

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: P348538

Luminaire Tested: **ARCH-N-PA1-50-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-50-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 980mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6238 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

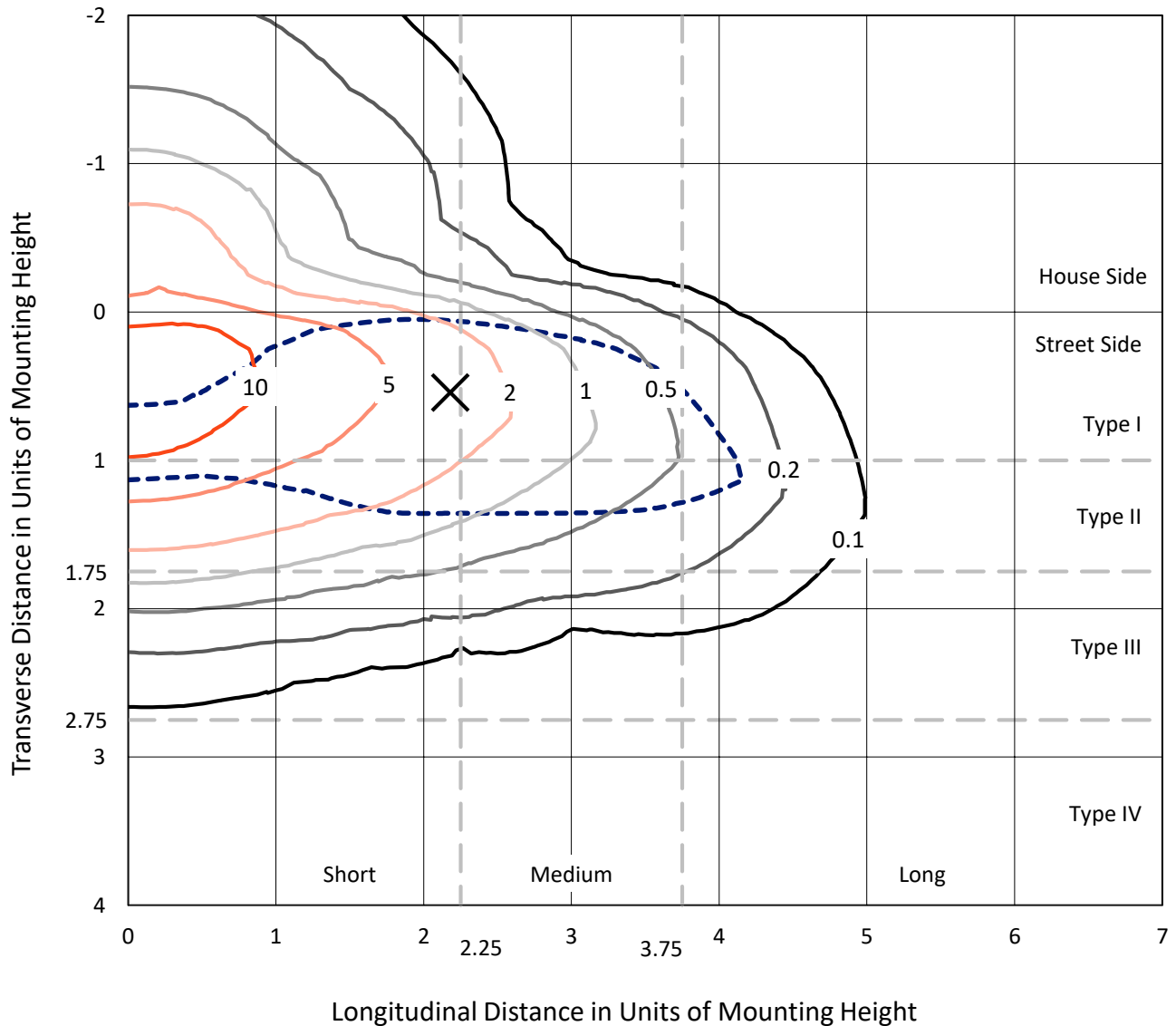
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

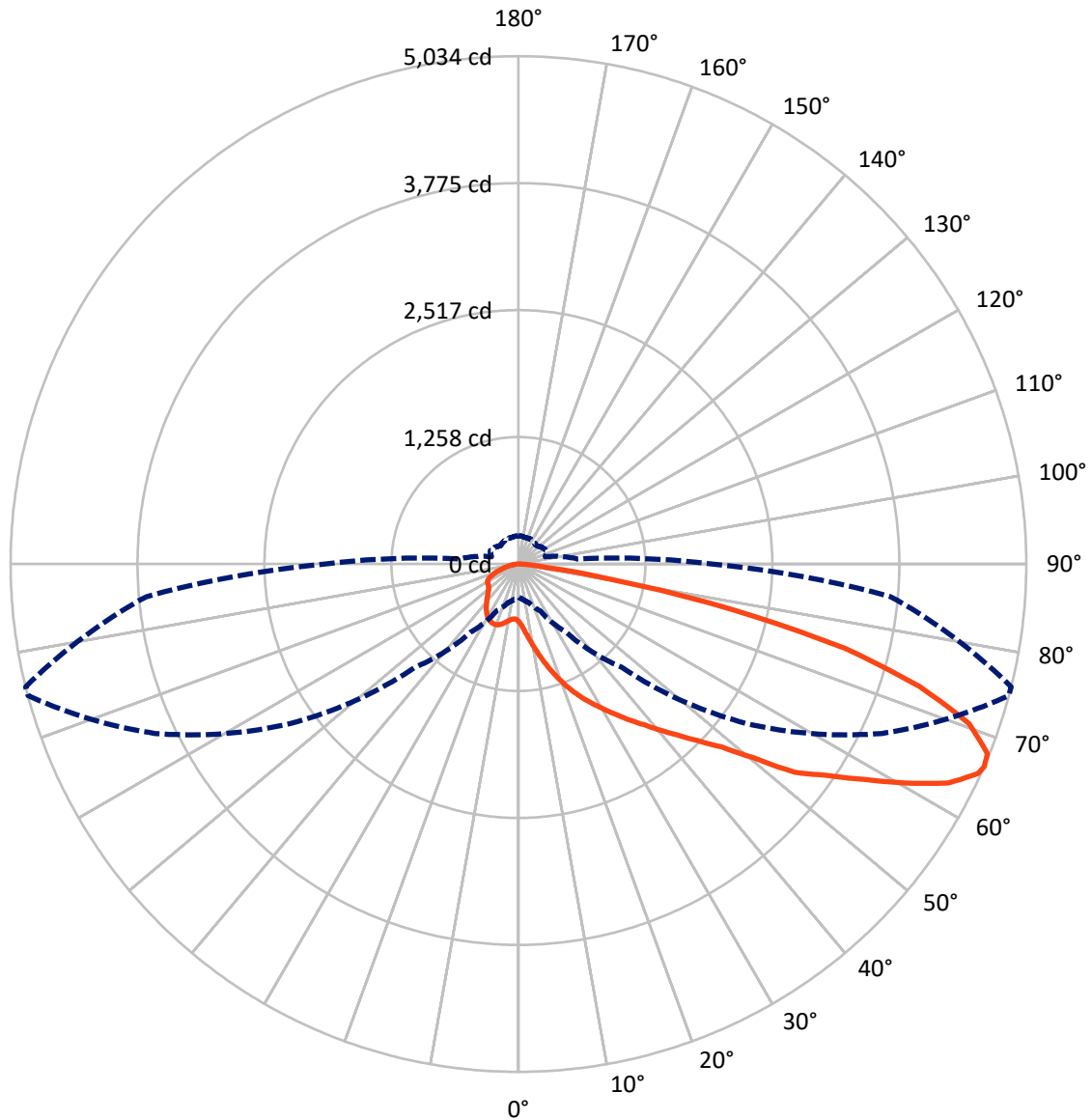
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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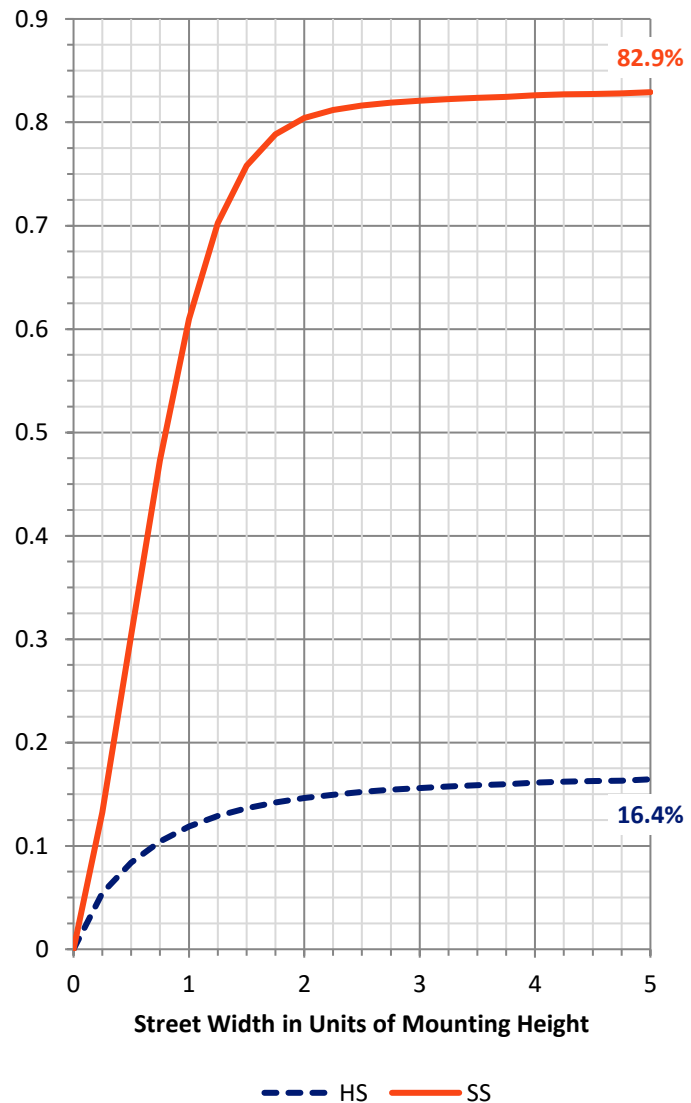
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1049.6	0.0	1049.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5188.4	0.0	5188.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	6238.0	0.0	6238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	1.1
10°-20°	272.0	4.4
20°-30°	528.6	8.5
30°-40°	862.8	13.8
40°-50°	1178.9	18.9
50°-60°	1373.1	22.0
60°-70°	1231.0	19.7
70°-80°	622.1	10.0
80°-90°	100.5	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°	6238.0	100.0
0°-180°	6238.0	100.0

Coefficient of Utilization



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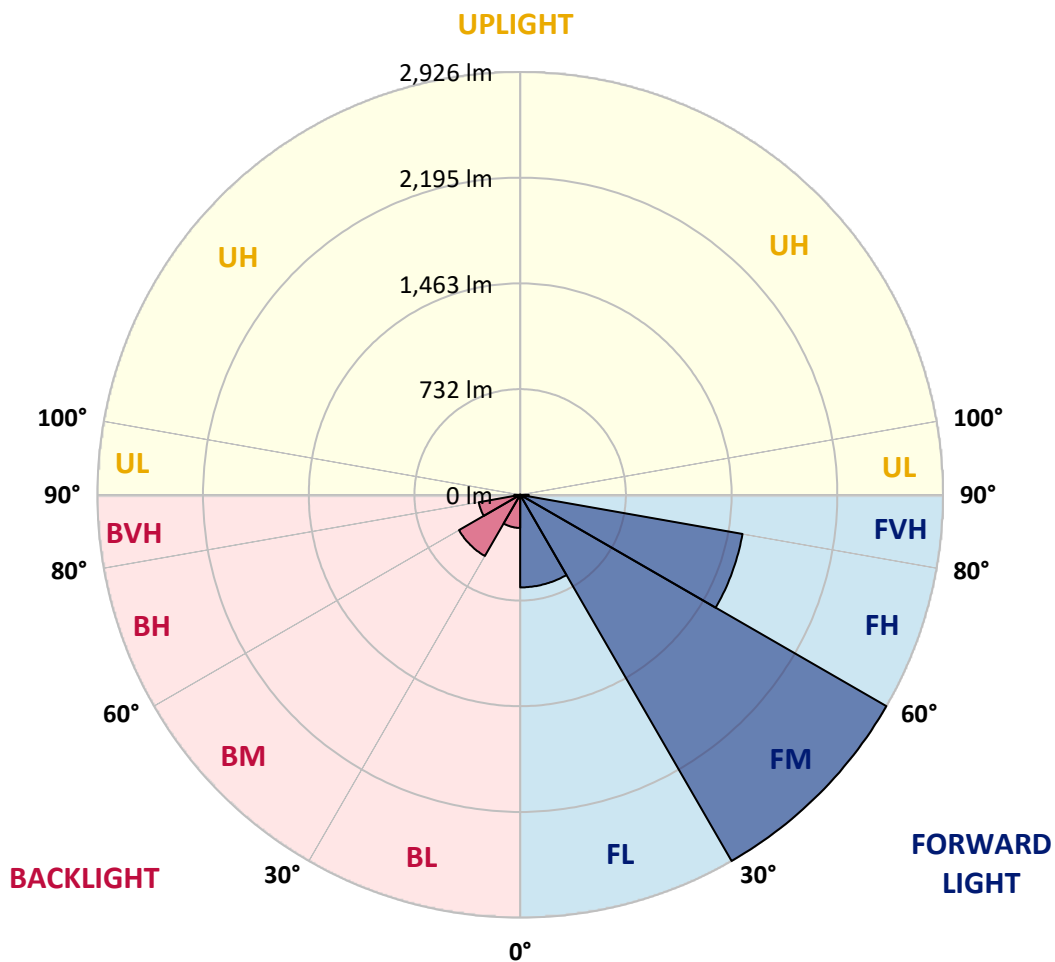
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.6	10.3			
FM (30°-60°)	2926.1	46.9			
FH (60°-80°)	1562.3	25.0			G1/1800
FVH (80°-90°)	59.3	1.0			G1/100
BL (0°-30°)	228.9	3.7	B1/500		
BM (30°-60°)	488.8	7.8	B1/1000		
BH (60°-80°)	290.8	4.7	B1/500		G1/500
BVH (80°-90°)	41.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7
2.5°	756.2	744.8	743.7	727.0	723.2	691.2	667.7	643.2	615.2	609.7	587.7
5°	971.4	970.3	955.7	928.4	907.0	852.4	798.4	741.2	678.5	668.4	618.8
7.5°	1165.0	1163.3	1152.0	1122.6	1091.7	1024.6	947.5	859.8	758.1	743.1	660.9
10°	1311.9	1311.3	1307.5	1285.9	1259.6	1195.2	1110.1	990.5	850.7	830.2	713.7
12.5°	1425.4	1426.7	1429.3	1421.6	1409.1	1354.3	1267.0	1129.0	949.4	929.0	772.3
15°	1502.3	1506.1	1519.3	1530.1	1536.6	1503.0	1418.5	1270.6	1059.9	1035.6	837.4
17.5°	1541.1	1545.3	1568.0	1600.6	1630.7	1627.3	1560.1	1405.8	1166.0	1142.5	907.2
20°	1574.5	1577.7	1603.1	1642.3	1695.5	1719.0	1681.3	1535.8	1282.3	1254.3	981.4
22.5°	1671.5	1675.6	1683.2	1705.4	1752.4	1795.6	1777.4	1658.8	1388.8	1362.8	1051.7
25°	1858.7	1863.6	1847.1	1828.2	1837.1	1867.2	1870.6	1771.1	1496.8	1467.4	1127.3
27.5°	2084.3	2091.3	2063.1	2014.6	1972.2	1960.6	1956.6	1863.0	1599.9	1565.9	1202.0
30°	2305.2	2317.2	2280.6	2217.7	2140.0	2085.3	2044.9	1953.0	1701.6	1669.0	1272.5
32.5°	2520.9	2516.1	2462.9	2401.5	2310.4	2242.0	2144.2	2049.5	1816.0	1778.5	1342.6
35°	2668.8	2670.5	2621.1	2548.3	2461.4	2408.9	2277.2	2153.7	1932.6	1898.1	1422.3
37.5°	2794.6	2786.7	2730.8	2662.8	2588.1	2565.6	2432.9	2268.5	2059.1	2021.4	1507.0
40°	2836.5	2827.4	2790.7	2741.8	2681.9	2680.0	2604.6	2398.5	2202.0	2164.7	1602.5
42.5°	2811.1	2799.4	2784.4	2771.1	2752.6	2761.1	2766.0	2551.0	2359.2	2317.4	1713.0
45°	2717.3	2699.7	2710.3	2739.3	2779.3	2827.2	2911.7	2719.8	2535.1	2500.2	1842.9
47.5°	2573.0	2557.2	2590.2	2652.2	2761.1	2882.2	3049.5	2906.2	2745.2	2710.5	2027.7
50°	2370.2	2374.8	2422.1	2534.9	2699.5	2907.6	3219.4	3152.9	3050.6	3018.2	2280.0
52.5°	2037.3	2038.1	2171.1	2356.4	2590.2	2894.5	3313.6	3468.2	3467.6	3428.4	2520.1
55°	1728.1	1746.9	1852.2	2098.5	2413.2	2842.0	3379.5	3621.5	3741.4	3695.4	2743.9
57.5°	1426.1	1437.1	1536.8	1784.2	2160.5	2702.0	3447.0	3805.6	4056.9	4027.9	3022.2
60°	1082.6	1099.5	1202.7	1431.2	1837.3	2453.6	3453.4	3997.6	4434.1	4404.9	3332.9
62.5°	702.7	731.9	828.5	1042.6	1446.4	2096.3	3306.0	4123.2	4791.6	4781.2	3608.6
65°	403.9	425.9	493.0	658.2	997.9	1647.8	2955.5	4074.9	5011.6	5005.7	3711.8
66°	329.9	343.7	395.2	514.4	823.4	1447.0	2751.8	3973.1	5033.4	5033.6	3699.9
67.5°	263.9	270.0	293.1	368.3	607.6	1147.0	2387.7	3748.4	5006.3	5013.7	3623.4
70°	218.3	221.5	228.7	246.9	331.6	691.7	1694.8	3164.5	4734.2	4739.9	3325.1
72.5°	195.9	197.8	200.5	203.1	234.0	386.5	1035.1	2531.5	4150.8	4158.2	2870.4
75°	177.5	178.5	178.1	178.3	196.3	246.3	534.9	1890.1	3356.2	3341.4	2198.8
77.5°	155.9	156.9	154.8	155.2	173.7	189.3	266.2	1323.2	2264.9	2160.3	1238.9
80°	131.7	132.6	131.7	133.2	151.2	142.9	154.8	744.4	1001.5	947.3	440.5
82.5°	99.5	103.1	105.7	111.6	124.5	101.7	103.6	289.9	305.0	290.3	135.1
85°	43.6	53.2	79.6	85.3	93.6	61.0	68.0	118.2	124.1	120.3	49.1
87.5°	11.4	12.5	39.4	49.6	51.9	27.5	35.4	53.8	56.8	53.8	16.3
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°	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7
2.5°	576.0	565.6	547.0	530.5	518.0	509.5	501.1	496.8	494.3	491.7	492.2
5°	594.4	573.5	541.5	518.8	506.1	498.1	493.9	492.2	491.1	488.6	488.6
7.5°	622.2	592.5	548.5	525.2	515.2	509.1	506.6	505.7	504.4	501.5	501.9
10°	657.1	615.6	563.1	540.4	531.3	524.6	521.0	519.7	517.4	514.0	514.4
12.5°	698.2	644.2	582.4	558.7	547.6	538.5	532.6	529.0	525.0	520.5	520.8
15°	743.1	675.3	603.1	575.0	559.9	547.2	537.7	531.6	525.2	519.7	519.5
17.5°	788.6	705.4	619.0	583.9	563.5	546.8	533.9	524.4	516.5	509.7	509.1
20°	837.8	732.5	627.9	583.0	556.8	536.8	519.7	507.8	499.1	492.4	491.3
22.5°	887.8	757.9	629.4	574.3	541.7	517.4	499.4	486.2	477.3	470.3	467.8
25°	933.5	777.6	623.2	557.6	520.8	494.5	476.9	463.6	456.4	448.1	445.6
27.5°	975.2	791.4	611.0	536.2	497.2	471.4	454.9	443.5	435.6	429.3	427.1
30°	1012.7	798.8	590.8	510.8	473.1	449.6	435.6	427.8	421.0	413.0	411.5
32.5°	1048.3	798.8	565.0	483.1	449.2	430.3	422.1	417.2	409.6	401.7	399.6
35°	1083.9	793.9	534.5	454.0	427.1	416.6	416.1	410.4	398.8	388.2	385.4
37.5°	1121.3	784.0	500.2	426.9	409.1	410.4	414.0	401.3	384.8	369.8	365.7
40°	1163.7	770.2	464.6	403.4	394.1	407.7	408.3	388.2	356.0	342.2	338.6
42.5°	1213.5	756.5	431.6	382.7	382.3	399.4	397.5	359.8	340.5	333.5	331.6
45°	1278.9	748.6	400.3	363.0	372.9	386.1	379.1	344.1	336.1	332.1	330.4
47.5°	1382.0	752.6	371.5	347.3	363.6	372.7	344.8	337.8	332.1	327.2	325.5
50°	1511.2	750.3	348.2	336.5	353.0	358.7	329.3	329.5	326.6	321.0	318.5
52.5°	1608.4	732.1	333.1	330.4	343.7	334.0	319.6	321.5	320.0	311.9	309.2
55°	1702.2	716.4	325.5	328.0	336.9	303.0	308.1	312.8	311.3	303.5	302.2
57.5°	1818.9	713.5	320.8	328.7	331.2	287.6	297.1	303.3	302.2	298.8	298.2
60°	1961.9	714.3	316.6	329.7	324.9	276.2	286.7	294.6	295.2	294.6	294.2
62.5°	2040.4	691.2	306.0	326.8	313.6	266.2	275.9	287.4	287.6	288.9	288.6
65°	1973.7	622.2	286.3	316.4	294.8	257.9	266.6	279.1	275.9	281.7	281.7
66°	1908.9	582.4	276.6	309.6	286.7	254.8	263.7	274.9	270.9	278.7	278.7
67.5°	1776.6	515.2	259.0	295.2	275.3	250.3	260.3	267.9	262.4	274.0	273.2
70°	1534.7	398.6	223.6	262.6	256.5	243.8	255.6	253.9	245.9	263.7	260.3
72.5°	1293.9	302.8	179.6	219.8	227.9	235.5	249.0	236.1	226.0	238.5	231.0
75°	1004.0	227.7	141.9	170.9	192.5	222.6	241.2	215.6	201.0	199.7	195.7
77.5°	542.8	156.3	112.5	130.5	152.9	206.5	235.9	193.6	171.5	166.5	163.3
80°	214.9	101.7	81.7	98.9	106.9	183.2	223.2	167.9	141.5	136.4	131.5
82.5°	88.7	60.1	52.7	66.3	69.7	156.7	200.3	137.7	109.3	151.2	160.5
85°	38.1	33.0	31.3	34.3	39.4	109.9	159.5	105.0	118.0	105.3	83.7
87.5°	11.4	14.0	13.3	13.1	14.4	26.3	84.9	58.4	86.6	32.8	24.6
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)