

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: P348809

Luminaire Tested: **ARCH-N-PA1-30-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-30-727-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2578 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 31
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

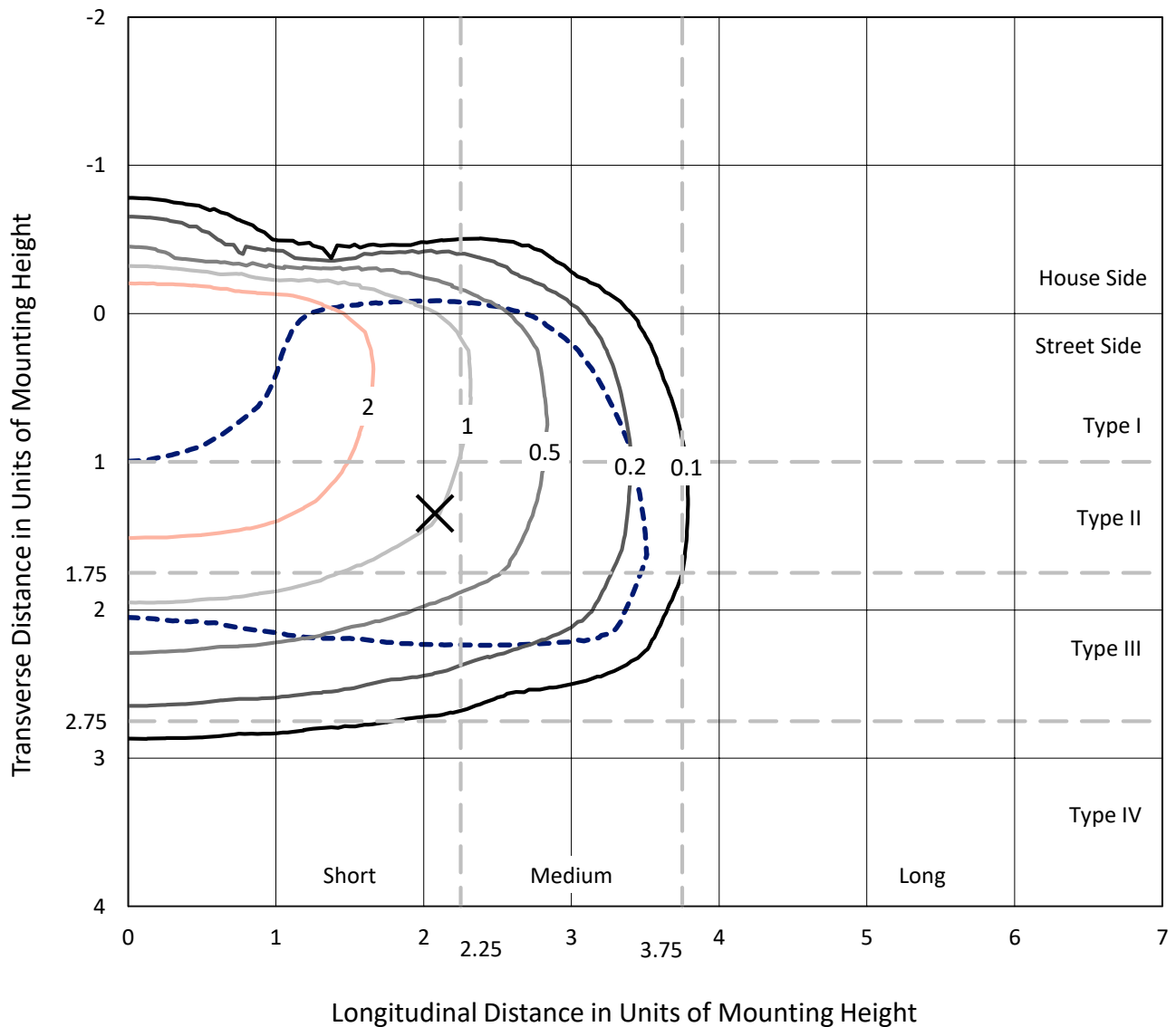


REPORT NUMBER: P348809

CATALOG NUMBER: ARCH-N-PA1-30-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

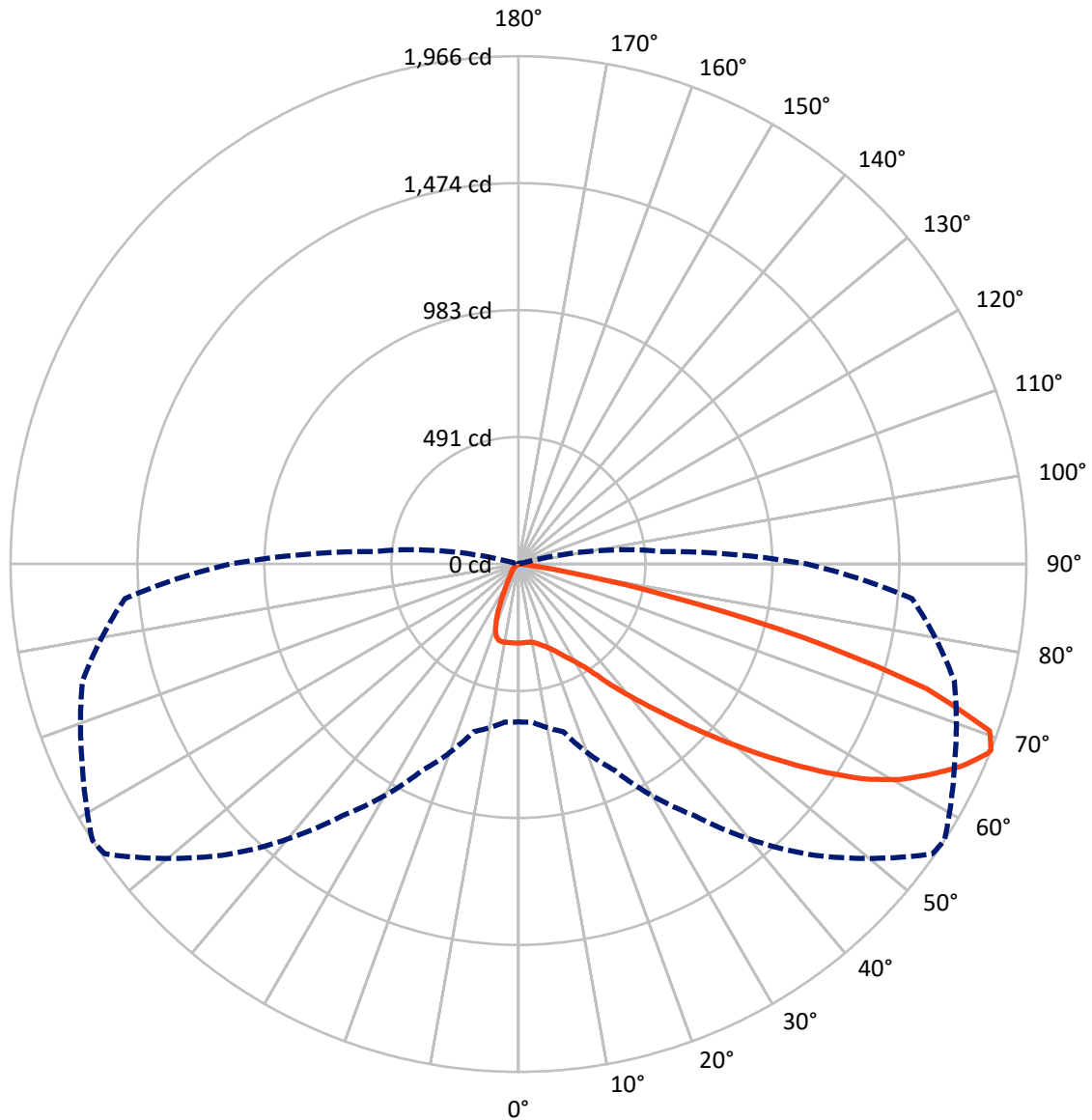


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P348809

CATALOG NUMBER: ARCH-N-PA1-30-727-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P348809

CATALOG NUMBER: ARCH-N-PA1-30-727-U-T3-HSS

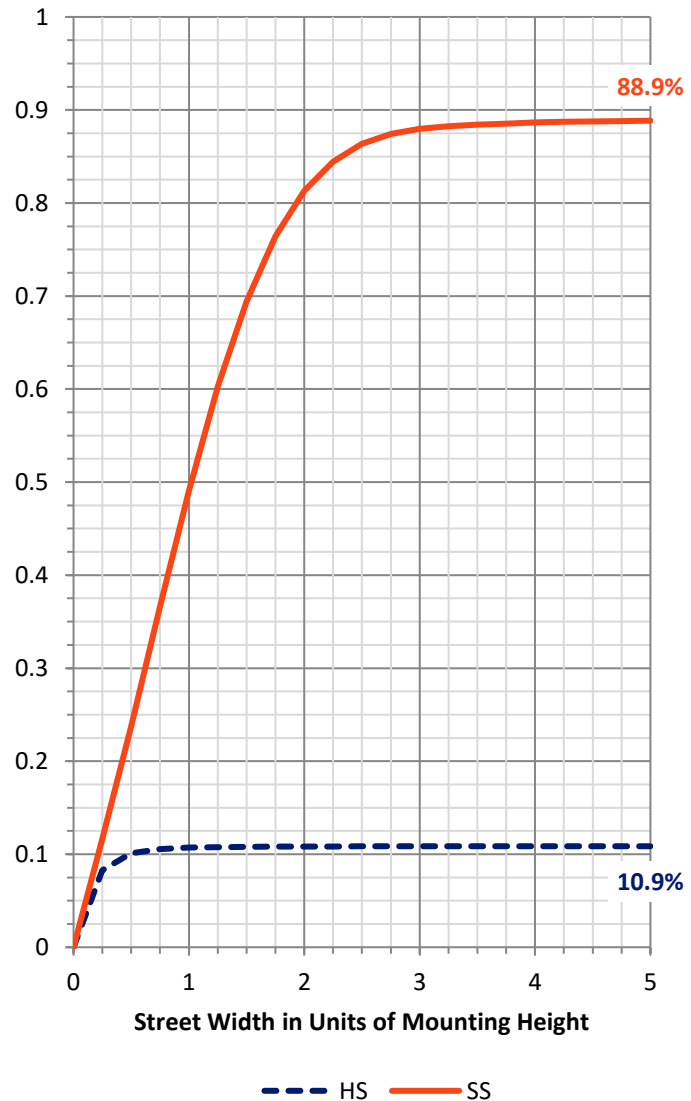
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	282.7	0.0	282.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	2295.3	0.0	2295.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	2578.0	0.0	2578.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	1.1
10°-20°	79.4	3.1
20°-30°	137.0	5.3
30°-40°	236.5	9.2
40°-50°	404.6	15.7
50°-60°	647.3	25.1
60°-70°	747.9	29.0
70°-80°	285.8	11.1
80°-90°	10.7	0.4
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°	2578.0	100.0
0°-180°	2578.0	100.0



REPORT NUMBER: P348809

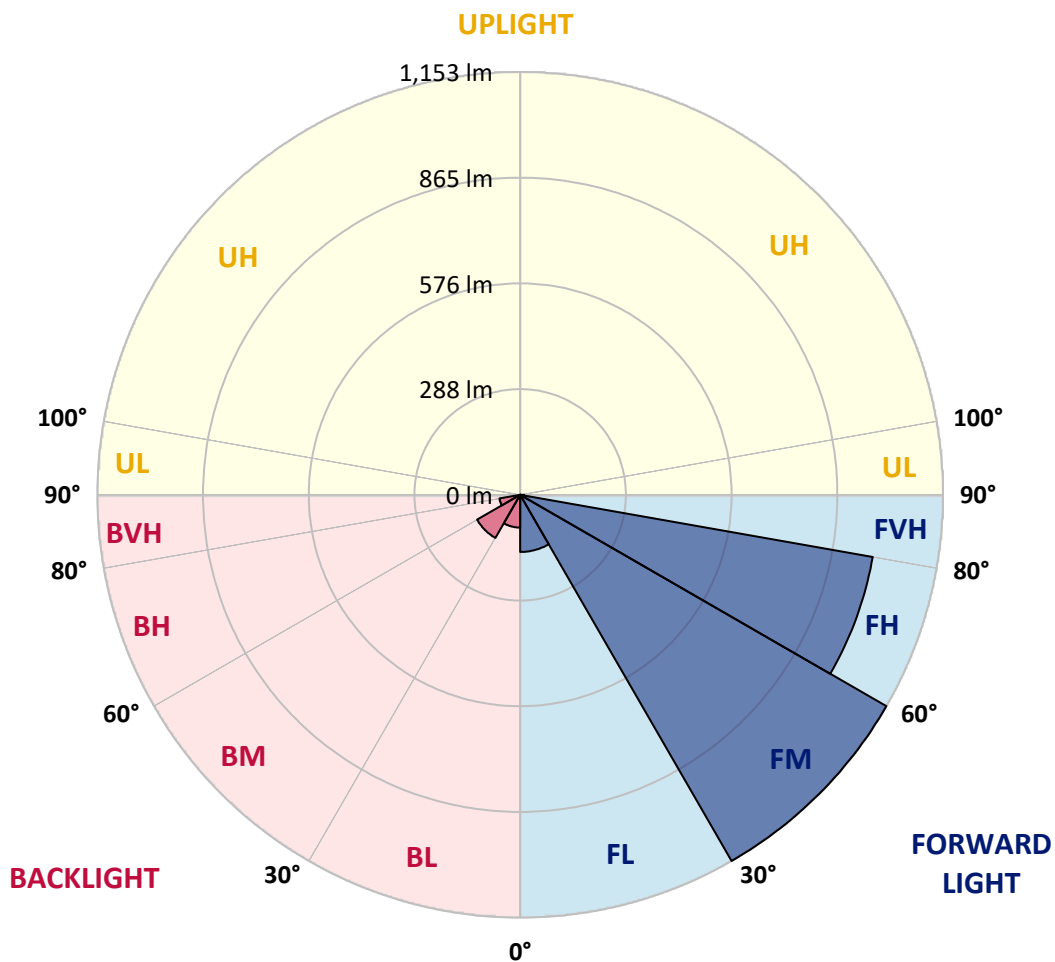
CATALOG NUMBER: ARCH-N-PA1-30-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.8	6.0			
FM	(30°-60°)	1152.9	44.7			
FH	(60°-80°)	976.1	37.9			G1/1800
FVH	(80°-90°)	10.5	0.4			G1/100
BL	(0°-30°)	89.3	3.5	B0/110		
BM	(30°-60°)	135.6	5.3	B0/220		
BH	(60°-80°)	57.6	2.2	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G1

Type III Short





REPORT NUMBER: P348809

CATALOG NUMBER: ARCH-N-PA1-30-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3
2.5°	299.1	300.5	301.5	302.1	302.8	304.4	304.9	305.6	306.0	306.0	306.8
5°	287.3	288.8	290.9	292.6	296.0	300.4	303.5	304.7	306.9	308.9	310.0
7.5°	276.3	278.1	280.5	284.5	290.4	297.4	304.0	305.7	310.0	314.1	316.2
10°	269.3	270.6	273.8	279.5	287.2	297.1	306.3	308.4	315.7	322.7	326.6
12.5°	266.8	268.1	271.3	277.8	287.3	298.9	311.7	314.7	325.5	335.6	341.1
15°	270.4	270.6	274.2	280.2	289.6	303.4	320.6	324.3	337.8	350.9	357.8
17.5°	284.0	282.9	284.8	287.4	294.9	309.4	330.0	335.5	353.5	369.0	375.5
20°	318.2	318.2	314.0	306.7	306.8	318.6	342.7	348.9	370.9	388.9	394.7
22.5°	376.5	375.5	367.2	349.2	332.8	334.6	358.1	366.2	391.9	411.0	413.0
25°	446.8	445.4	432.6	407.4	378.9	360.5	379.1	388.4	416.9	433.8	429.8
27.5°	521.1	520.0	507.3	476.0	435.4	401.7	404.1	412.9	442.4	459.1	446.3
30°	593.2	593.5	581.0	548.8	502.8	454.2	435.8	440.9	467.1	484.1	465.8
32.5°	661.7	662.2	651.3	615.4	572.4	515.3	479.7	478.3	495.9	512.6	491.6
35°	722.7	724.0	716.5	688.6	643.1	583.3	536.6	533.4	536.7	555.6	531.2
37.5°	781.6	782.4	776.7	753.2	715.2	658.0	608.5	604.0	596.9	611.4	583.5
40°	846.1	844.3	837.8	816.5	783.8	740.5	685.8	678.0	665.7	678.6	652.3
42.5°	906.1	904.0	905.1	881.0	853.4	825.4	775.9	762.5	755.3	770.2	736.6
45°	981.1	980.0	983.6	962.6	940.3	920.0	879.1	864.5	861.3	878.8	838.7
47.5°	1055.0	1057.7	1069.1	1060.2	1051.1	1033.2	988.5	981.9	983.9	1004.9	946.3
50°	1116.7	1119.9	1151.0	1161.2	1174.3	1163.8	1118.9	1114.9	1122.6	1141.6	1062.1
52.5°	1161.3	1167.8	1206.4	1253.6	1301.2	1308.2	1263.5	1259.8	1270.2	1273.1	1151.6
55°	1192.3	1198.0	1241.8	1328.1	1424.9	1455.4	1427.6	1413.4	1411.5	1382.6	1245.7
57.5°	1197.8	1197.2	1260.1	1376.2	1521.9	1600.5	1583.0	1569.1	1529.1	1483.8	1353.6
60°	1166.8	1170.4	1243.4	1392.9	1582.9	1710.4	1711.7	1693.7	1631.4	1582.1	1458.2
62.5°	1071.5	1085.9	1159.6	1349.2	1582.1	1754.6	1806.1	1792.3	1717.8	1662.7	1564.2
65°	916.9	922.1	992.4	1199.3	1475.2	1736.1	1891.0	1885.9	1795.7	1741.0	1618.7
67.5°	669.6	658.5	732.4	944.4	1249.0	1628.1	1952.0	1958.4	1855.8	1757.1	1560.7
68°	611.1	614.4	671.9	881.3	1189.7	1589.9	1956.0	1965.9	1861.8	1746.6	1529.0
70°	364.2	370.6	421.9	606.8	905.1	1374.1	1912.6	1935.2	1826.2	1638.5	1322.5
72.5°	93.0	100.6	149.1	271.6	517.0	968.1	1614.6	1652.7	1585.6	1329.2	892.8
75°	38.3	40.2	53.3	89.5	192.6	436.2	1064.2	1145.9	1099.2	795.8	403.5
77.5°	26.5	27.8	34.3	49.6	83.4	147.9	521.7	580.7	523.2	271.6	88.0
80°	19.0	20.1	24.5	33.0	47.9	52.8	170.1	196.6	156.2	59.6	21.8
82.5°	11.3	12.2	18.3	23.5	29.1	25.2	42.3	48.0	45.2	29.6	9.8
85°	5.6	6.6	12.3	16.8	15.7	10.6	12.9	14.4	17.8	18.0	5.2
87.5°	0.4	0.7	7.2	10.1	4.4	2.4	3.8	4.6	6.3	8.9	2.2
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: P348809

CATALOG NUMBER: ARCH-N-PA1-30-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3
2.5°	307.2	307.3	306.5	306.1	306.3	304.9	304.3	304.5	304.5	304.9	304.3
5°	310.2	310.2	308.8	306.8	305.7	302.9	301.1	300.6	300.2	300.0	299.5
7.5°	316.8	316.1	313.5	309.3	305.6	299.5	294.9	292.4	291.2	290.7	290.4
10°	327.4	326.1	321.8	313.9	305.5	294.6	284.5	277.3	271.3	268.9	267.4
12.5°	341.7	339.7	332.5	319.4	304.6	284.6	262.7	241.6	222.0	213.9	209.9
15°	358.1	355.3	344.0	324.0	299.6	262.1	214.4	177.5	150.3	140.1	135.7
17.5°	374.8	371.2	354.0	326.9	284.6	215.4	150.4	113.6	95.4	90.6	88.9
20°	391.7	386.3	362.7	324.7	250.7	155.3	99.2	83.0	77.8	76.3	75.8
22.5°	407.6	399.3	370.5	316.2	198.6	104.2	78.5	73.4	71.7	70.8	70.6
25°	421.5	409.9	377.3	289.9	140.6	78.7	70.7	69.0	66.8	65.2	65.3
27.5°	434.6	420.6	381.4	246.5	93.7	67.3	65.5	63.1	59.1	56.8	56.8
30°	450.3	434.7	384.5	189.7	69.0	59.5	58.0	54.5	49.0	46.0	46.0
32.5°	473.9	456.1	382.5	133.1	57.2	52.3	48.9	44.0	38.0	35.1	35.0
35°	510.2	489.3	368.6	87.3	50.5	45.5	40.0	34.0	28.8	26.3	26.2
37.5°	558.9	533.7	337.4	62.4	45.2	39.1	32.5	26.0	22.1	20.5	20.4
40°	622.2	585.2	292.8	50.6	40.3	33.0	25.1	20.1	17.4	16.2	16.3
42.5°	698.1	640.5	239.3	43.6	35.6	27.2	19.6	15.8	14.1	13.3	13.0
45°	782.5	695.0	183.2	38.9	30.8	21.9	15.4	12.6	11.2	10.7	10.7
47.5°	875.2	748.0	134.1	34.7	25.7	16.9	12.3	10.2	9.1	8.8	8.7
50°	959.5	784.8	96.7	30.4	21.1	13.4	10.0	8.5	7.8	7.3	7.3
52.5°	1029.7	796.4	71.2	25.6	17.1	10.7	8.3	7.3	6.6	6.2	6.2
55°	1091.5	791.6	52.9	21.1	13.8	8.8	7.1	6.2	5.6	5.2	5.2
57.5°	1150.7	776.3	39.5	17.2	11.1	7.1	6.0	5.2	4.6	4.4	4.4
60°	1199.1	750.7	29.4	13.9	8.9	5.7	5.0	4.3	3.8	3.4	3.4
62.5°	1238.4	722.4	21.6	11.5	7.1	4.5	3.9	3.5	2.8	2.4	2.4
65°	1238.6	675.4	16.2	9.5	5.5	3.5	2.9	2.8	1.8	1.5	1.3
67.5°	1149.0	582.3	12.4	8.2	4.3	2.7	2.2	2.3	1.0	0.6	0.5
68°	1116.5	558.7	11.7	8.0	4.0	2.6	2.1	2.3	0.9	0.5	0.4
70°	941.3	444.4	9.4	7.8	3.5	2.0	1.7	2.3	0.7	0.4	0.2
72.5°	602.1	257.9	6.9	6.2	2.7	1.5	1.1	2.1	0.7	0.2	0.1
75°	256.2	80.0	4.8	4.4	1.6	1.1	0.7	1.3	0.5	0.1	0.0
77.5°	54.0	18.0	2.8	2.7	1.1	0.7	0.5	0.4	0.1	0.0	0.0
80°	13.9	5.2	1.5	1.3	0.6	0.4	0.2	0.0	0.0	0.0	0.0
82.5°	4.4	2.1	0.9	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.4	0.1	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)