

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: P348567

Luminaire Tested: **ARCH-N-PA1-60-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348567
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-PA1-60-827-U-T2R
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: 5665 lumens
Efficiency: N/A
Efficacy: 91.4 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

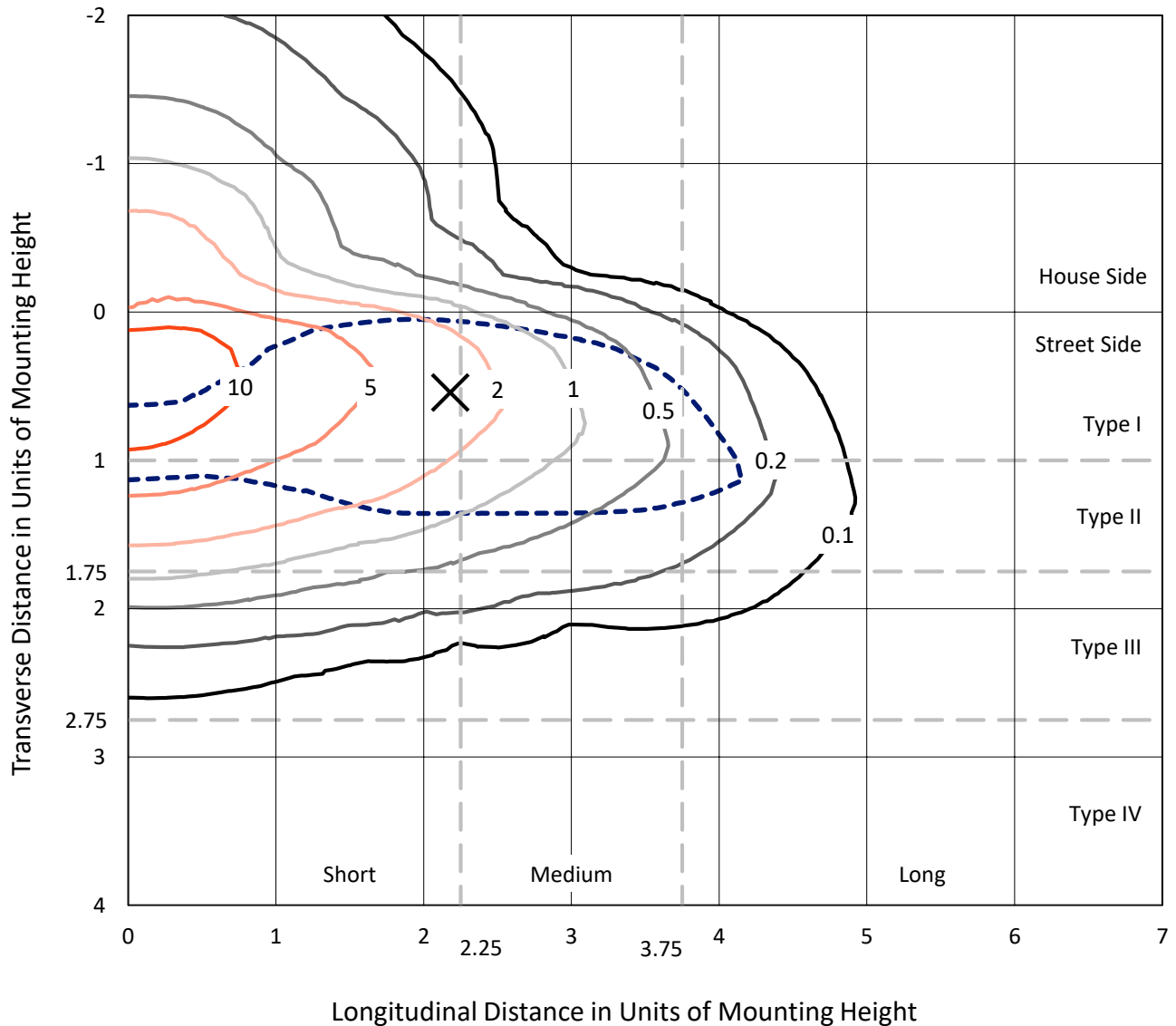
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

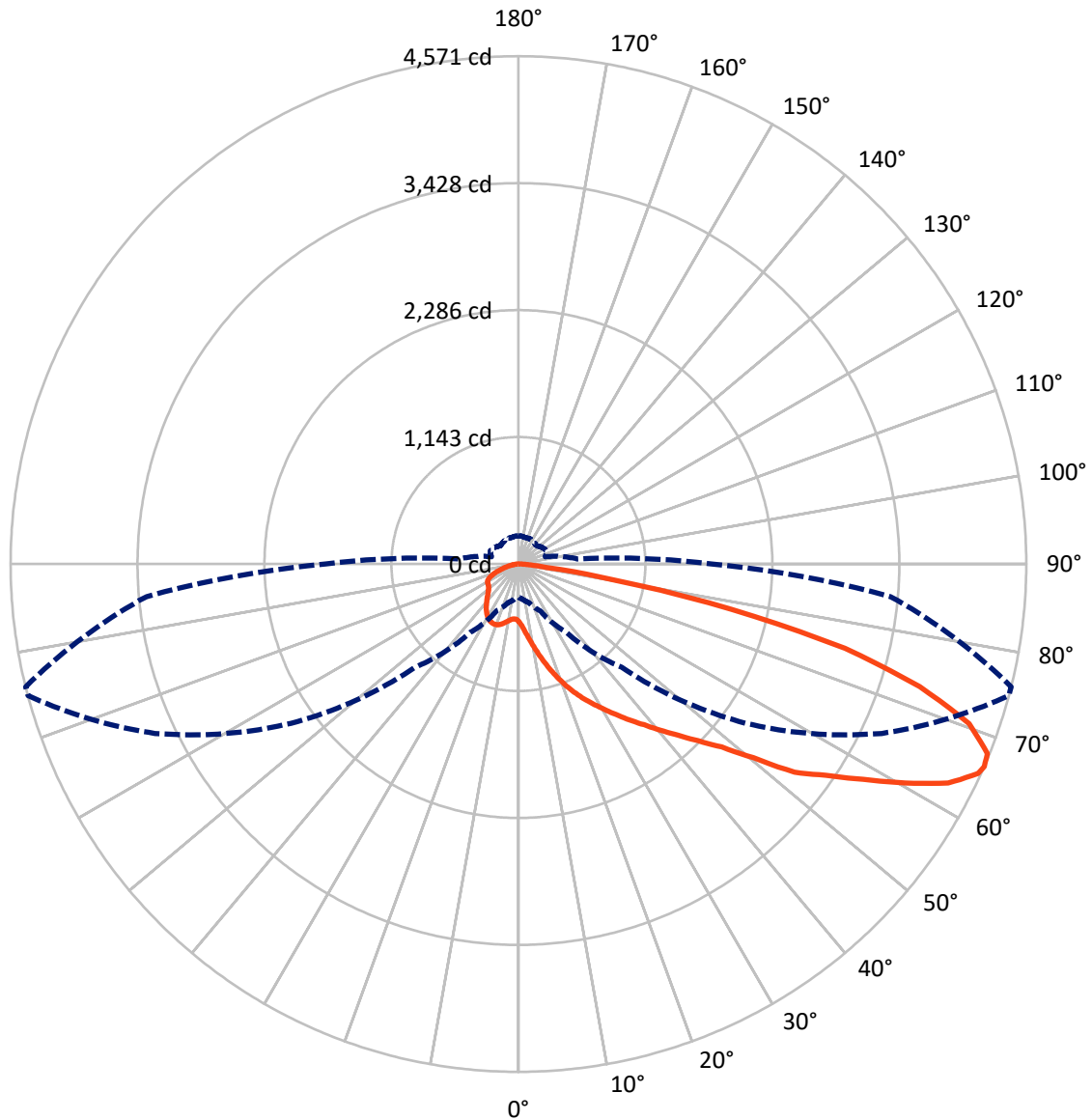
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 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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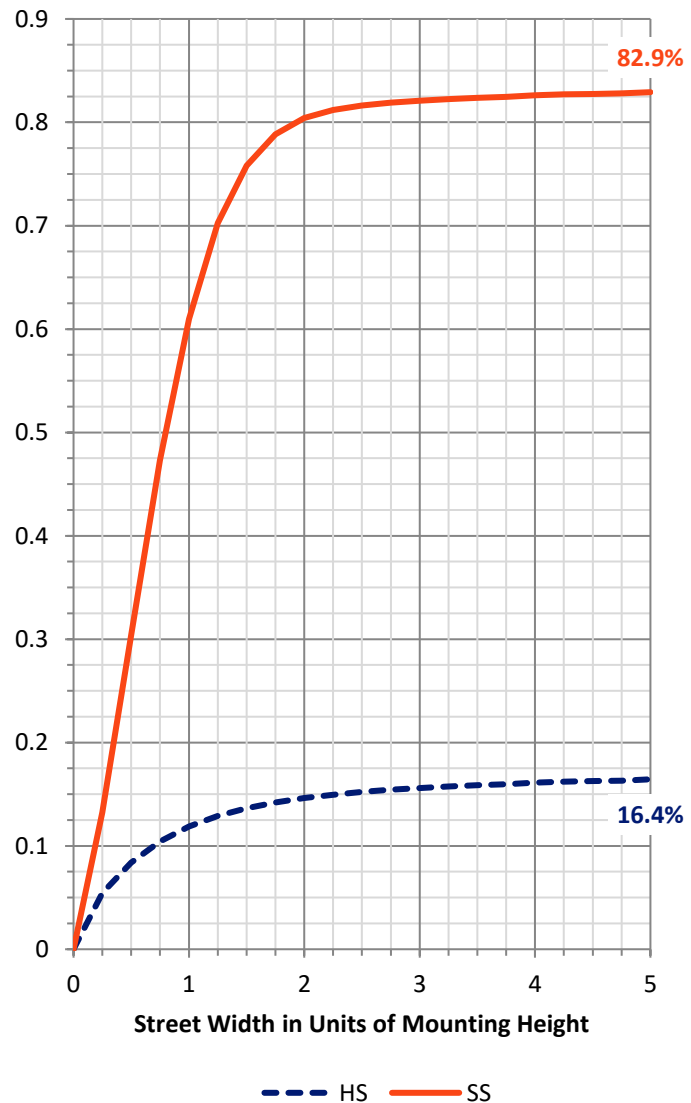
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	953.2	0.0	953.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	4711.8	0.0	4711.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	5665.0	0.0	5665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	1.1
10°-20°	247.0	4.4
20°-30°	480.1	8.5
30°-40°	783.6	13.8
40°-50°	1070.6	18.9
50°-60°	1247.0	22.0
60°-70°	1118.0	19.7
70°-80°	565.0	10.0
80°-90°	91.2	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°	5665.0	100.0
0°-180°	5665.0	100.0

Coefficient of Utilization



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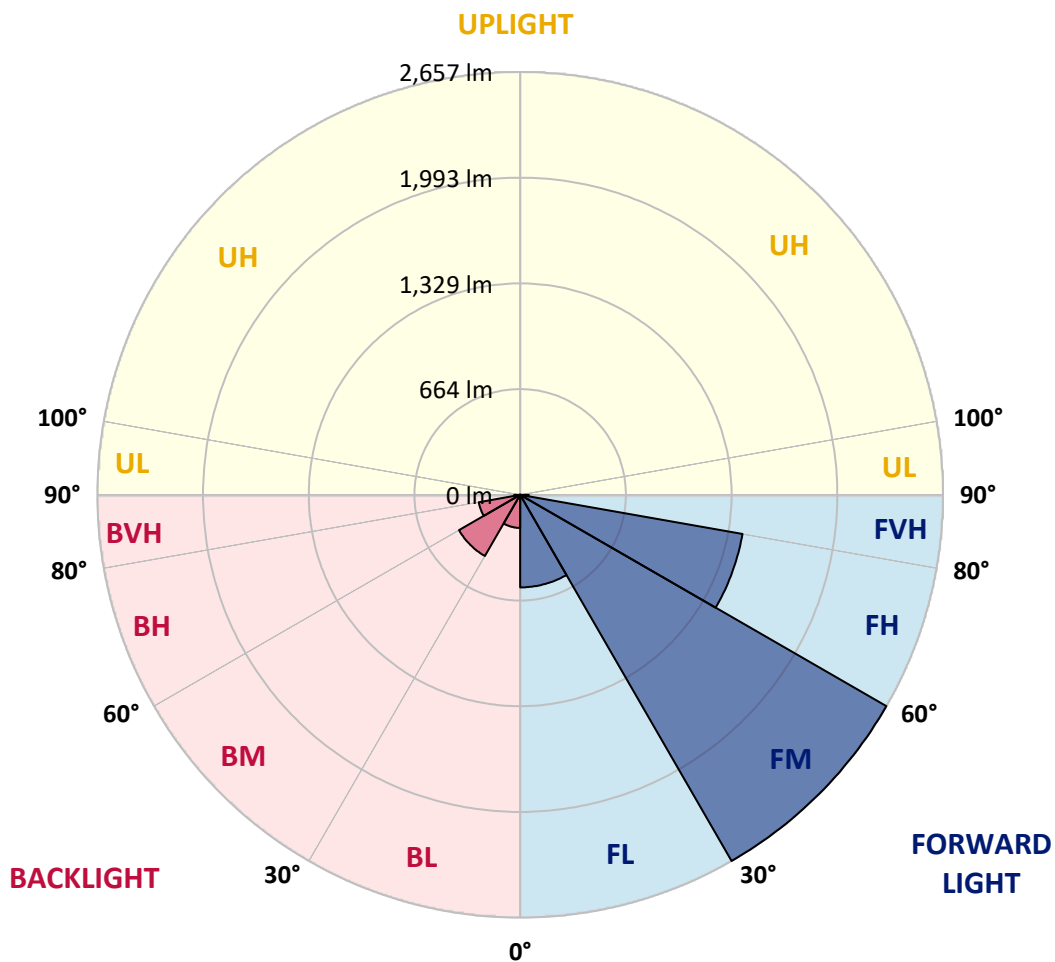
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.8	10.3			
FM (30°-60°)	2657.3	46.9			
FH (60°-80°)	1418.8	25.0			G1/1800
FVH (80°-90°)	53.9	1.0			G1/100
BL (0°-30°)	207.9	3.7	B1/500		
BM (30°-60°)	443.9	7.8	B1/1000		
BH (60°-80°)	264.1	4.7	B1/500		G1/500
BVH (80°-90°)	37.4	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°	517.3	517.3	517.3	517.3	517.3	517.3	517.3	517.3	517.3	517.3	517.3
2.5°	686.8	676.4	675.4	660.2	656.8	627.7	606.4	584.1	558.7	553.7	533.7
5°	882.2	881.2	867.9	843.1	823.7	774.1	725.0	673.1	616.2	607.0	562.0
7.5°	1058.0	1056.4	1046.2	1019.5	991.4	930.4	860.4	780.8	688.5	674.9	600.2
10°	1191.4	1190.8	1187.4	1167.8	1143.9	1085.5	1008.1	899.5	772.6	753.9	648.1
12.5°	1294.5	1295.7	1298.0	1291.0	1279.7	1229.9	1150.7	1025.3	862.2	843.7	701.4
15°	1364.3	1367.8	1379.7	1389.5	1395.5	1364.9	1288.2	1153.9	962.6	940.4	760.4
17.5°	1399.5	1403.4	1423.9	1453.6	1480.9	1477.8	1416.8	1276.6	1058.9	1037.6	823.9
20°	1429.9	1432.8	1455.9	1491.4	1539.7	1561.1	1526.8	1394.7	1164.5	1139.1	891.2
22.5°	1518.0	1521.6	1528.6	1548.8	1591.5	1630.7	1614.1	1506.4	1261.2	1237.6	955.1
25°	1688.0	1692.4	1677.4	1660.3	1668.4	1695.7	1698.8	1608.4	1359.3	1332.6	1023.7
27.5°	1892.8	1899.2	1873.6	1829.5	1791.1	1780.5	1776.8	1691.8	1453.0	1422.0	1091.6
30°	2093.4	2104.4	2071.1	2014.0	1943.4	1893.8	1857.0	1773.6	1545.3	1515.7	1155.7
32.5°	2289.4	2285.0	2236.7	2180.9	2098.2	2036.1	1947.2	1861.3	1649.1	1615.1	1219.3
35°	2423.6	2425.2	2380.4	2314.2	2235.3	2187.6	2068.0	1955.9	1755.1	1723.8	1291.6
37.5°	2537.9	2530.7	2480.0	2418.2	2350.3	2330.0	2209.4	2060.1	1869.9	1835.7	1368.6
40°	2575.9	2567.7	2534.4	2490.0	2435.5	2433.8	2365.4	2178.2	1999.7	1965.9	1455.3
42.5°	2552.9	2542.3	2528.6	2516.5	2499.8	2507.5	2511.9	2316.7	2142.5	2104.6	1555.7
45°	2467.7	2451.7	2461.3	2487.7	2524.0	2567.5	2644.2	2470.0	2302.3	2270.5	1673.6
47.5°	2336.7	2322.3	2352.3	2408.6	2507.5	2617.5	2769.4	2639.2	2493.1	2461.5	1841.5
50°	2152.5	2156.7	2199.6	2302.1	2451.5	2640.6	2923.7	2863.3	2770.4	2741.0	2070.5
52.5°	1850.1	1850.9	1971.7	2140.0	2352.3	2628.6	3009.2	3149.6	3149.1	3113.5	2288.6
55°	1569.3	1586.5	1682.0	1905.7	2191.5	2580.9	3069.1	3288.9	3397.7	3356.0	2491.9
57.5°	1295.1	1305.1	1395.7	1620.3	1962.1	2453.8	3130.4	3456.0	3684.3	3657.9	2744.6
60°	983.1	998.5	1092.2	1299.7	1668.6	2228.2	3136.2	3630.4	4026.8	4000.3	3026.7
62.5°	638.1	664.7	752.4	946.8	1313.5	1903.8	3002.3	3744.5	4351.4	4342.0	3277.1
65°	366.8	386.8	447.7	597.7	906.2	1496.4	2684.0	3700.6	4551.3	4545.9	3370.8
66°	299.6	312.1	358.9	467.1	747.7	1314.1	2499.0	3608.1	4571.1	4571.3	3360.0
67.5°	239.6	245.2	266.2	334.4	551.8	1041.6	2168.4	3404.1	4546.5	4553.2	3290.6
70°	198.3	201.2	207.7	224.2	301.2	628.1	1539.1	2873.8	4299.3	4304.5	3019.6
72.5°	177.9	179.6	182.1	184.4	212.5	351.0	940.1	2299.0	3769.5	3776.2	2606.7
75°	161.2	162.1	161.7	161.9	178.3	223.7	485.8	1716.5	3047.9	3034.4	1996.9
77.5°	141.5	142.5	140.6	141.0	157.7	171.9	241.7	1201.6	2056.9	1961.9	1125.1
80°	119.6	120.4	119.6	121.0	137.3	129.8	140.6	676.0	909.5	860.2	400.0
82.5°	90.4	93.7	96.0	101.4	113.1	92.3	94.0	263.3	276.9	263.7	122.7
85°	39.6	48.3	72.3	77.5	85.0	55.4	61.7	107.3	112.7	109.2	44.6
87.5°	10.4	11.3	35.8	45.0	47.1	25.0	32.1	48.8	51.5	48.8	14.8
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°	517.3	517.3	517.3	517.3	517.3	517.3	517.3	517.3	517.3	517.3	517.3
2.5°	523.1	513.7	496.8	481.8	470.4	462.7	455.0	451.2	448.9	446.6	447.0
5°	539.8	520.8	491.8	471.2	459.6	452.3	448.5	447.0	446.0	443.7	443.7
7.5°	565.0	538.1	498.1	477.0	467.9	462.3	460.0	459.3	458.1	455.4	455.8
10°	596.8	559.1	511.4	490.8	482.5	476.4	473.1	472.0	469.8	466.8	467.1
12.5°	634.1	585.0	528.9	507.3	497.3	489.1	483.7	480.4	476.8	472.7	472.9
15°	674.9	613.3	547.7	522.2	508.5	497.0	488.3	482.7	477.0	472.0	471.8
17.5°	716.2	640.6	562.2	530.2	511.8	496.6	484.8	476.2	469.1	462.9	462.3
20°	760.8	665.2	570.2	529.5	505.6	487.5	472.0	461.2	453.3	447.1	446.2
22.5°	806.2	688.3	571.6	521.6	492.0	469.8	453.5	441.6	433.5	427.1	424.8
25°	847.7	706.2	566.0	506.4	472.9	449.1	433.1	421.0	414.5	407.0	404.6
27.5°	885.6	718.7	554.8	487.0	451.6	428.1	413.1	402.7	395.6	389.8	387.9
30°	919.7	725.4	536.6	463.9	429.6	408.3	395.6	388.5	382.3	375.0	373.7
32.5°	952.0	725.4	513.1	438.7	407.9	390.8	383.3	378.9	371.9	364.8	362.9
35°	984.3	721.0	485.4	412.3	387.9	378.3	377.9	372.7	362.1	352.5	350.0
37.5°	1018.3	712.0	454.3	387.7	371.6	372.7	376.0	364.4	349.4	335.8	332.1
40°	1056.8	699.5	422.0	366.4	357.9	370.2	370.8	352.5	323.3	310.8	307.5
42.5°	1102.0	687.0	391.9	347.5	347.1	362.7	361.0	326.8	309.3	302.9	301.2
45°	1161.4	679.9	363.5	329.6	338.7	350.6	344.3	312.5	305.2	301.6	300.0
47.5°	1255.1	683.5	337.3	315.4	330.2	338.5	313.1	306.8	301.6	297.1	295.6
50°	1372.4	681.4	316.2	305.6	320.6	325.8	299.1	299.3	296.6	291.6	289.3
52.5°	1460.7	664.9	302.5	300.0	312.1	303.3	290.2	291.9	290.6	283.3	280.8
55°	1545.9	650.6	295.6	297.9	306.0	275.2	279.8	284.1	282.7	275.6	274.4
57.5°	1651.8	647.9	291.4	298.5	300.8	261.2	269.8	275.4	274.4	271.4	270.8
60°	1781.7	648.7	287.5	299.4	295.0	250.8	260.4	267.5	268.1	267.5	267.1
62.5°	1853.0	627.7	277.9	296.8	284.8	241.7	250.6	261.0	261.2	262.3	262.1
65°	1792.4	565.0	260.0	287.3	267.7	234.2	242.1	253.5	250.6	255.8	255.8
66°	1733.6	528.9	251.2	281.2	260.4	231.4	239.4	249.6	246.0	253.1	253.1
67.5°	1613.4	467.9	235.2	268.1	250.0	227.3	236.4	243.3	238.3	248.9	248.1
70°	1393.7	361.9	203.1	238.5	232.9	221.4	232.1	230.6	223.3	239.4	236.4
72.5°	1175.1	275.0	163.1	199.6	206.9	213.9	226.2	214.4	205.2	216.6	209.8
75°	911.8	206.7	128.9	155.2	174.8	202.1	219.1	195.8	182.5	181.4	177.7
77.5°	492.9	141.9	102.1	118.5	138.9	187.5	214.2	175.8	155.8	151.2	148.3
80°	195.2	92.3	74.2	89.8	97.1	166.4	202.7	152.5	128.5	123.9	119.4
82.5°	80.6	54.6	47.9	60.2	63.3	142.3	181.9	125.0	99.2	137.3	145.8
85°	34.6	30.0	28.5	31.2	35.8	99.8	144.8	95.4	107.1	95.6	76.0
87.5°	10.4	12.7	12.1	11.9	13.1	23.8	77.1	53.1	78.7	29.8	22.3
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)