

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: P348903

Luminaire Tested: **ARCH-N-PA1-60-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
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-T4W-HSS
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: 3978 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

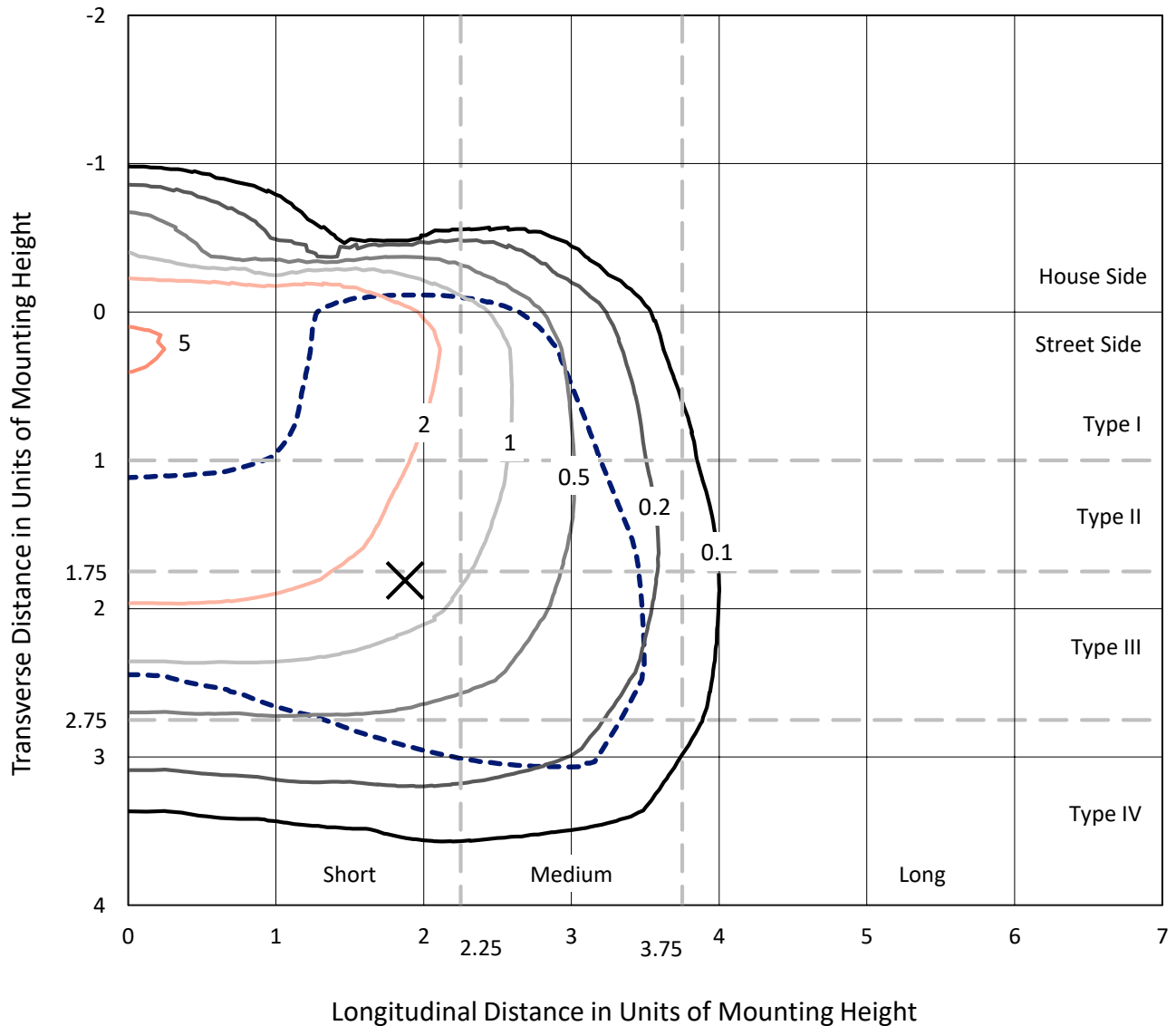
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

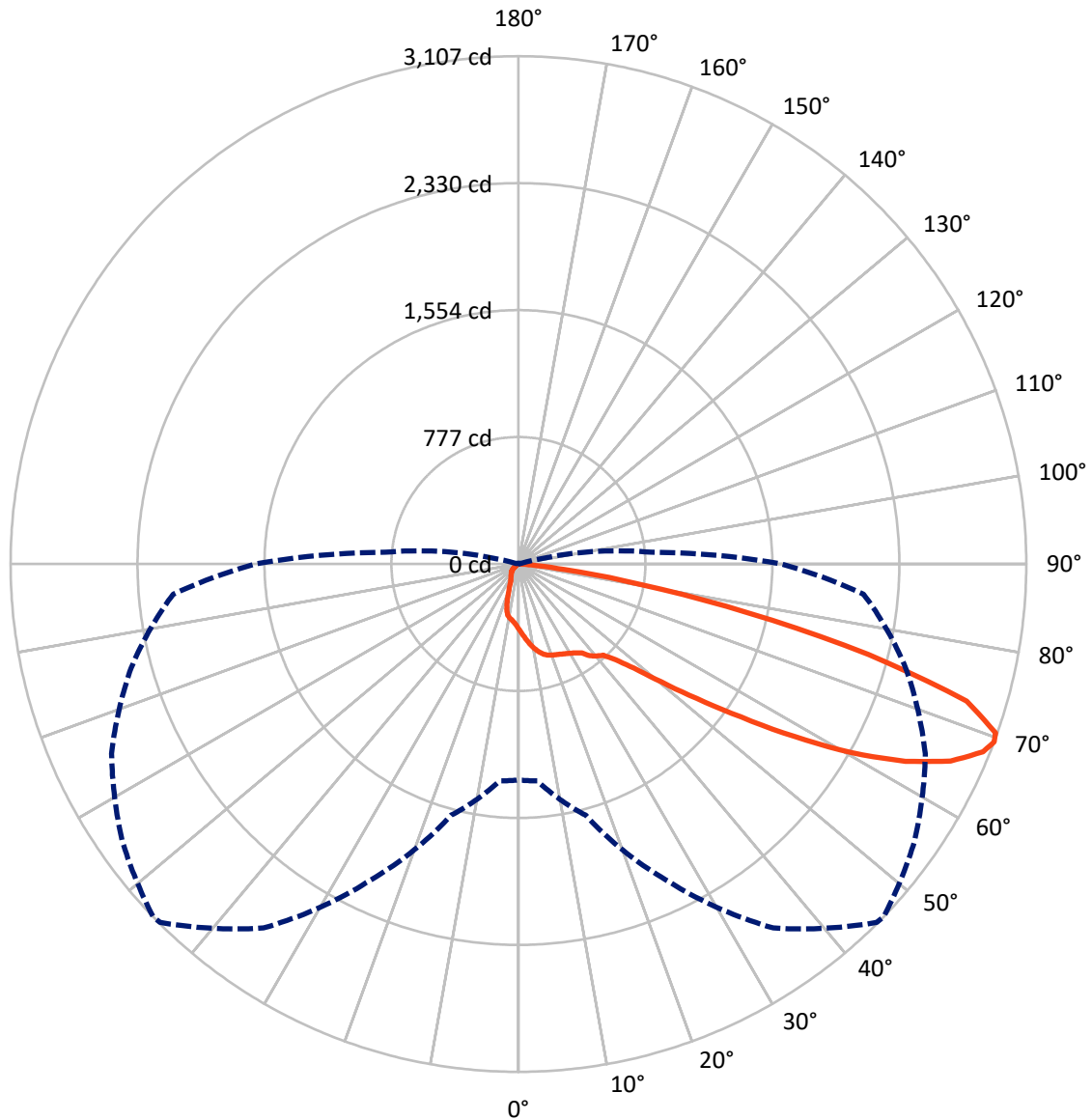


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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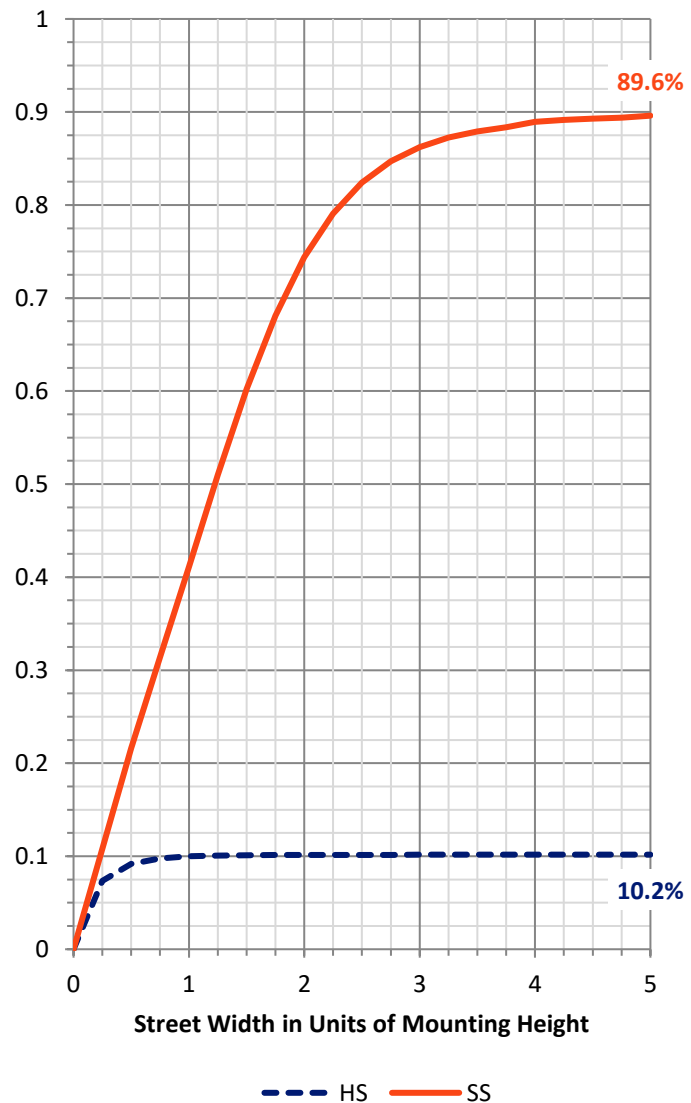
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	408.3	0.0	408.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3569.7	0.0	3569.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	3978.0	0.0	3978.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	1.0
10°-20°	120.4	3.0
20°-30°	189.3	4.8
30°-40°	271.4	6.8
40°-50°	469.1	11.8
50°-60°	926.8	23.3
60°-70°	1295.3	32.6
70°-80°	625.8	15.7
80°-90°	40.2	1.0
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°	3978.0	100.0
0°-180°	3978.0	100.0



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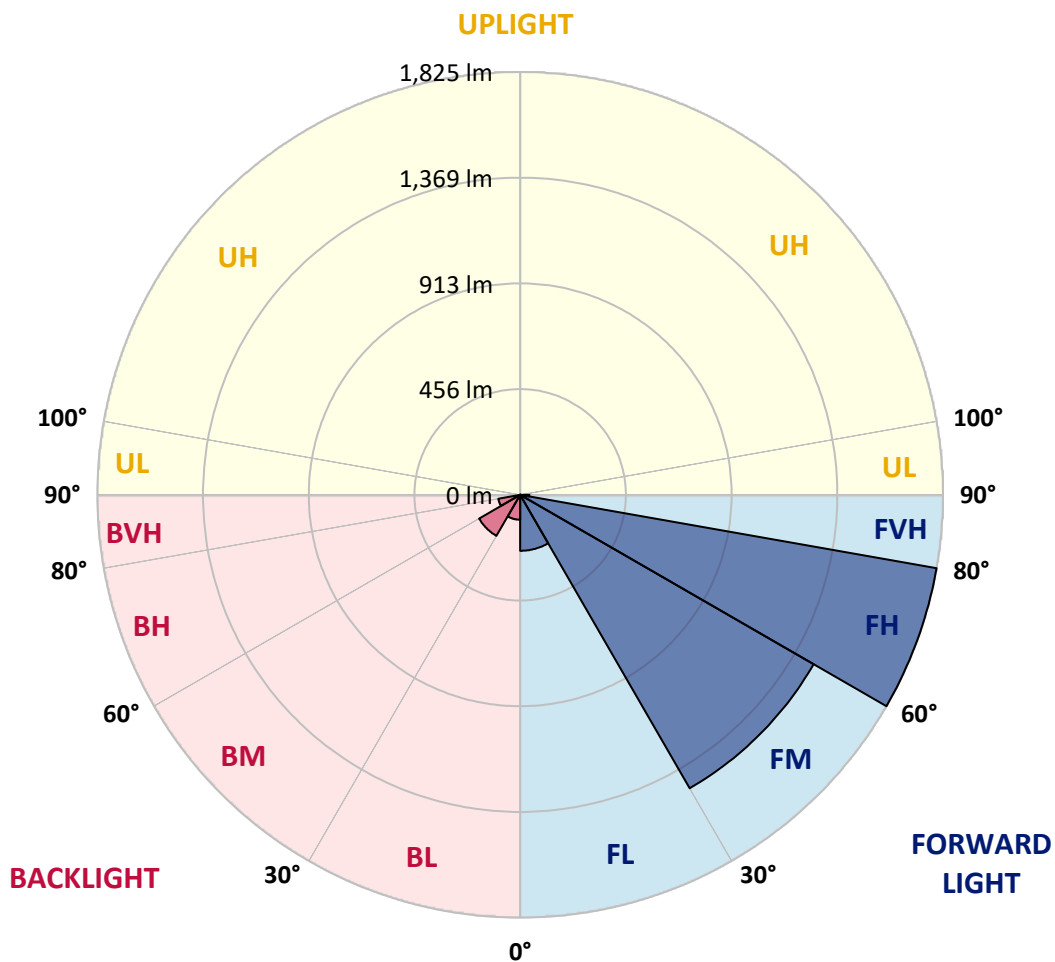
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	241.7	6.1			
FM	(30°-60°)	1462.8	36.8			
FH	(60°-80°)	1825.4	45.9			G2/5000
FVH	(80°-90°)	39.9	1.0			G1/100
BL	(0°-30°)	107.6	2.7	B0/110		
BM	(30°-60°)	204.6	5.1	B0/220		
BH	(60°-80°)	95.7	2.4	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6
2.5°	442.8	442.2	439.6	438.5	432.2	428.4	426.9	422.3	415.6	408.8	401.4
5°	493.1	493.0	488.1	483.4	471.5	460.3	458.3	447.4	432.3	418.2	404.0
7.5°	544.6	542.2	537.3	528.4	511.0	493.1	491.5	476.2	454.7	434.2	413.9
10°	588.3	586.8	580.4	566.8	546.5	526.2	524.1	505.3	481.0	455.8	429.9
12.5°	622.2	621.1	612.7	595.7	574.1	553.0	550.2	533.4	507.5	479.3	448.8
15°	642.9	642.4	632.1	614.0	592.7	574.5	572.0	557.3	533.2	503.8	469.3
17.5°	647.8	648.0	637.3	619.0	601.5	588.5	586.6	575.4	555.3	526.0	489.8
20°	636.9	639.2	629.7	613.8	603.0	596.1	594.6	587.9	570.9	543.3	506.2
22.5°	621.7	622.8	616.2	605.6	601.1	602.4	601.7	598.0	583.6	558.2	522.4
25°	612.3	612.3	608.4	599.5	602.4	610.5	610.6	609.9	598.5	576.5	542.2
27.5°	612.0	610.8	606.4	599.6	607.8	620.2	620.9	625.9	618.9	598.7	566.8
30°	626.9	625.6	616.1	607.3	617.7	631.0	632.8	643.8	640.3	622.8	594.2
32.5°	661.8	657.1	636.0	621.7	629.5	645.3	647.8	665.3	670.9	652.4	620.7
35°	709.5	694.8	664.4	648.9	649.6	666.2	668.5	694.2	710.8	679.7	641.2
37.5°	775.3	768.1	718.6	677.2	680.6	705.8	712.3	740.3	735.6	694.6	664.5
40°	919.7	908.3	855.7	756.7	710.2	737.8	739.9	754.8	755.2	728.3	713.0
42.5°	1116.3	1111.6	1056.2	900.9	768.6	759.3	763.0	788.2	816.4	799.6	798.8
45°	1333.9	1331.5	1272.8	1092.2	886.7	829.6	834.3	868.0	921.9	925.7	949.4
47.5°	1509.1	1508.0	1474.2	1305.8	1067.4	948.8	950.3	986.1	1080.8	1127.7	1165.5
50°	1668.7	1674.2	1647.5	1536.9	1313.6	1135.5	1132.0	1155.8	1308.0	1384.7	1431.7
52.5°	1890.7	1898.3	1823.5	1752.5	1571.9	1367.1	1364.4	1389.3	1581.1	1638.5	1646.9
55°	2086.7	2073.7	2014.5	1994.0	1887.0	1653.3	1652.5	1674.5	1845.2	1869.6	1885.1
57.5°	2173.3	2168.2	2196.8	2243.8	2216.9	1991.4	1989.7	1972.9	2081.5	2084.1	2131.7
60°	2227.9	2234.1	2321.5	2466.5	2533.4	2355.3	2344.5	2242.1	2307.2	2301.4	2352.3
62.5°	2186.9	2199.0	2356.4	2598.0	2770.3	2672.9	2657.6	2488.7	2500.0	2480.1	2527.5
65°	1969.0	1987.9	2245.8	2573.1	2887.8	2921.2	2905.7	2706.3	2653.2	2620.3	2594.0
67.5°	1598.8	1610.0	1879.3	2357.4	2834.8	3069.3	3066.1	2897.1	2768.8	2596.6	2392.6
69°	1321.3	1332.3	1591.5	2130.2	2718.3	3101.0	3107.1	2958.3	2746.8	2452.7	2119.9
70°	1119.1	1130.8	1372.4	1935.5	2583.0	3086.2	3097.3	2952.5	2683.8	2285.9	1880.6
72.5°	587.0	597.0	844.9	1333.4	2105.7	2833.9	2867.3	2703.0	2274.9	1660.2	1112.0
75°	184.5	190.2	329.9	697.0	1441.8	2203.5	2211.1	2120.3	1615.4	913.2	463.1
77.5°	70.3	68.6	109.9	256.8	728.9	1387.5	1434.3	1325.0	847.7	322.9	106.9
80°	37.9	38.0	57.1	106.3	311.9	713.0	752.6	642.2	301.2	100.7	24.6
82.5°	16.4	17.2	32.1	56.3	143.2	263.0	282.8	235.4	115.1	67.7	9.1
85°	3.5	3.9	15.5	30.6	58.4	73.9	77.4	76.3	73.3	52.6	3.5
87.5°	0.0	0.0	6.9	11.0	14.7	16.8	14.7	19.2	40.5	35.4	1.9
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°	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6
2.5°	399.0	395.6	389.8	383.5	379.0	374.3	370.6	368.9	367.1	365.8	367.4
5°	398.2	391.7	380.5	369.7	361.8	355.5	350.3	348.2	346.2	344.7	344.5
7.5°	404.7	395.6	378.4	362.6	350.5	341.9	334.8	331.8	329.4	328.3	327.3
10°	417.2	405.5	382.5	361.8	346.2	331.6	316.3	304.6	296.9	293.4	292.1
12.5°	433.5	418.7	390.4	365.8	343.0	315.0	282.6	254.6	236.5	230.5	227.0
15°	452.5	434.2	400.6	370.8	331.4	280.3	225.3	188.8	172.0	168.6	164.9
17.5°	470.8	450.6	412.9	371.7	306.1	224.0	165.1	140.3	133.7	136.0	136.5
20°	486.8	466.8	425.1	363.5	260.0	168.0	127.8	121.6	124.0	128.3	129.1
22.5°	503.0	482.5	436.3	341.9	201.1	127.6	115.1	116.6	119.0	123.3	124.0
25°	522.8	501.5	446.7	302.2	150.9	108.6	109.3	111.5	114.0	117.9	118.2
27.5°	545.6	525.6	453.6	250.5	111.9	99.8	102.2	105.6	108.0	111.7	112.5
30°	575.8	557.3	455.8	197.0	93.8	92.0	93.1	97.2	100.7	104.1	104.6
32.5°	604.1	588.6	448.4	148.7	86.9	84.7	84.7	87.1	91.2	94.4	95.1
35°	630.2	620.2	424.5	108.7	81.7	78.0	76.1	76.1	78.7	81.3	82.1
37.5°	664.7	664.4	385.9	86.7	76.7	72.4	68.5	65.5	64.5	65.1	65.5
40°	723.9	724.4	335.5	77.8	72.4	66.6	60.6	55.2	50.2	48.5	48.3
42.5°	816.2	807.8	282.8	73.5	68.6	60.6	51.7	44.4	36.6	34.1	33.9
45°	962.8	913.0	226.8	69.6	64.7	53.9	42.7	32.8	26.5	24.6	24.6
47.5°	1176.3	1051.2	175.7	65.3	59.5	46.3	32.3	23.7	19.4	18.5	18.7
50°	1397.2	1186.6	134.7	59.9	53.2	38.2	23.9	17.2	14.7	14.7	14.9
52.5°	1593.0	1285.8	105.0	54.1	45.3	30.0	18.1	13.4	12.3	12.1	12.3
55°	1776.4	1349.8	80.4	47.4	36.0	22.4	13.8	11.0	10.3	9.9	9.7
57.5°	1953.2	1381.5	60.2	38.2	26.1	16.2	11.0	9.3	8.6	8.0	7.8
60°	2070.9	1355.8	41.4	28.2	18.1	11.8	9.1	8.0	7.1	6.5	6.3
62.5°	2137.3	1285.5	26.7	20.3	12.9	8.8	7.3	6.7	5.4	4.8	4.8
65°	2110.4	1169.4	18.7	14.5	9.3	6.5	5.4	5.4	3.9	3.2	3.0
67.5°	1870.2	988.0	14.2	10.8	6.7	4.8	4.1	4.7	2.4	1.5	1.5
69°	1609.1	818.8	12.1	9.0	5.6	3.9	3.5	4.3	1.7	1.1	0.9
70°	1398.5	706.3	11.0	7.8	4.7	3.4	3.2	4.1	1.7	0.9	0.7
72.5°	836.7	393.9	8.4	5.6	3.0	2.6	2.6	4.7	1.7	0.9	0.7
75°	338.2	138.8	6.2	3.9	2.2	2.2	3.2	6.0	1.5	0.7	0.6
77.5°	76.7	30.4	3.5	2.4	1.5	2.2	3.7	4.7	0.9	0.4	0.0
80°	18.7	7.5	2.2	1.5	0.9	1.7	2.8	2.6	0.2	0.0	0.0
82.5°	6.2	2.6	0.9	0.7	0.2	0.6	1.3	0.7	0.0	0.0	0.0
85°	2.6	1.5	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)