

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: P348795

Luminaire Tested: **ARCH-N-PA1-30-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348795
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-PA1-30-830-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2763 lumens
Efficiency: N/A
Efficacy: 89.1 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

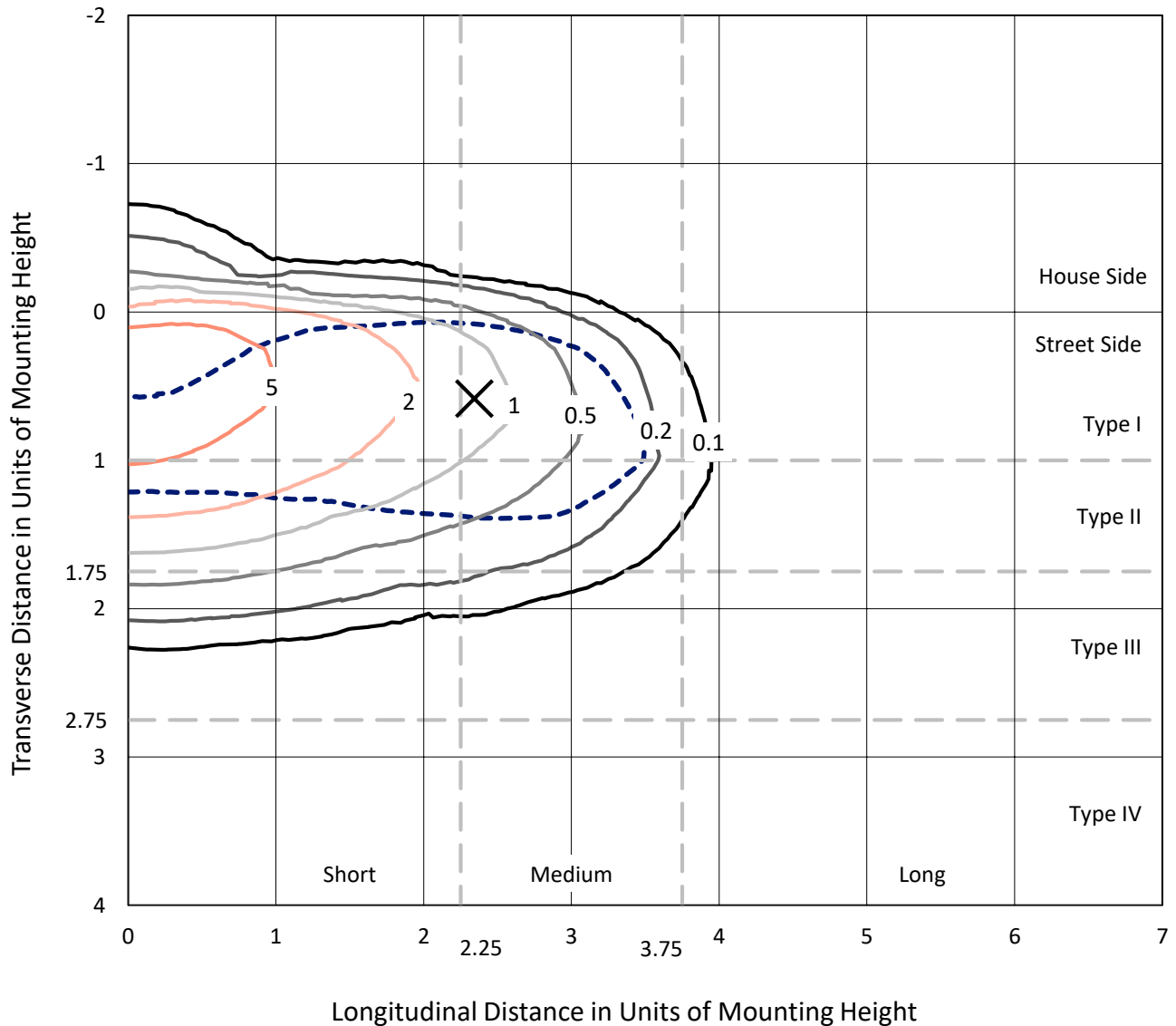
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

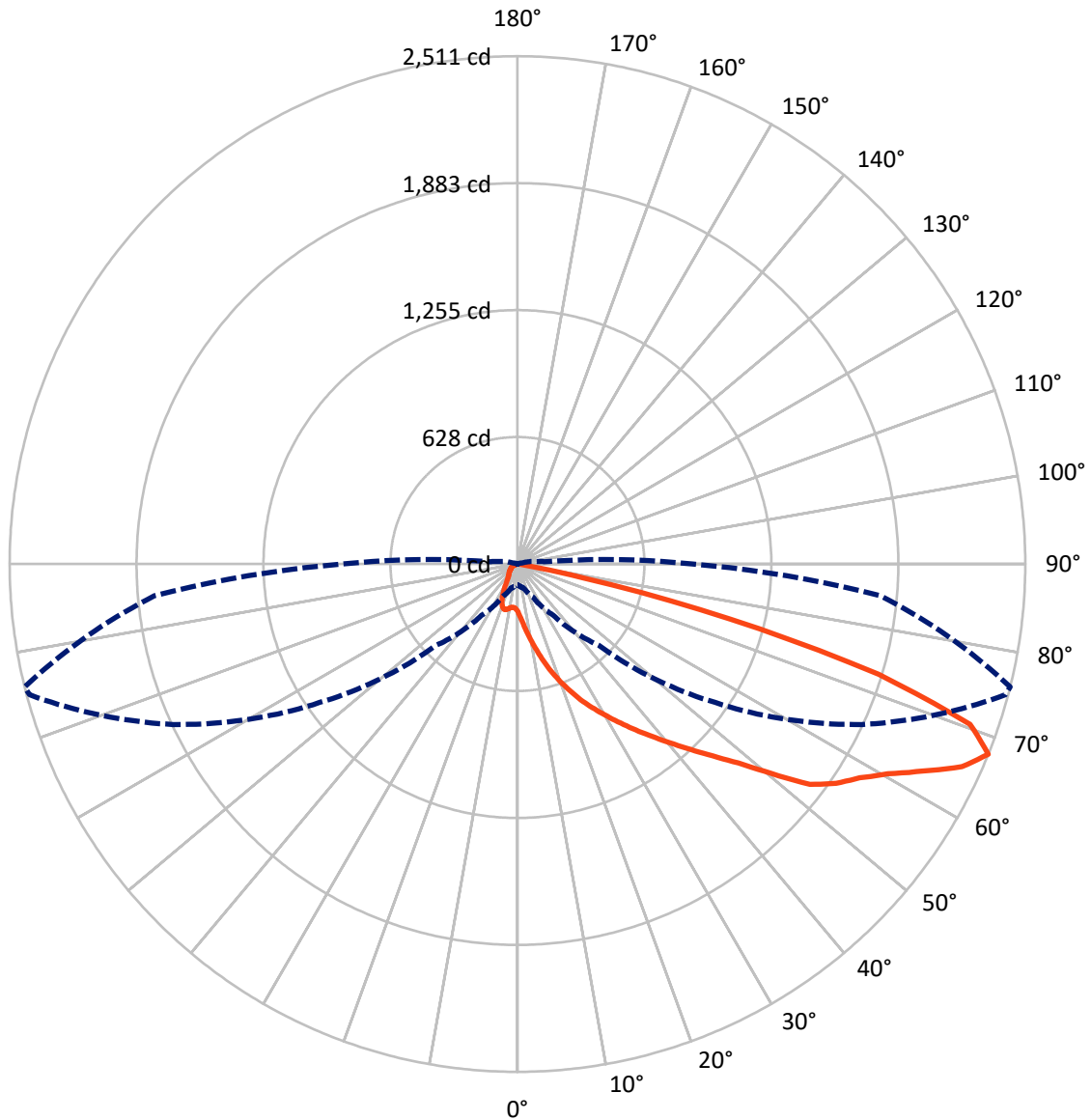
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 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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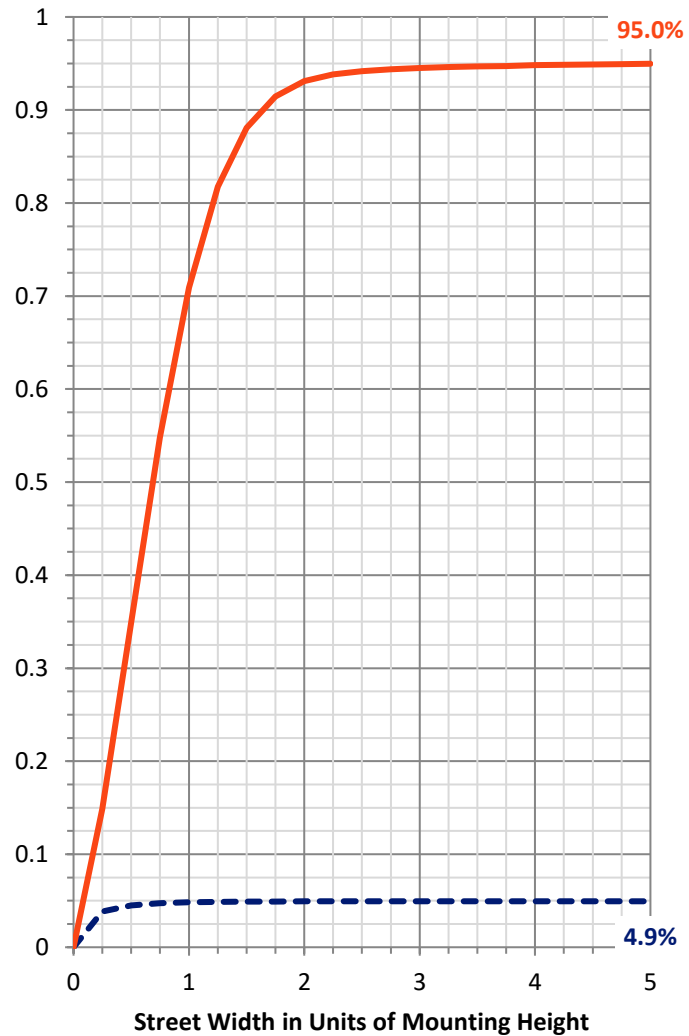
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	137.2	0.0	137.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2625.8	0.0	2625.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	2763.0	0.0	2763.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	1.1
10°-20°	115.5	4.2
20°-30°	235.1	8.5
30°-40°	408.0	14.8
40°-50°	576.5	20.9
50°-60°	653.7	23.7
60°-70°	542.2	19.6
70°-80°	196.4	7.1
80°-90°	6.4	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°	2763.0	100.0
0°-180°	2763.0	100.0



--- HS — SS

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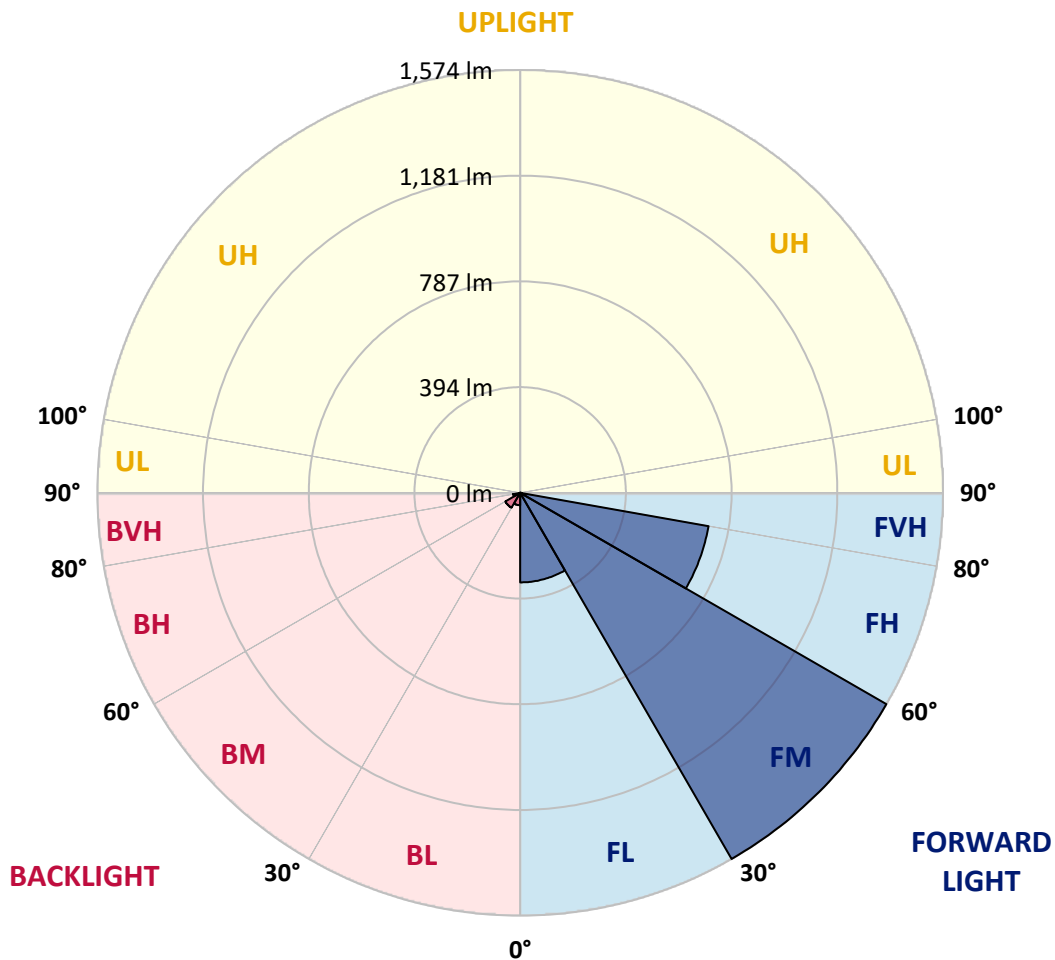
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.5	12.1			
FM	(30°-60°)	1574.0	57.0			
FH	(60°-80°)	712.1	25.8			G1/1800
FVH	(80°-90°)	6.2	0.2			G0/10
BL	(0°-30°)	46.3	1.7	B0/110		
BM	(30°-60°)	64.2	2.3	B0/220		
BH	(60°-80°)	26.5	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-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4
2.5°	349.9	342.0	343.8	338.7	329.5	310.7	294.6	279.3	261.5	260.9	246.2
5°	471.8	465.1	464.3	454.0	437.3	405.2	374.0	338.4	298.7	295.8	264.6
7.5°	582.4	577.1	575.2	563.0	531.8	500.6	459.9	407.6	345.5	340.2	289.5
10°	667.4	664.9	665.4	656.7	630.0	601.0	547.6	480.9	398.7	390.4	319.2
12.5°	731.8	732.4	736.8	731.5	716.6	695.0	638.0	559.0	457.5	446.2	353.3
15°	779.2	782.2	790.2	796.9	795.8	777.1	724.8	638.3	520.0	507.5	391.2
17.5°	809.8	813.2	824.8	839.6	853.1	848.8	808.6	714.8	583.2	568.8	431.7
20°	836.7	840.7	853.1	872.6	897.9	903.4	877.0	789.0	646.2	628.7	473.6
22.5°	894.9	894.8	902.4	913.8	937.9	951.9	935.2	857.9	708.6	690.3	516.3
25°	1000.2	996.2	993.6	984.6	990.0	998.7	989.3	922.3	771.3	752.8	559.7
27.5°	1125.4	1127.8	1106.3	1082.2	1063.6	1054.6	1039.3	982.0	831.6	811.3	602.1
30°	1257.5	1258.2	1232.8	1202.1	1161.0	1127.0	1100.6	1039.0	893.6	871.4	643.2
32.5°	1376.6	1371.9	1346.7	1304.8	1253.0	1214.8	1159.9	1102.7	959.2	937.8	689.0
35°	1471.1	1465.5	1434.9	1396.7	1343.0	1304.5	1238.5	1166.2	1028.2	1007.3	734.9
37.5°	1540.1	1533.5	1502.1	1462.8	1416.5	1394.1	1329.7	1235.4	1103.5	1081.0	783.2
40°	1564.0	1558.4	1538.6	1509.9	1472.6	1467.6	1426.4	1314.9	1185.5	1161.5	837.9
42.5°	1549.8	1544.2	1537.2	1527.5	1512.0	1516.8	1517.7	1405.6	1276.5	1252.9	898.3
45°	1493.1	1488.1	1495.4	1509.6	1528.8	1552.8	1601.0	1503.0	1378.2	1353.0	968.2
47.5°	1409.7	1406.1	1426.1	1461.5	1517.8	1583.9	1677.1	1605.4	1492.4	1469.0	1055.3
50°	1291.0	1290.4	1330.6	1395.2	1481.7	1598.9	1755.8	1721.9	1651.0	1626.4	1176.5
52.5°	1106.3	1107.5	1186.6	1289.8	1418.4	1588.7	1806.4	1871.5	1835.5	1809.9	1281.5
55°	930.4	937.7	993.7	1142.6	1321.3	1551.0	1823.8	1941.4	1937.3	1913.1	1339.8
57.5°	758.1	771.3	825.3	964.4	1179.5	1463.9	1814.3	1971.7	2013.1	1994.6	1416.8
60°	571.4	577.5	639.7	769.7	997.6	1305.1	1744.9	1988.1	2116.7	2103.9	1528.6
62.5°	363.6	378.7	433.9	559.3	776.8	1084.5	1628.0	1987.9	2246.4	2253.4	1672.8
65°	191.5	209.2	238.5	346.6	533.8	838.1	1452.1	1969.2	2405.4	2415.3	1785.5
67.5°	103.3	108.4	123.8	179.9	309.6	567.8	1193.6	1877.2	2497.6	2510.5	1801.2
70°	75.5	78.3	84.1	99.5	155.8	329.8	870.9	1668.6	2378.8	2374.0	1600.4
72.5°	58.0	62.3	66.7	72.9	89.6	176.0	542.3	1306.7	1898.1	1866.1	1196.2
75°	45.8	46.5	52.7	58.2	67.2	100.2	240.8	761.0	1158.5	1082.8	620.3
77.5°	36.6	37.0	40.7	45.5	54.0	65.9	74.6	299.4	369.9	330.0	134.6
80°	21.7	22.9	30.3	35.1	44.8	41.5	27.2	65.0	57.7	52.3	22.6
82.5°	12.1	13.1	17.1	27.7	31.2	19.9	13.6	17.6	13.6	13.2	6.4
85°	0.0	0.6	11.0	17.2	12.7	4.4	5.7	5.8	4.0	3.8	2.5
87.5°	0.0	0.0	3.4	3.3	0.5	0.7	1.3	1.9	1.6	1.6	1.3
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°	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4
2.5°	239.0	232.4	220.1	208.0	197.8	189.5	182.0	178.9	176.5	176.2	174.2
5°	249.6	236.4	212.8	193.5	180.5	171.3	163.4	158.6	154.8	153.4	152.1
7.5°	265.7	245.8	211.9	189.6	174.1	158.6	144.1	128.3	118.5	114.8	112.6
10°	285.4	258.1	215.5	188.5	161.4	128.7	104.6	84.6	76.5	73.8	73.1
12.5°	308.2	273.5	221.8	181.7	134.3	91.4	72.2	65.4	63.6	62.7	62.7
15°	334.5	290.3	226.3	162.1	99.3	69.1	62.5	59.3	57.4	56.3	56.4
17.5°	361.4	306.8	224.1	133.7	73.2	61.5	56.5	53.1	50.5	49.4	49.2
20°	388.5	322.0	212.0	99.5	62.0	55.8	50.2	46.5	43.8	42.7	42.5
22.5°	416.6	335.0	190.7	73.0	55.7	49.5	44.1	40.3	37.8	36.8	36.3
25°	443.9	345.5	160.9	59.1	49.8	43.6	38.4	34.9	32.6	31.6	31.5
27.5°	469.5	352.2	126.4	52.2	44.6	38.3	33.5	30.4	28.5	27.7	27.6
30°	492.5	352.8	93.5	47.1	40.0	33.7	29.3	26.5	24.8	24.1	23.8
32.5°	515.7	347.7	68.0	42.5	35.7	29.7	25.4	23.2	22.0	21.4	21.4
35°	537.7	336.0	53.0	38.5	31.6	25.8	22.4	20.8	20.1	19.5	19.5
37.5°	559.1	319.1	45.0	35.0	27.7	22.5	19.7	18.8	18.2	17.6	17.6
40°	580.9	297.9	40.9	31.7	24.6	20.0	17.6	16.7	16.1	15.6	15.5
42.5°	607.6	273.5	38.3	28.7	21.8	17.7	15.5	14.5	14.0	13.6	13.3
45°	638.6	252.4	36.1	25.7	19.5	15.7	13.4	12.5	11.7	11.1	11.0
47.5°	683.3	237.2	33.2	22.4	17.3	13.7	11.6	10.5	9.4	8.8	8.7
50°	740.3	224.6	29.4	19.5	15.1	11.6	9.7	8.4	7.4	6.8	6.8
52.5°	768.6	208.1	26.0	16.9	12.7	9.8	7.9	6.3	5.8	5.2	5.2
55°	780.0	195.5	22.6	14.4	10.5	8.1	6.2	4.8	4.5	4.1	4.0
57.5°	812.0	191.9	19.7	12.2	8.7	6.4	4.7	3.6	3.4	2.9	2.9
60°	863.4	193.7	17.1	10.4	7.0	5.0	3.5	2.8	2.5	2.1	2.1
62.5°	919.0	191.4	14.4	9.0	5.4	3.6	2.4	2.1	2.1	1.2	1.1
65°	929.7	170.5	12.3	7.4	4.2	2.7	1.6	1.3	1.8	0.2	0.0
67.5°	862.8	132.2	10.7	5.7	3.1	2.1	1.2	0.6	1.6	0.0	0.0
70°	690.0	84.0	8.6	4.1	2.4	1.7	1.0	0.2	1.2	0.0	0.0
72.5°	487.9	48.8	6.8	2.9	2.1	1.3	0.7	0.0	0.7	0.0	0.0
75°	246.7	26.0	4.2	2.2	1.6	1.0	0.5	0.0	0.1	0.0	0.0
77.5°	53.4	12.1	2.7	1.6	1.1	0.6	0.2	0.0	0.0	0.0	0.0
80°	11.6	5.3	1.7	1.0	0.6	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	4.2	2.8	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	1.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.5	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)