

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: P349015

Luminaire Tested: **ARCH-N-PA1-60-827-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P349015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-2)
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-T2U-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: 4017 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

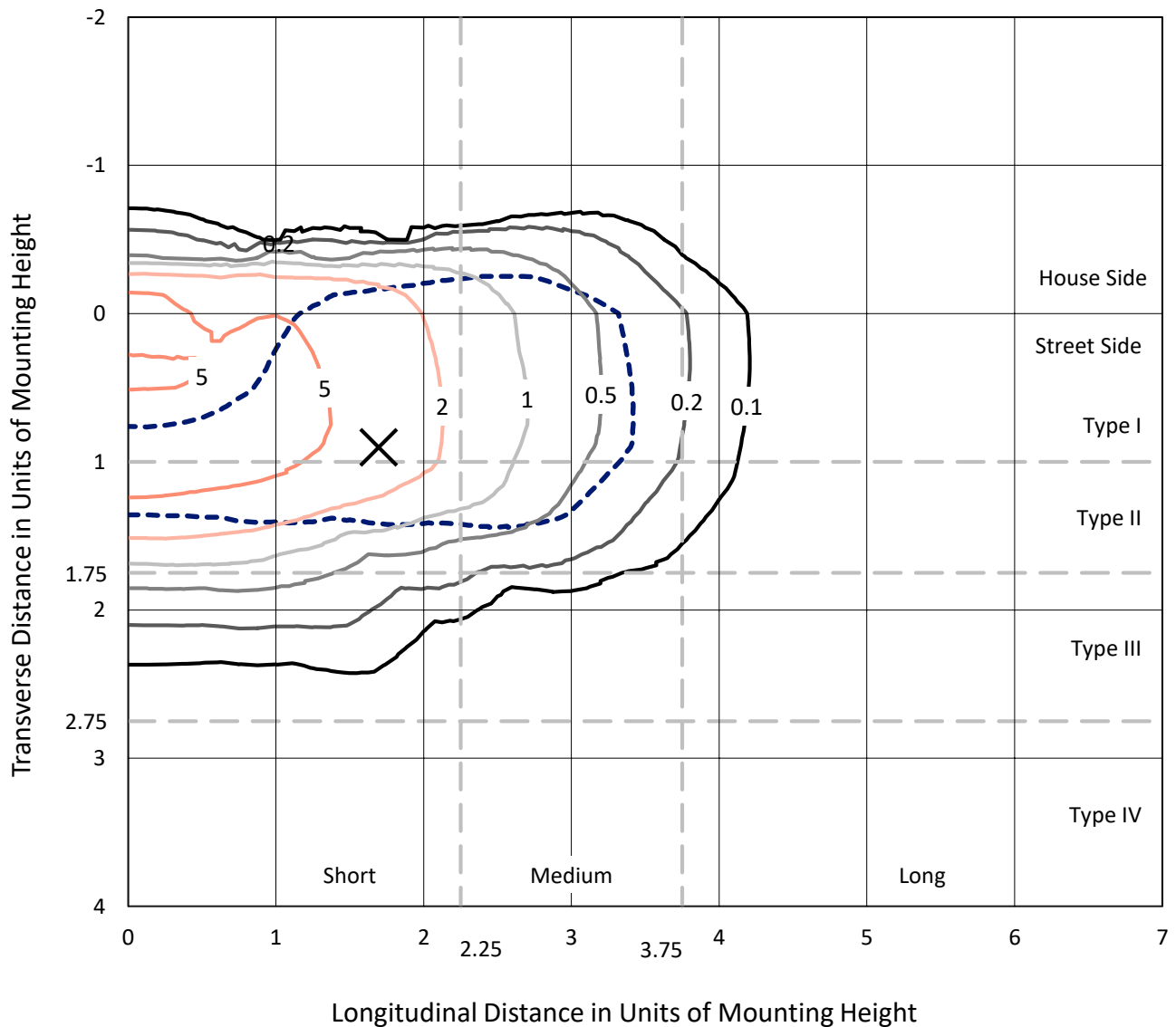
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

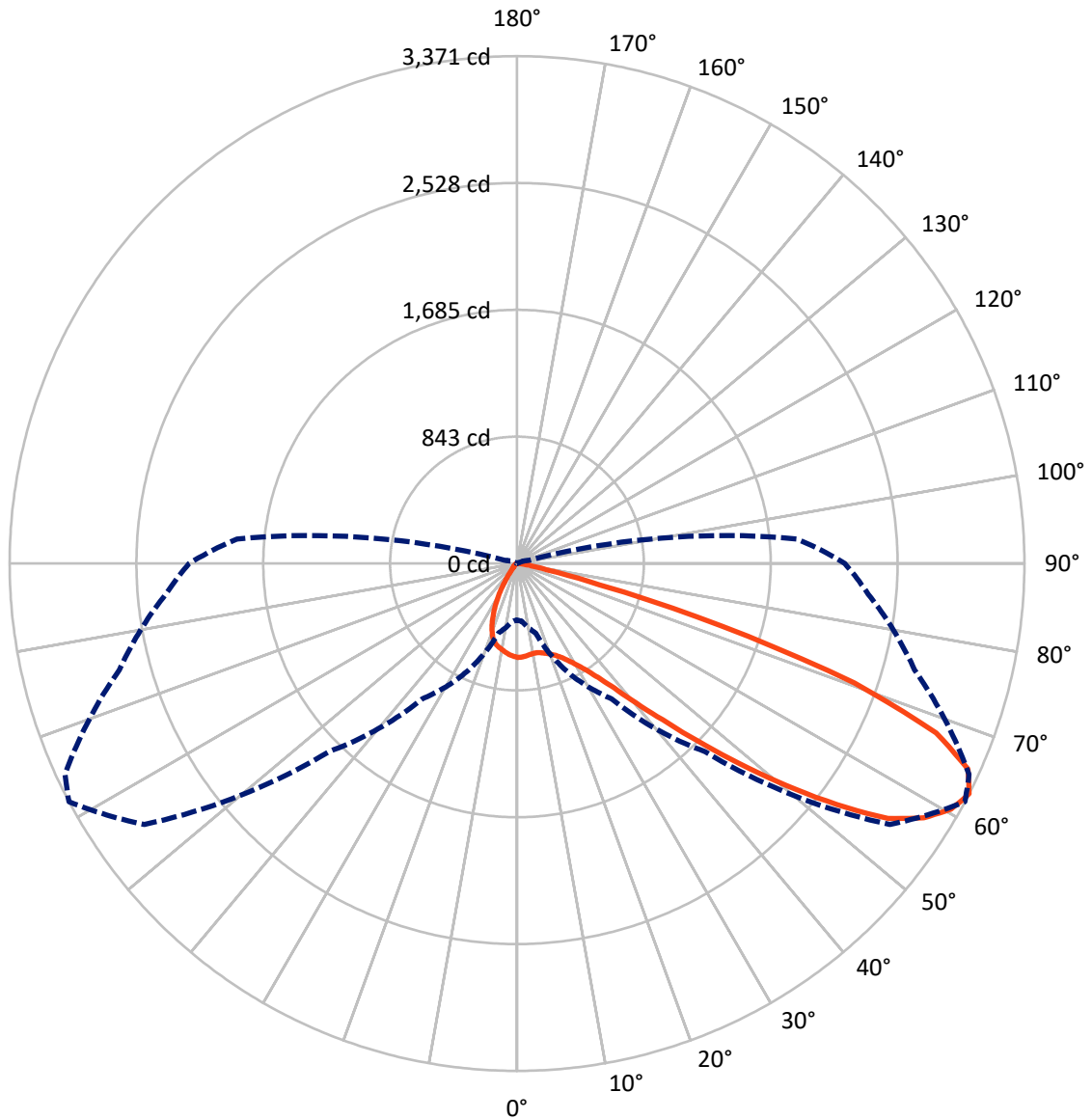
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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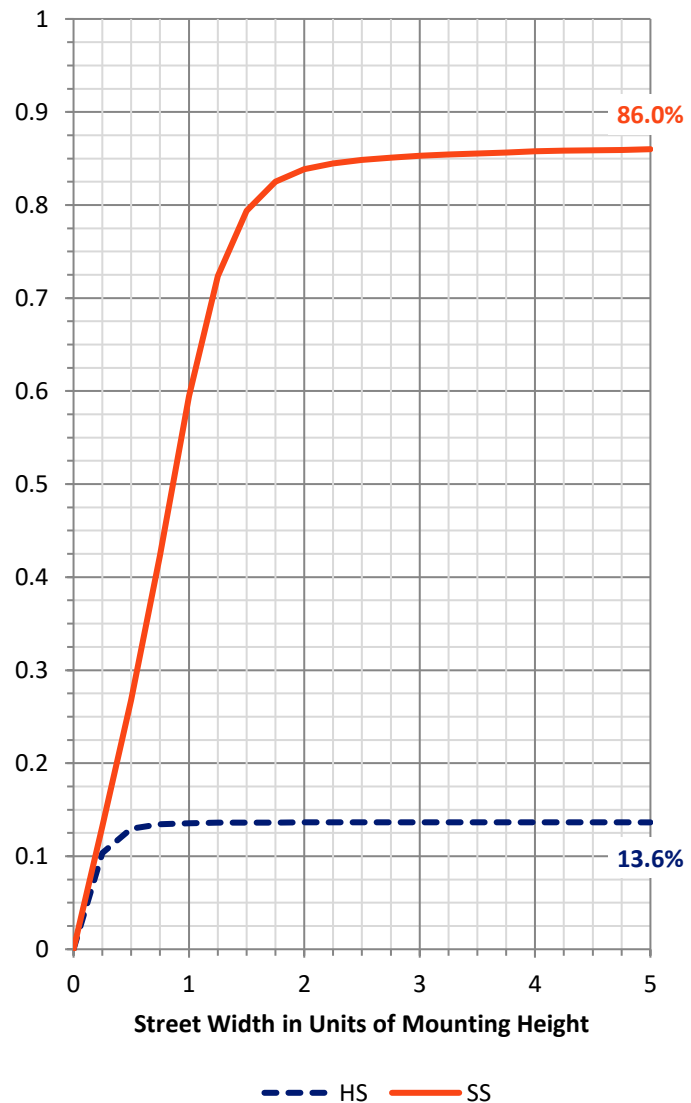
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	554.6	0.0	554.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	3462.4	0.0	3462.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	4017.0	0.0	4017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.4
10°-20°	142.7	3.6
20°-30°	213.0	5.3
30°-40°	405.9	10.1
40°-50°	846.4	21.1
50°-60°	1124.4	28.0
60°-70°	876.6	21.8
70°-80°	331.3	8.2
80°-90°	19.8	0.5
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°	4017.0	100.0
0°-180°	4017.0	100.0

Coefficient of Utilization



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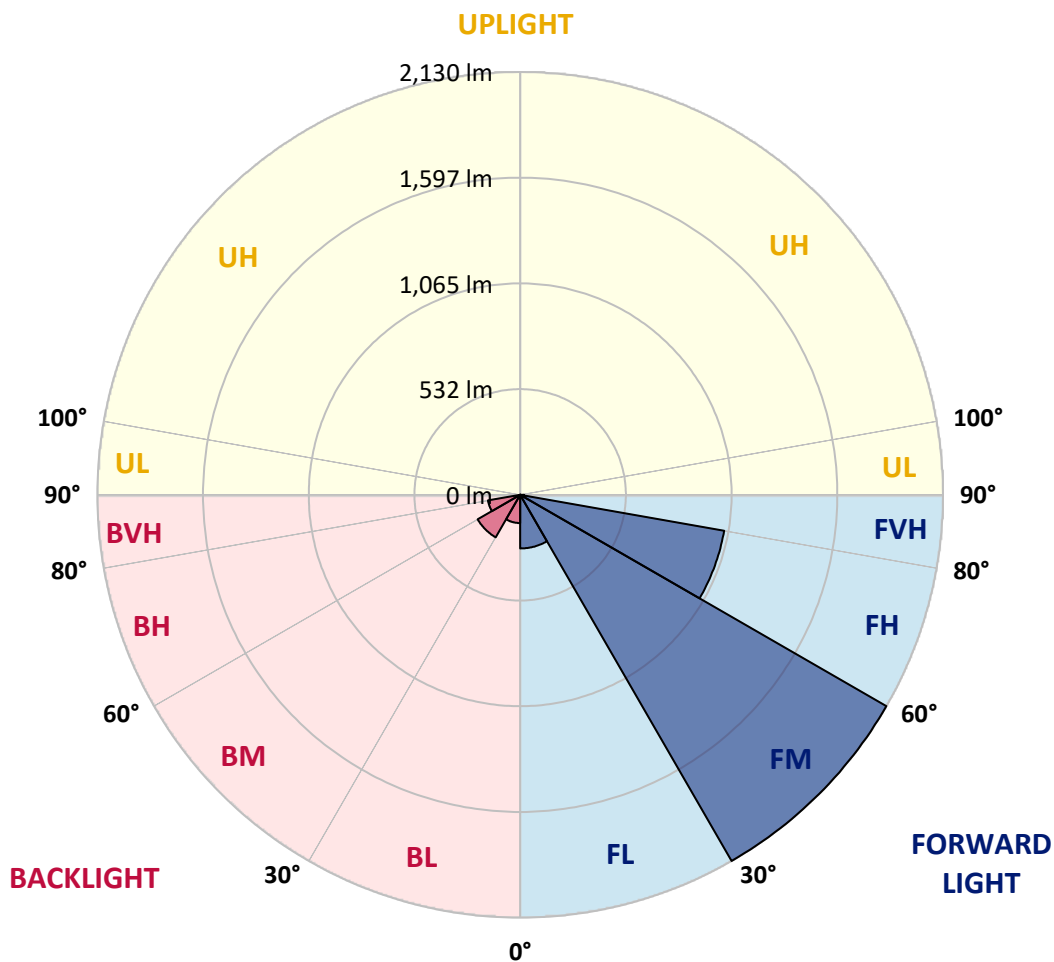
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.3	6.7			
FM	(30°-60°)	2129.8	53.0			
FH	(60°-80°)	1043.4	26.0			G1/1800
FVH	(80°-90°)	18.9	0.5			G1/100
BL	(0°-30°)	142.3	3.5	B1/500		
BM	(30°-60°)	246.9	6.1	B1/1000		
BH	(60°-80°)	164.5	4.1	B1/500		G1/500
BVH	(80°-90°)	0.9	0.0			G0/10
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°	62°	65°	75°	85°
0°	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1
2.5°	622.0	620.9	623.5	623.5	623.0	624.1	623.0	622.5	622.0	620.9	619.9
5°	605.7	605.7	609.4	611.0	612.5	615.7	616.7	617.8	617.2	618.3	618.8
7.5°	586.8	587.9	592.1	594.2	596.8	603.1	606.8	611.0	611.5	615.2	617.2
10°	571.1	572.1	576.3	578.9	582.6	591.0	598.9	606.2	607.3	614.1	615.7
12.5°	560.6	561.6	565.8	569.5	577.4	587.9	598.9	607.3	609.9	618.3	618.3
15°	556.4	557.4	562.7	569.0	579.5	593.1	606.8	615.7	620.9	627.7	624.6
17.5°	554.8	556.9	565.8	575.3	586.8	601.5	618.3	627.7	633.0	640.3	633.5
20°	559.5	562.1	573.7	586.8	598.9	614.1	632.5	643.0	648.2	652.9	639.8
22.5°	576.3	580.5	590.5	605.2	614.6	633.0	651.4	663.4	669.2	668.7	651.4
25°	616.7	622.0	626.7	634.6	638.8	660.8	680.2	692.3	696.5	694.9	675.0
27.5°	712.3	719.1	702.3	685.0	675.5	696.0	717.5	730.1	733.8	730.6	700.2
30°	873.4	873.9	835.6	781.0	740.6	738.5	764.7	781.5	781.5	775.2	735.9
32.5°	1108.0	1091.2	1042.9	946.3	855.0	807.3	827.2	843.5	843.5	835.6	790.5
35°	1403.0	1390.4	1310.6	1194.6	1031.9	917.5	913.3	929.0	929.5	927.4	876.0
37.5°	1703.2	1672.2	1605.6	1466.5	1275.4	1087.0	1036.6	1047.6	1055.5	1054.5	990.4
40°	1982.4	1951.5	1895.3	1761.5	1574.6	1336.8	1216.1	1216.1	1216.7	1211.4	1134.2
42.5°	2201.8	2187.7	2145.7	2052.8	1908.4	1730.0	1458.1	1418.2	1409.8	1404.6	1303.3
45°	2344.1	2329.4	2306.8	2287.4	2240.7	2176.6	1783.0	1678.5	1664.9	1613.5	1490.1
47.5°	2352.0	2329.4	2344.6	2418.1	2523.6	2556.7	2184.0	1981.9	1945.7	1852.8	1677.5
50°	2176.6	2178.7	2238.1	2416.5	2701.5	2889.9	2609.1	2315.7	2258.5	2072.7	1842.8
52.5°	1854.4	1875.4	1967.2	2241.7	2709.9	3103.0	2979.2	2660.1	2546.7	2270.1	1959.3
55°	1451.8	1470.7	1620.8	1917.9	2505.7	3133.5	3248.4	2989.7	2839.6	2407.6	2063.8
57.5°	1026.6	1062.3	1248.7	1521.6	2116.3	2901.0	3321.9	3187.0	3041.6	2541.4	2161.9
60°	624.1	641.9	835.6	1153.1	1595.1	2414.4	3235.8	3313.0	3195.4	2657.4	2253.8
62.5°	375.3	385.8	478.7	794.1	1097.5	1767.8	3022.7	3370.7	3313.0	2734.6	2342.0
65°	222.0	228.8	272.4	479.7	731.1	1084.4	2562.4	3291.5	3338.2	2801.2	2393.4
67.5°	160.1	162.2	177.9	258.2	490.8	581.0	1781.9	3002.8	3177.6	2823.3	2363.0
70°	138.0	140.7	155.9	181.6	347.5	342.7	927.4	2376.6	2693.6	2708.3	2234.4
72.5°	104.4	109.2	134.4	170.6	249.3	243.5	349.6	1417.2	1828.7	2223.4	1926.3
75°	70.9	73.5	99.7	144.9	194.7	181.6	183.2	569.0	894.4	1394.1	1323.7
77.5°	44.6	46.7	60.9	103.9	166.9	128.1	129.6	202.1	322.8	591.0	567.4
80°	30.4	31.5	36.7	67.2	112.8	111.3	83.5	105.5	120.2	182.1	122.3
82.5°	18.4	18.4	24.1	39.9	68.2	88.2	52.5	58.3	64.0	67.7	27.8
85°	6.3	6.8	14.7	24.7	42.0	44.1	29.9	34.6	36.2	39.4	13.1
87.5°	2.6	2.1	7.9	13.6	17.8	20.5	17.3	15.7	17.3	23.1	5.8
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°	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1
2.5°	620.4	618.3	618.3	617.8	614.6	613.1	611.5	607.3	609.9	606.8	604.7
5°	617.2	615.7	613.1	610.4	603.1	596.8	594.2	588.9	588.4	584.2	582.1
7.5°	616.7	613.1	608.9	599.9	588.9	578.9	570.0	561.1	557.4	552.7	550.1
10°	614.1	609.4	601.5	587.3	571.1	555.3	535.4	510.7	492.3	481.8	480.3
12.5°	614.6	609.4	597.3	576.3	554.8	520.1	466.6	410.5	364.3	344.8	341.7
15°	618.8	613.1	594.7	566.3	529.6	453.5	355.3	269.3	209.4	187.9	183.2
17.5°	624.1	614.1	588.9	552.2	481.3	351.7	223.6	141.2	107.6	95.5	93.4
20°	627.2	613.6	579.5	530.6	407.8	235.1	121.8	82.9	73.0	70.3	69.3
22.5°	635.1	615.2	571.6	497.1	315.4	141.7	77.2	64.6	58.8	55.6	55.1
25°	651.4	625.6	572.1	453.5	221.0	85.6	62.5	52.5	47.2	44.1	43.0
27.5°	675.0	644.5	582.1	399.4	136.5	64.6	52.0	42.5	36.7	34.1	33.6
30°	704.9	667.6	593.6	329.1	85.0	54.1	42.0	33.1	28.9	27.3	26.8
32.5°	752.1	707.5	603.6	246.2	58.8	44.6	33.1	26.2	23.6	22.0	22.0
35°	830.3	776.3	619.9	164.8	46.7	35.7	26.8	21.5	19.4	18.4	18.4
37.5°	940.6	874.4	627.7	102.4	38.3	27.8	21.5	17.8	16.3	15.2	15.2
40°	1074.9	993.6	616.7	63.5	32.0	22.6	17.8	15.2	13.6	13.1	13.1
42.5°	1229.8	1130.6	582.1	45.1	26.8	18.4	15.2	13.1	12.1	11.5	11.5
45°	1403.0	1280.7	519.6	37.8	22.6	15.7	13.1	11.0	10.5	10.0	10.0
47.5°	1575.7	1432.9	438.8	32.5	18.9	13.1	11.0	9.4	8.9	8.4	8.4
50°	1726.3	1566.2	353.2	28.3	15.7	11.5	9.4	7.9	7.3	6.8	6.8
52.5°	1812.4	1645.5	273.5	23.6	13.6	10.0	7.3	6.3	5.8	5.2	5.2
55°	1905.3	1711.6	204.2	19.9	11.0	8.4	5.8	4.7	4.2	3.7	3.7
57.5°	1991.9	1770.9	151.7	16.3	9.4	6.3	4.7	3.7	3.1	2.6	2.6
60°	2075.9	1821.3	112.3	13.1	7.9	5.2	3.7	2.6	2.1	1.6	1.6
62.5°	2178.2	1867.5	82.4	10.5	6.8	3.7	2.6	1.6	1.0	0.5	0.5
65°	2254.3	1891.1	61.9	7.9	5.8	2.6	1.6	1.0	0.0	0.0	0.0
67.5°	2253.8	1845.5	45.1	5.8	4.2	2.1	1.0	0.0	0.0	0.0	0.0
70°	2148.3	1706.9	31.5	4.7	3.1	1.6	0.5	0.0	0.0	0.0	0.0
72.5°	1842.3	1350.0	20.5	3.1	2.6	1.0	0.5	0.0	0.0	0.0	0.0
75°	1243.4	685.5	12.1	2.6	2.1	1.0	0.5	0.0	0.0	0.0	0.0
77.5°	531.7	269.3	6.3	1.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0
80°	111.3	65.1	2.6	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	18.9	9.4	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	2.6	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.0	0.5	0.5	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)