

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: P348754

Luminaire Tested: **ARCH-N-PA1-40-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-40-727-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3673 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G1

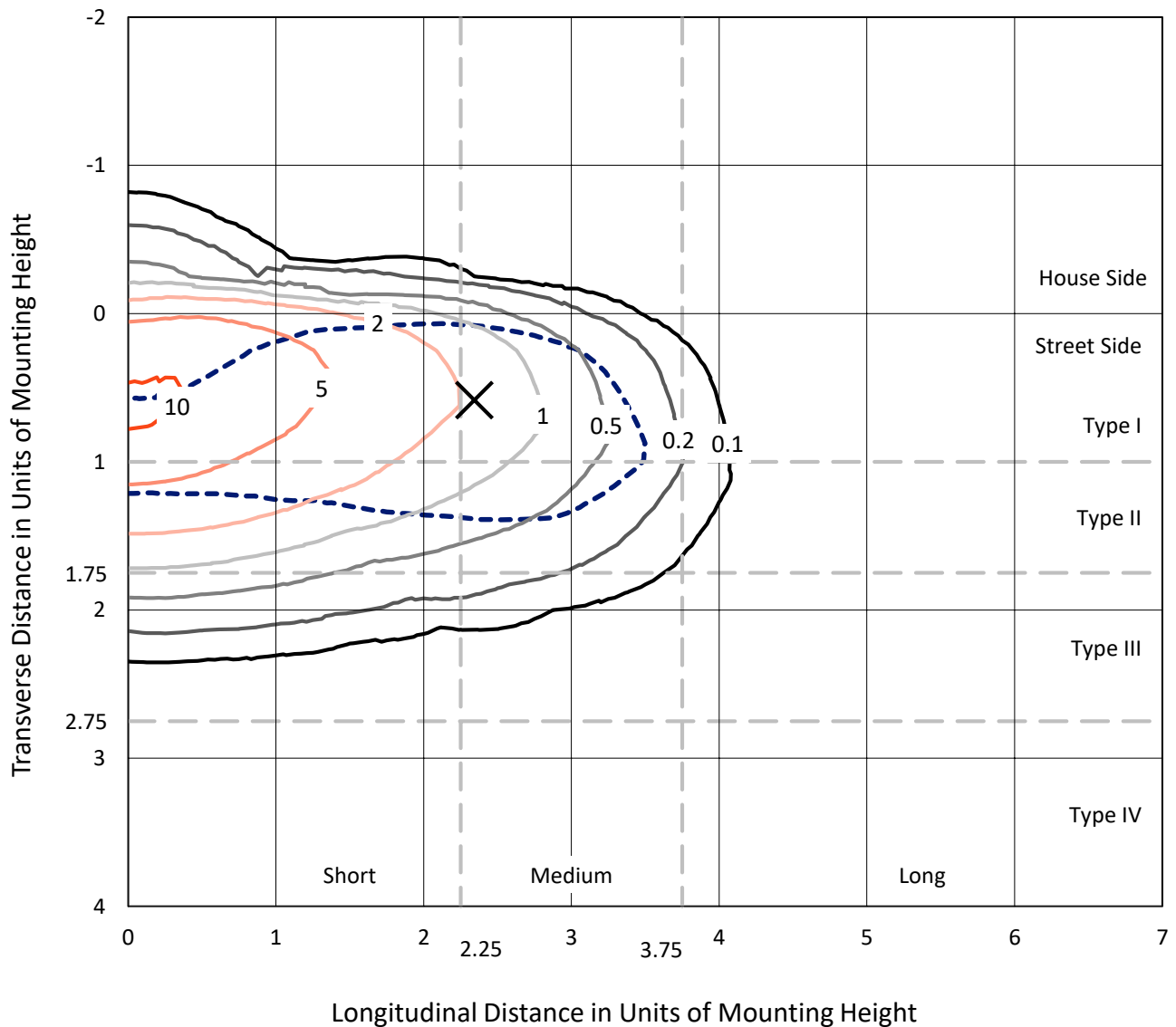
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348754
 CATALOG NUMBER: ARCH-N-PA1-40-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

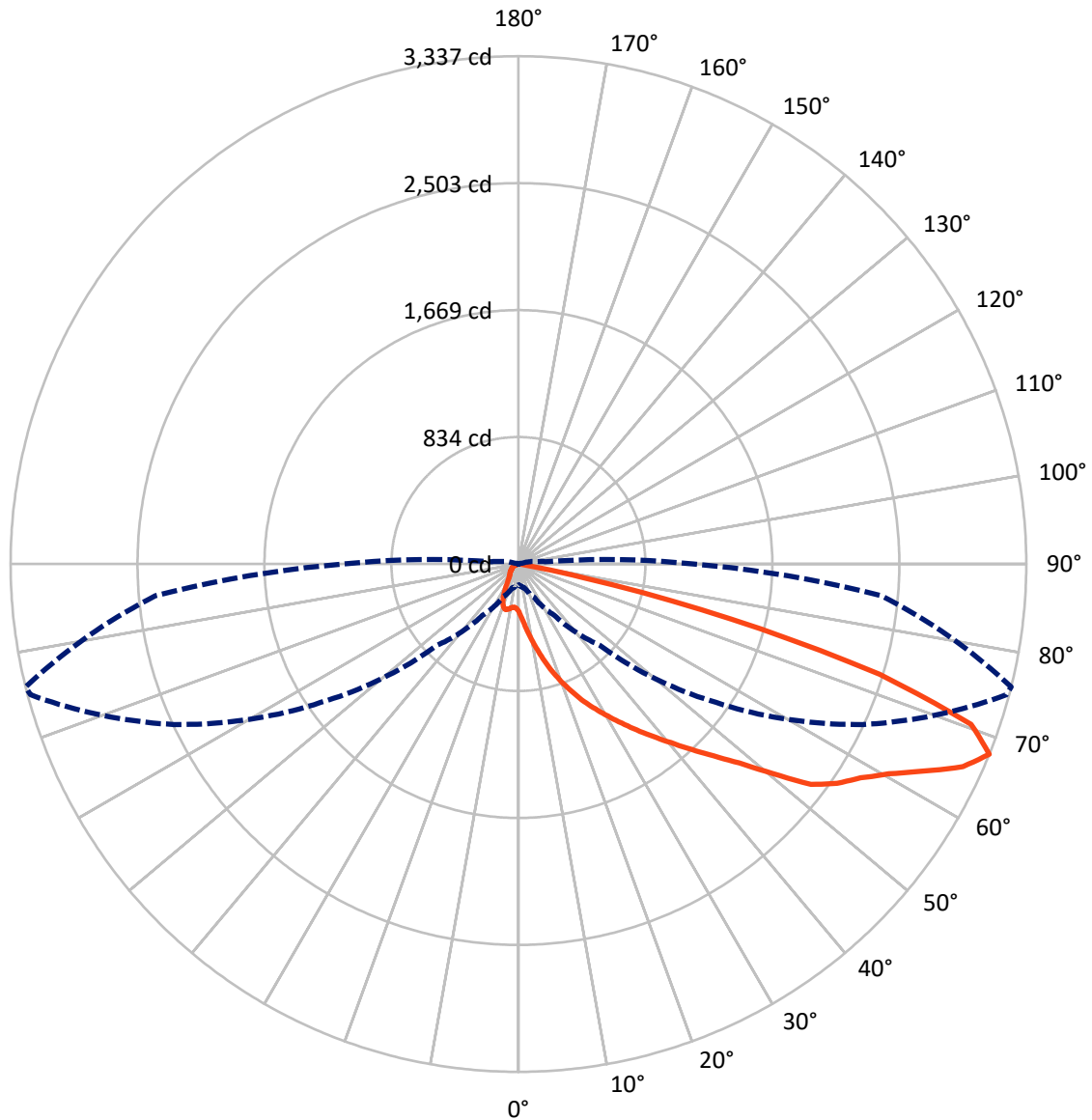
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P348754
CATALOG NUMBER: ARCH-N-PA1-40-727-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P348754

CATALOG NUMBER: ARCH-N-PA1-40-727-U-T2R-HSS

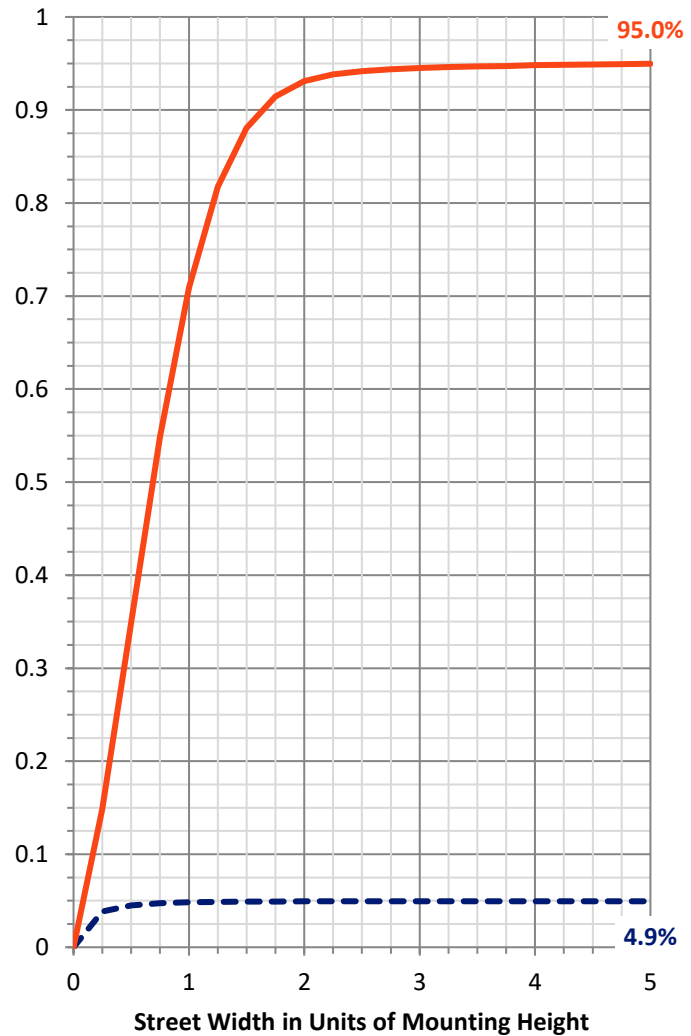
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	182.4	0.0	182.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3490.6	0.0	3490.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	3673.0	0.0	3673.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.1
10°-20°	153.6	4.2
20°-30°	312.5	8.5
30°-40°	542.4	14.8
40°-50°	766.3	20.9
50°-60°	869.1	23.7
60°-70°	720.8	19.6
70°-80°	261.1	7.1
80°-90°	8.5	0.2
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°	3673.0	100.0
0°-180°	3673.0	100.0



--- HS — SS

REPORT NUMBER: P348754

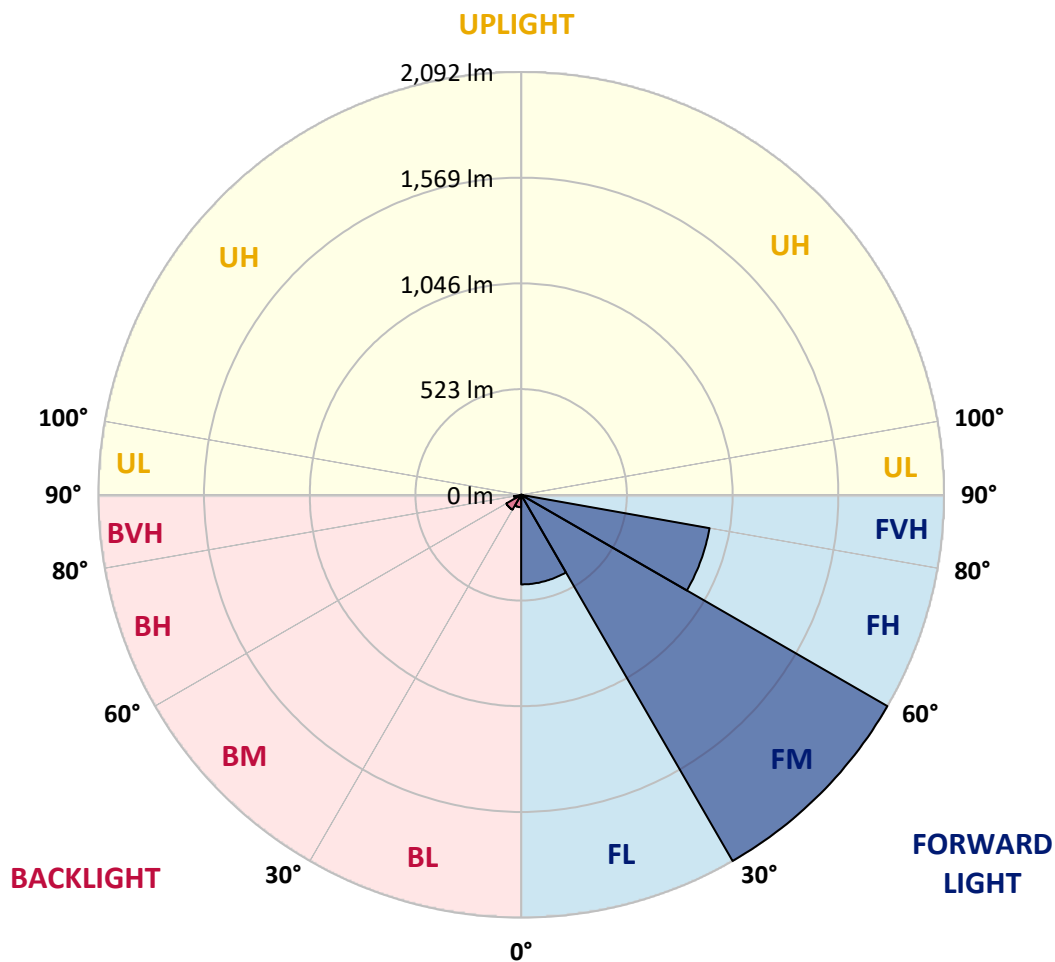
CATALOG NUMBER: ARCH-N-PA1-40-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	443.3	12.1			
FM	(30°-60°)	2092.4	57.0			
FH	(60°-80°)	946.7	25.8			G1/1800
FVH	(80°-90°)	8.2	0.2			G0/10
BL	(0°-30°)	61.5	1.7	B0/110		
BM	(30°-60°)	85.4	2.3	B0/220		
BH	(60°-80°)	35.2	1.0	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-G1

Type II Medium





REPORT NUMBER: P348754

CATALOG NUMBER: ARCH-N-PA1-40-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6
2.5°	465.1	454.7	457.1	450.3	438.1	413.0	391.6	371.3	347.6	346.8	327.3
5°	627.2	618.3	617.2	603.5	581.3	538.7	497.1	449.8	397.0	393.2	351.8
7.5°	774.3	767.2	764.6	748.4	707.0	665.5	611.4	541.9	459.3	452.2	384.8
10°	887.3	883.9	884.5	872.9	837.5	798.9	727.9	639.2	530.0	519.0	424.4
12.5°	972.9	973.7	979.5	972.4	952.6	923.9	848.1	743.1	608.2	593.2	469.6
15°	1035.8	1039.8	1050.4	1059.3	1057.8	1033.1	963.5	848.5	691.2	674.7	520.0
17.5°	1076.5	1081.0	1096.5	1116.1	1134.1	1128.3	1074.9	950.2	775.2	756.1	573.9
20°	1112.2	1117.6	1134.1	1160.0	1193.7	1200.9	1165.8	1048.8	859.1	835.8	629.6
22.5°	1189.7	1189.5	1199.6	1214.8	1246.8	1265.5	1243.2	1140.4	942.0	917.7	686.4
25°	1329.7	1324.4	1320.8	1308.9	1316.0	1327.6	1315.2	1226.0	1025.3	1000.7	744.0
27.5°	1496.1	1499.3	1470.7	1438.6	1413.8	1401.9	1381.7	1305.4	1105.5	1078.4	800.3
30°	1671.7	1672.6	1638.8	1598.0	1543.4	1498.2	1463.1	1381.2	1187.9	1158.4	855.1
32.5°	1830.0	1823.8	1790.3	1734.6	1665.7	1614.9	1542.0	1465.8	1275.1	1246.6	915.9
35°	1955.6	1948.2	1907.4	1856.7	1785.3	1734.1	1646.4	1550.3	1366.8	1339.0	976.9
37.5°	2047.3	2038.6	1996.8	1944.6	1883.0	1853.2	1767.6	1642.2	1467.0	1437.0	1041.1
40°	2079.2	2071.6	2045.4	2007.2	1957.7	1950.9	1896.2	1748.0	1575.9	1544.0	1113.9
42.5°	2060.2	2052.8	2043.4	2030.6	2010.0	2016.4	2017.5	1868.5	1696.9	1665.6	1194.2
45°	1984.9	1978.3	1987.9	2006.7	2032.3	2064.2	2128.2	1998.1	1832.1	1798.6	1287.0
47.5°	1874.0	1869.1	1895.9	1942.8	2017.7	2105.6	2229.5	2134.2	1983.9	1952.8	1402.9
50°	1716.2	1715.4	1768.9	1854.7	1969.7	2125.5	2334.1	2289.0	2194.7	2162.0	1564.0
52.5°	1470.7	1472.3	1577.4	1714.6	1885.6	2112.0	2401.4	2487.9	2440.0	2406.0	1703.5
55°	1236.8	1246.5	1321.0	1518.9	1756.5	2061.8	2424.5	2580.8	2575.3	2543.1	1781.1
57.5°	1007.8	1025.3	1097.1	1282.0	1568.0	1946.1	2411.8	2621.0	2676.1	2651.5	1883.5
60°	759.6	767.7	850.4	1023.2	1326.1	1734.9	2319.6	2642.9	2813.8	2796.8	2032.0
62.5°	483.3	503.4	576.8	743.5	1032.6	1441.7	2164.1	2642.6	2986.2	2995.5	2223.7
65°	254.6	278.1	317.0	460.8	709.6	1114.2	1930.3	2617.8	3197.7	3210.7	2373.5
67.5°	137.3	144.0	164.6	239.2	411.5	754.8	1586.7	2495.5	3320.2	3337.4	2394.4
70°	100.4	104.1	111.9	132.3	207.1	438.4	1157.8	2218.2	3162.3	3155.8	2127.4
72.5°	77.1	82.9	88.7	96.9	119.1	234.0	720.8	1737.0	2523.2	2480.7	1590.2
75°	60.8	61.8	70.0	77.4	89.3	133.3	320.1	1011.7	1540.0	1439.4	824.6
77.5°	48.6	49.2	54.1	60.5	71.8	87.6	99.1	398.0	491.7	438.7	179.0
80°	28.8	30.4	40.2	46.7	59.5	55.2	36.2	86.4	76.8	69.5	30.1
82.5°	16.1	17.4	22.7	36.9	41.5	26.4	18.0	23.3	18.0	17.5	8.5
85°	0.0	0.8	14.6	22.9	16.9	5.8	7.6	7.7	5.3	5.0	3.4
87.5°	0.0	0.0	4.5	4.3	0.6	1.0	1.8	2.6	2.1	2.1	1.8
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: P348754

CATALOG NUMBER: ARCH-N-PA1-40-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6
2.5°	317.7	309.0	292.6	276.5	263.0	251.9	241.9	237.9	234.6	234.2	231.6
5°	331.9	314.3	282.9	257.2	240.0	227.7	217.3	210.8	205.8	203.9	202.1
7.5°	353.3	326.7	281.6	252.0	231.4	210.8	191.5	170.6	157.6	152.6	149.7
10°	379.3	343.1	286.5	250.6	214.5	171.1	139.1	112.5	101.7	98.2	97.2
12.5°	409.7	363.6	294.8	241.6	178.5	121.5	95.9	86.9	84.5	83.4	83.4
15°	444.7	385.9	300.8	215.5	132.0	91.9	83.0	78.9	76.3	74.8	75.0
17.5°	480.4	407.8	297.9	177.7	97.4	81.8	75.2	70.7	67.1	65.7	65.3
20°	516.5	428.1	281.8	132.3	82.4	74.2	66.8	61.8	58.3	56.8	56.5
22.5°	553.8	445.3	253.5	97.0	74.0	65.8	58.6	53.6	50.2	48.9	48.3
25°	590.2	459.3	213.9	78.5	66.1	57.9	51.0	46.4	43.3	42.0	41.8
27.5°	624.1	468.2	168.0	69.4	59.2	50.9	44.6	40.4	37.8	36.9	36.7
30°	654.7	469.0	124.2	62.6	53.1	44.7	38.9	35.2	33.0	32.0	31.7
32.5°	685.6	462.2	90.4	56.5	47.5	39.4	33.8	30.9	29.3	28.5	28.5
35°	714.7	446.6	70.5	51.2	42.0	34.3	29.8	27.7	26.7	25.9	25.9
37.5°	743.2	424.2	59.9	46.5	36.9	29.9	26.2	24.9	24.1	23.3	23.3
40°	772.2	396.1	54.4	42.2	32.7	26.6	23.3	22.2	21.4	20.8	20.6
42.5°	807.7	363.6	50.9	38.1	29.0	23.5	20.6	19.3	18.7	18.0	17.7
45°	849.0	335.6	48.0	34.1	25.9	20.9	17.9	16.6	15.6	14.8	14.6
47.5°	908.3	315.3	44.1	29.8	23.0	18.2	15.5	14.0	12.6	11.7	11.6
50°	984.1	298.5	39.1	25.9	20.1	15.5	12.9	11.1	9.8	9.0	9.0
52.5°	1021.8	276.7	34.6	22.5	16.9	13.0	10.5	8.4	7.7	6.9	6.9
55°	1036.9	259.9	30.1	19.2	14.0	10.8	8.2	6.4	6.0	5.5	5.3
57.5°	1079.4	255.1	26.2	16.3	11.6	8.5	6.3	4.8	4.5	3.9	3.9
60°	1147.8	257.5	22.7	13.8	9.3	6.6	4.7	3.7	3.4	2.7	2.7
62.5°	1221.7	254.4	19.2	11.9	7.2	4.8	3.2	2.7	2.7	1.6	1.4
65°	1235.8	226.6	16.4	9.8	5.6	3.5	2.1	1.8	2.4	0.3	0.0
67.5°	1147.0	175.7	14.2	7.6	4.2	2.7	1.6	0.8	2.1	0.0	0.0
70°	917.2	111.7	11.4	5.5	3.2	2.3	1.3	0.3	1.6	0.0	0.0
72.5°	648.6	64.9	9.0	3.9	2.7	1.8	1.0	0.0	1.0	0.0	0.0
75°	328.0	34.6	5.6	2.9	2.1	1.3	0.6	0.0	0.2	0.0	0.0
77.5°	71.0	16.1	3.5	2.1	1.4	0.8	0.3	0.0	0.0	0.0	0.0
80°	15.5	7.1	2.3	1.3	0.8	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	5.6	3.7	1.1	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.6	0.2	0.2	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)