

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: P348752

Luminaire Tested: **ARCH-N-PA1-20-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348752
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-PA1-20-727-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2261 lumens
Efficiency: N/A
Efficacy: 94.2 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 - G0

Input Watts (W): 24
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

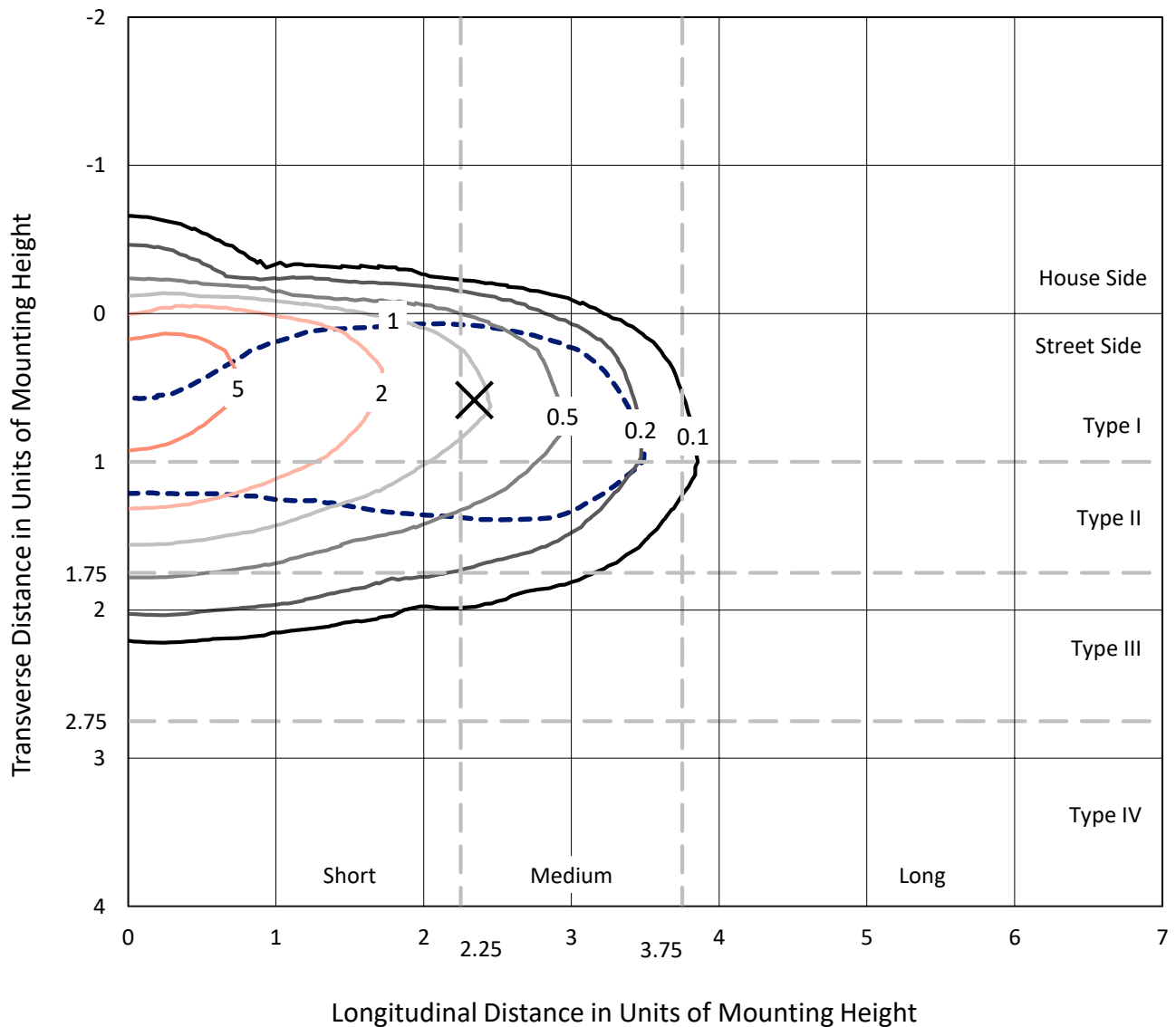




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Iso-Footcandle Lines of Horizontal Illumination

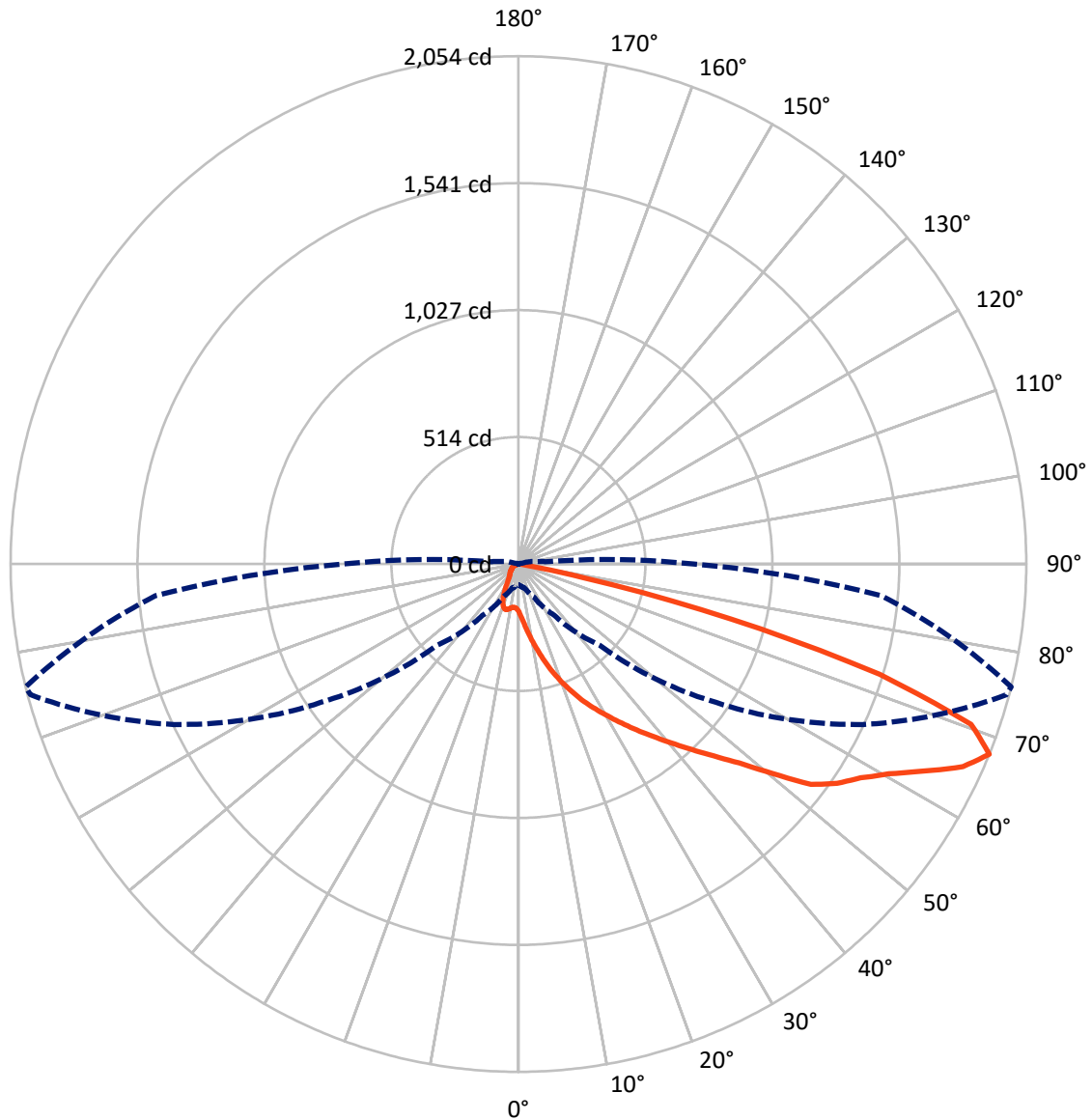
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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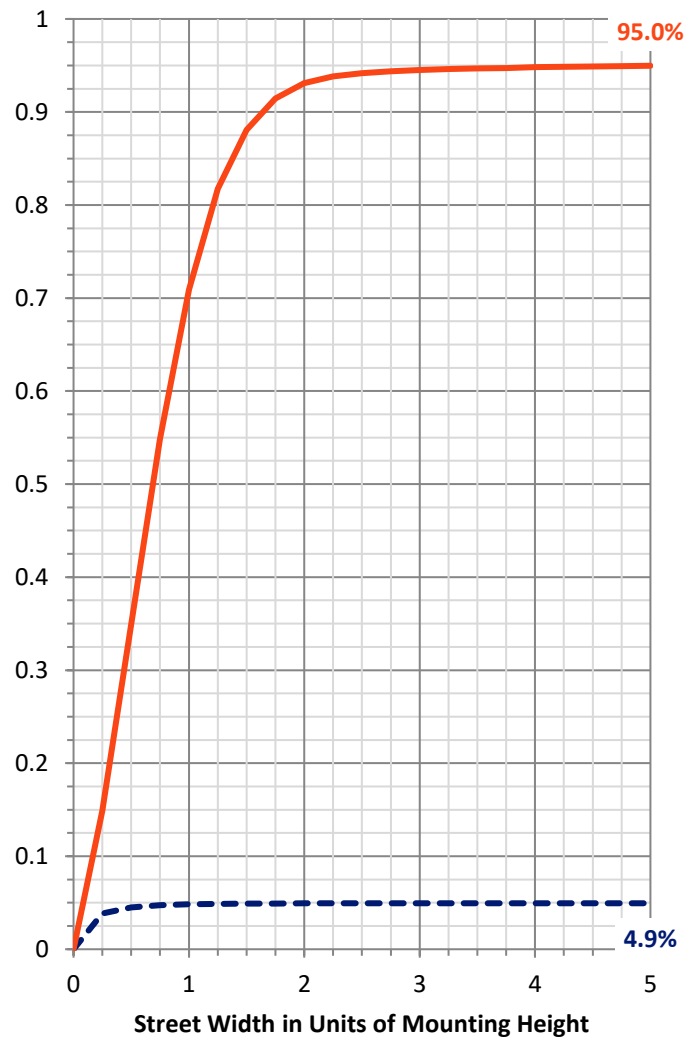
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	112.3	0.0	112.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2148.7	0.0	2148.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	2261.0	0.0	2261.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	1.1
10°-20°	94.5	4.2
20°-30°	192.4	8.5
30°-40°	333.9	14.8
40°-50°	471.7	20.9
50°-60°	535.0	23.7
60°-70°	443.7	19.6
70°-80°	160.7	7.1
80°-90°	5.2	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°	2261.0	100.0
0°-180°	2261.0	100.0



--- HS — SS

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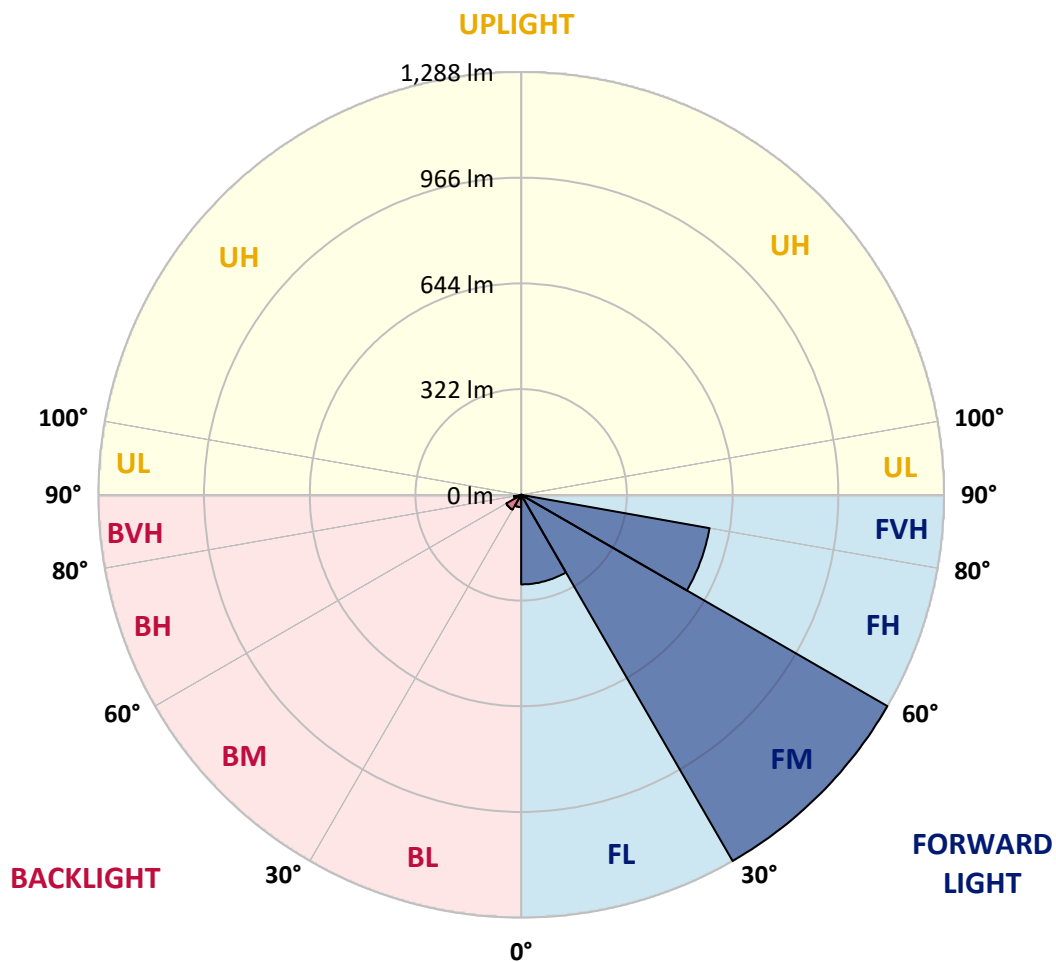
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	272.9	12.1			
FM (30°-60°)	1288.1	57.0			
FH (60°-80°)	582.7	25.8			G0/660
FVH (80°-90°)	5.1	0.2			G0/10
BL (0°-30°)	37.9	1.7	B0/110		
BM (30°-60°)	52.6	2.3	B0/220		
BH (60°-80°)	21.7	1.0	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-G0

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	191.8	191.8	191.8	191.8	191.8	191.8	191.8	191.8	191.8	191.8	191.8
2.5°	286.3	279.9	281.4	277.2	269.7	254.2	241.0	228.6	214.0	213.5	201.5
5°	386.1	380.6	379.9	371.5	357.8	331.6	306.0	276.9	244.4	242.0	216.6
7.5°	476.6	472.3	470.7	460.7	435.2	409.7	376.4	333.6	282.7	278.4	236.9
10°	546.2	544.1	544.5	537.4	515.6	491.8	448.1	393.5	326.2	319.5	261.2
12.5°	598.9	599.4	602.9	598.6	586.4	568.8	522.1	457.4	374.4	365.2	289.1
15°	637.6	640.1	646.6	652.1	651.2	635.9	593.1	522.3	425.5	415.3	320.1
17.5°	662.7	665.4	675.0	687.0	698.1	694.6	661.7	584.9	477.2	465.4	353.3
20°	684.7	687.9	698.1	714.1	734.8	739.3	717.7	645.6	528.8	514.5	387.6
22.5°	732.3	732.2	738.5	747.8	767.5	779.0	765.3	702.0	579.9	564.9	422.5
25°	818.5	815.2	813.1	805.7	810.1	817.2	809.6	754.7	631.2	616.0	458.0
27.5°	920.9	922.9	905.3	885.6	870.3	863.0	850.5	803.6	680.5	663.9	492.7
30°	1029.0	1029.6	1008.8	983.7	950.1	922.2	900.6	850.2	731.2	713.1	526.4
32.5°	1126.5	1122.7	1102.0	1067.8	1025.4	994.1	949.2	902.3	784.9	767.4	563.8
35°	1203.8	1199.2	1174.2	1143.0	1099.0	1067.5	1013.5	954.3	841.4	824.3	601.4
37.5°	1260.3	1254.9	1229.2	1197.1	1159.1	1140.8	1088.1	1010.9	903.0	884.6	640.9
40°	1279.9	1275.2	1259.1	1235.6	1205.1	1200.9	1167.2	1076.0	970.1	950.5	685.7
42.5°	1268.2	1263.6	1257.9	1250.0	1237.3	1241.2	1241.9	1150.2	1044.6	1025.3	735.1
45°	1221.8	1217.8	1223.7	1235.3	1251.0	1270.7	1310.1	1229.9	1127.8	1107.2	792.3
47.5°	1153.6	1150.6	1167.0	1196.0	1242.0	1296.1	1372.4	1313.8	1221.2	1202.1	863.6
50°	1056.5	1056.0	1088.9	1141.7	1212.5	1308.4	1436.8	1409.1	1351.0	1330.9	962.8
52.5°	905.3	906.3	971.0	1055.5	1160.7	1300.1	1478.2	1531.5	1502.0	1481.1	1048.6
55°	761.3	767.3	813.2	935.0	1081.2	1269.2	1492.5	1588.7	1585.3	1565.5	1096.4
57.5°	620.4	631.2	675.4	789.2	965.2	1197.9	1484.7	1613.4	1647.3	1632.2	1159.4
60°	467.6	472.6	523.5	629.9	816.3	1068.0	1427.9	1626.9	1732.1	1721.6	1250.8
62.5°	297.5	309.9	355.1	457.7	635.6	887.5	1332.2	1626.7	1838.2	1844.0	1368.8
65°	156.7	171.2	195.2	283.6	436.8	685.9	1188.2	1611.5	1968.4	1976.4	1461.1
67.5°	84.5	88.7	101.3	147.2	253.3	464.6	976.7	1536.2	2043.8	2054.4	1474.0
70°	61.8	64.1	68.9	81.4	127.5	269.9	712.7	1365.5	1946.6	1942.7	1309.6
72.5°	47.5	51.0	54.6	59.6	73.3	144.0	443.7	1069.3	1553.2	1527.1	978.9
75°	37.4	38.0	43.1	47.7	55.0	82.0	197.0	622.8	948.0	886.1	507.6
77.5°	29.9	30.3	33.3	37.3	44.2	53.9	61.0	245.0	302.7	270.1	110.2
80°	17.7	18.7	24.8	28.7	36.7	34.0	22.3	53.2	47.3	42.8	18.5
82.5°	9.9	10.7	14.0	22.7	25.6	16.2	11.1	14.4	11.1	10.8	5.3
85°	0.0	0.5	9.0	14.1	10.4	3.6	4.7	4.8	3.3	3.1	2.1
87.5°	0.0	0.0	2.8	2.7	0.4	0.6	1.1	1.6	1.3	1.3	1.1
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°	191.8	191.8	191.8	191.8	191.8	191.8	191.8	191.8	191.8	191.8	191.8
2.5°	195.6	190.2	180.1	170.2	161.9	155.0	148.9	146.4	144.4	144.1	142.6
5°	204.3	193.5	174.2	158.3	147.7	140.2	133.7	129.8	126.7	125.5	124.4
7.5°	217.5	201.1	173.4	155.1	142.5	129.8	117.9	105.0	97.0	93.9	92.1
10°	233.5	211.2	176.3	154.3	132.1	105.3	85.6	69.2	62.6	60.4	59.8
12.5°	252.2	223.8	181.5	148.7	109.9	74.8	59.0	53.5	52.0	51.3	51.3
15°	273.7	237.6	185.2	132.7	81.2	56.6	51.1	48.5	47.0	46.1	46.2
17.5°	295.7	251.0	183.4	109.4	59.9	50.3	46.3	43.5	41.3	40.4	40.2
20°	317.9	263.5	173.5	81.4	50.7	45.7	41.1	38.0	35.9	35.0	34.8
22.5°	340.9	274.1	156.0	59.7	45.6	40.5	36.1	33.0	30.9	30.1	29.7
25°	363.3	282.7	131.7	48.3	40.7	35.7	31.4	28.5	26.6	25.9	25.8
27.5°	384.2	288.2	103.4	42.7	36.5	31.3	27.4	24.9	23.3	22.7	22.6
30°	403.0	288.7	76.5	38.5	32.7	27.5	24.0	21.7	20.3	19.7	19.5
32.5°	422.0	284.5	55.7	34.8	29.2	24.3	20.8	19.0	18.0	17.5	17.5
35°	440.0	274.9	43.4	31.5	25.9	21.1	18.3	17.0	16.4	16.0	16.0
37.5°	457.5	261.1	36.9	28.6	22.7	18.4	16.1	15.4	14.9	14.4	14.4
40°	475.3	243.8	33.5	26.0	20.1	16.3	14.4	13.7	13.2	12.8	12.7
42.5°	497.2	223.8	31.3	23.5	17.8	14.5	12.7	11.9	11.5	11.1	10.9
45°	522.6	206.6	29.5	21.0	16.0	12.9	11.0	10.2	9.6	9.1	9.0
47.5°	559.1	194.1	27.1	18.3	14.2	11.2	9.5	8.6	7.7	7.2	7.1
50°	605.8	183.8	24.1	16.0	12.4	9.5	7.9	6.8	6.0	5.5	5.5
52.5°	629.0	170.3	21.3	13.9	10.4	8.0	6.4	5.2	4.8	4.3	4.3
55°	638.3	160.0	18.5	11.8	8.6	6.6	5.1	4.0	3.7	3.4	3.3
57.5°	664.5	157.0	16.1	10.0	7.1	5.3	3.9	3.0	2.8	2.4	2.4
60°	706.6	158.5	14.0	8.5	5.7	4.1	2.9	2.3	2.1	1.7	1.7
62.5°	752.0	156.6	11.8	7.3	4.5	3.0	2.0	1.7	1.7	1.0	0.9
65°	760.8	139.5	10.1	6.0	3.5	2.2	1.3	1.1	1.5	0.2	0.0
67.5°	706.1	108.2	8.7	4.7	2.6	1.7	1.0	0.5	1.3	0.0	0.0
70°	564.6	68.8	7.0	3.4	2.0	1.4	0.8	0.2	1.0	0.0	0.0
72.5°	399.2	39.9	5.5	2.4	1.7	1.1	0.6	0.0	0.6	0.0	0.0
75°	201.9	21.3	3.5	1.8	1.3	0.8	0.4	0.0	0.1	0.0	0.0
77.5°	43.7	9.9	2.2	1.3	0.9	0.5	0.2	0.0	0.0	0.0	0.0
80°	9.5	4.4	1.4	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	3.5	2.3	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	1.2	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.4	0.1	0.1	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)