3	734.6	729.6	728.0
20°	875.3	865.8	839.3	809.2	790.0	764.7	734.6	709.1	693.2	685.9	684.5
22.5°	899.6	884.4	852.3	818.3	786.4	741.9	694.6	657.5	635.4	625.6	626.4
25°	923.4	902.1	865.8	824.6	767.8	701.7	638.9	593.3	567.8	556.8	556.4
27.5°	944.3	920.1	880.5	819.4	733.2	644.5	573.0	528.6	507.3	497.8	496.3
30°	968.2	942.7	900.0	799.5	682.6	578.4	508.7	477.4	462.3	452.8	451.1
32.5°	997.4	973.5	916.1	763.4	617.9	509.4	458.4	436.6	422.9	412.2	410.3
35°	1039.9	1014.0	920.1	711.6	546.7	454.9	421.5	399.1	380.5	366.8	365.5
37.5°	1093.3	1064.9	910.8	644.5	477.7	419.6	390.8	363.1	339.0	319.7	316.6
40°	1170.2	1127.3	885.1	567.2	426.9	392.3	360.8	329.3	299.4	276.7	272.3
42.5°	1262.6	1200.5	845.7	490.3	389.6	364.7	331.1	292.0	263.4	247.4	245.1
45°	1380.1	1276.7	791.0	423.0	352.9	337.0	299.0	263.0	245.2	233.5	231.5
47.5°	1514.2	1362.1	733.6	368.4	321.8	311.1	273.3	250.1	236.0	226.7	225.0
50°	1679.0	1458.5	672.7	323.5	290.5	280.0	261.1	242.9	231.7	224.6	222.8
52.5°	1865.0	1567.3	628.9	288.2	264.6	257.0	254.7	239.1	230.0	224.6	222.8
55°	2065.2	1678.1	581.5	258.4	242.2	244.3	250.5	239.4	233.3	226.7	224.2
57.5°	2265.6	1792.5	528.8	233.3	224.4	234.8	247.6	240.2	235.0	228.6	226.3
60°	2424.1	1865.0	447.0	212.2	210.3	224.4	240.6	234.4	227.7	227.9	227.5
62.5°	2498.1	1861.1	356.8	193.5	196.2	210.3	229.4	225.3	219.7	227.3	227.9
65°	2456.5	1768.3	277.7	176.4	181.1	195.6	217.8	220.9	222.8	237.3	239.3
67.5°	2282.2	1587.8	215.1	161.6	167.4	185.5	219.0	240.6	243.1	258.4	258.2
69°	2101.9	1418.5	186.9	153.8	160.6	188.0	234.0	253.2	243.7	259.9	257.6
70°	1950.8	1284.6	171.8	148.6	157.5	192.5	244.1	253.0	240.8	254.7	250.9
72.5°	1502.4	924.2	145.7	139.0	147.1	184.2	247.0	247.4	234.0	236.7	230.2
75°	1030.5	584.0	127.2	125.8	131.2	166.0	237.7	236.4	216.5	212.6	207.2
77.5°	568.2	296.7	108.0	113.3	116.9	147.1	216.1	214.1	197.7	189.6	187.7
80°	219.2	129.9	91.2	100.7	103.0	127.4	189.4	187.7	173.9	163.5	160.6
82.5°	82.7	68.0	75.4	87.2	86.4	105.1	160.4	159.4	146.1	130.8	126.2
85°	38.3	40.8	59.7	71.9	66.3	77.9	128.3	130.1	113.8	95.7	95.7
87.5°	16.2	22.8	42.3	54.3	44.6	52.6	94.1	89.9	82.5	57.2	53.7
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)