

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: P348788

Luminaire Tested: **ARCH-N-PA1-30-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348788
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-PA1-30-827-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2556 lumens
Efficiency: N/A
Efficacy: 82.5 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): 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

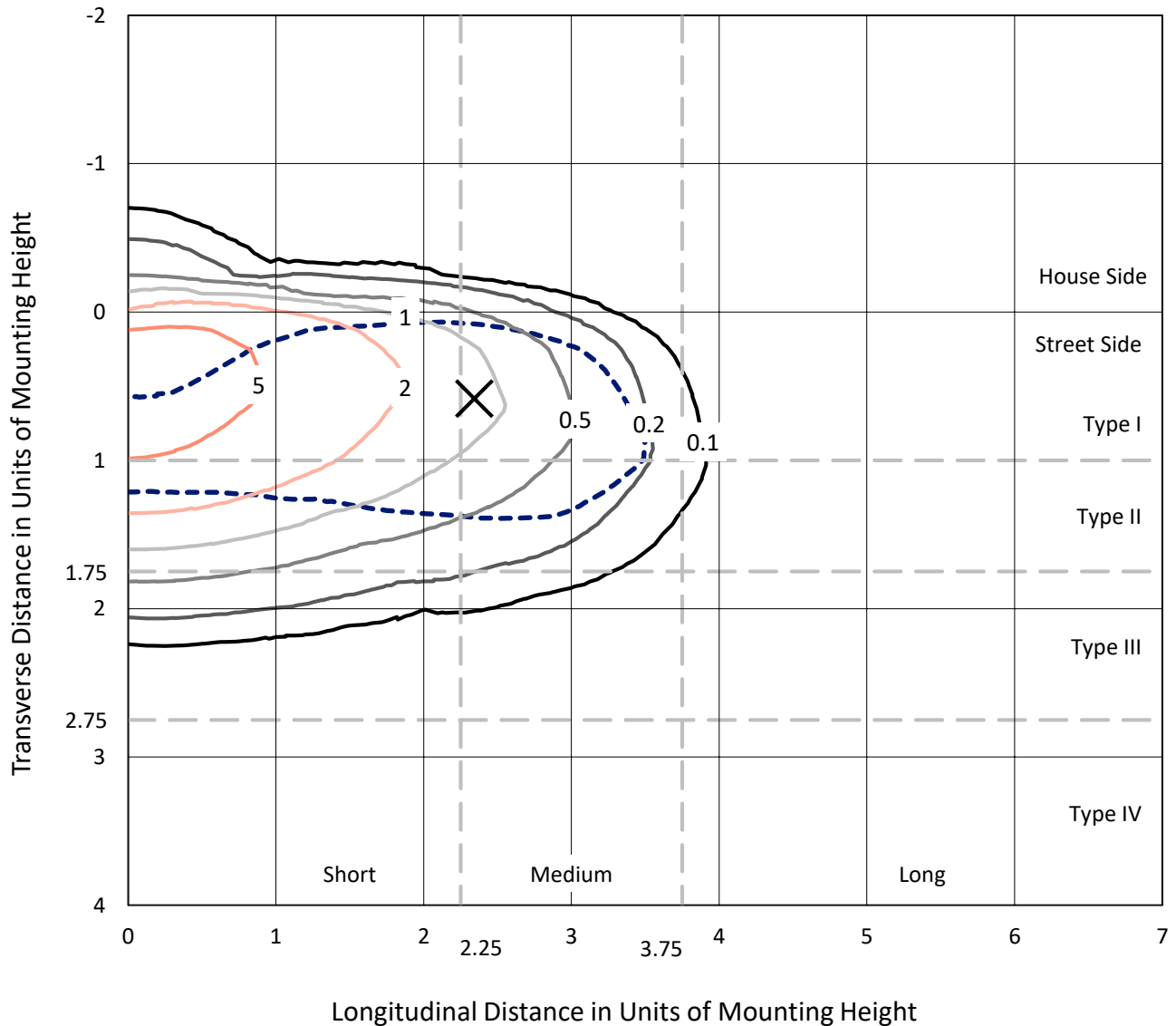


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Iso-Footcandle Lines of Horizontal Illumination

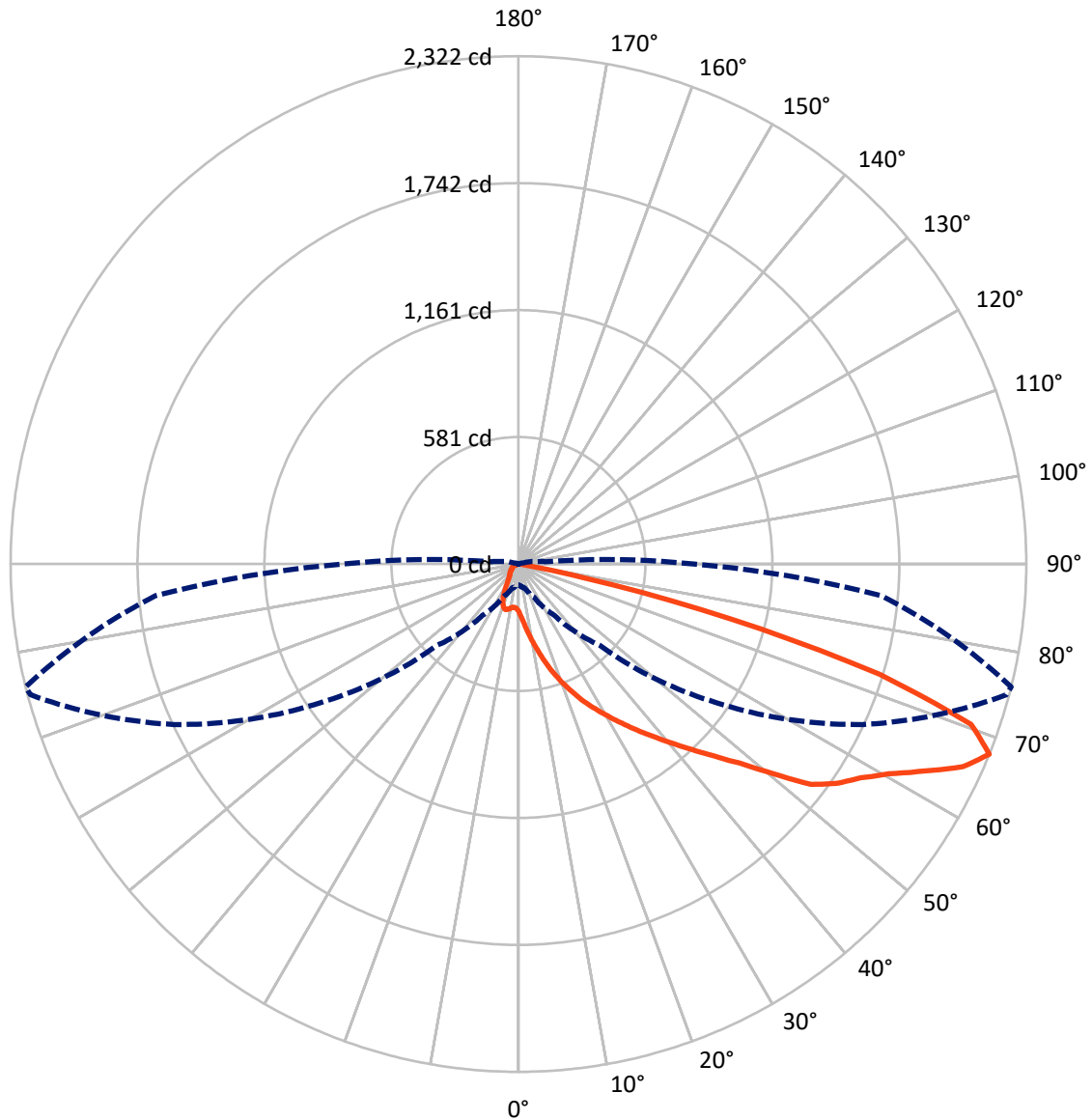
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 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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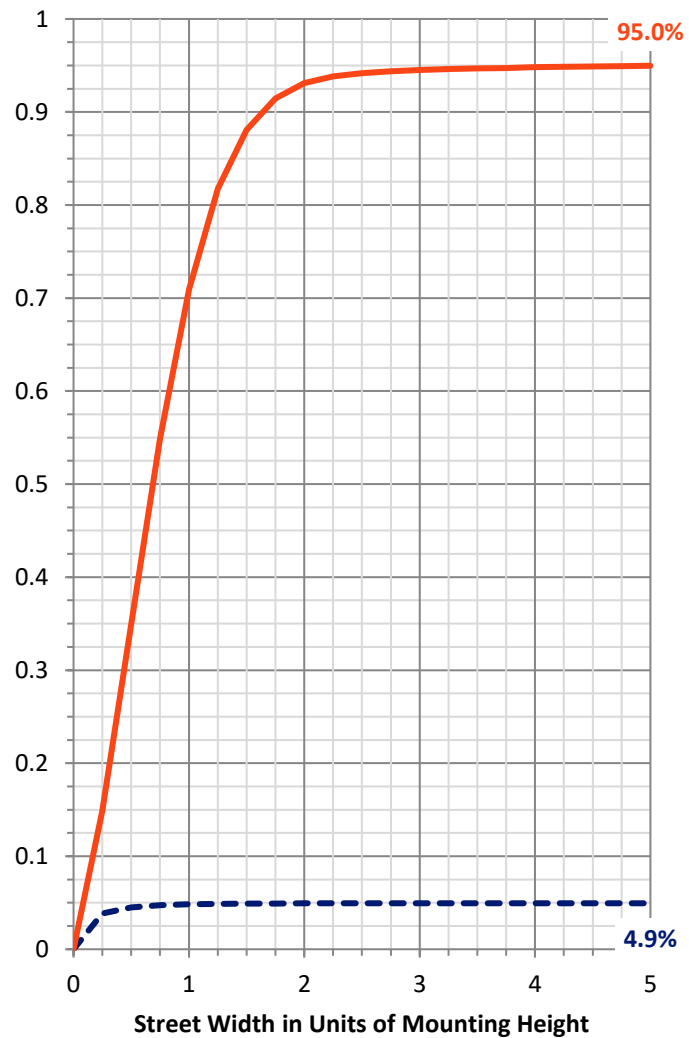
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	126.9	0.0	126.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2429.1	0.0	2429.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	2556.0	0.0	2556.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	1.1
10°-20°	106.9	4.2
20°-30°	217.5	8.5
30°-40°	377.4	14.8
40°-50°	533.3	20.9
50°-60°	604.8	23.7
60°-70°	501.6	19.6
70°-80°	181.7	7.1
80°-90°	5.9	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°	2556.0	100.0
0°-180°	2556.0	100.0



--- HS — SS

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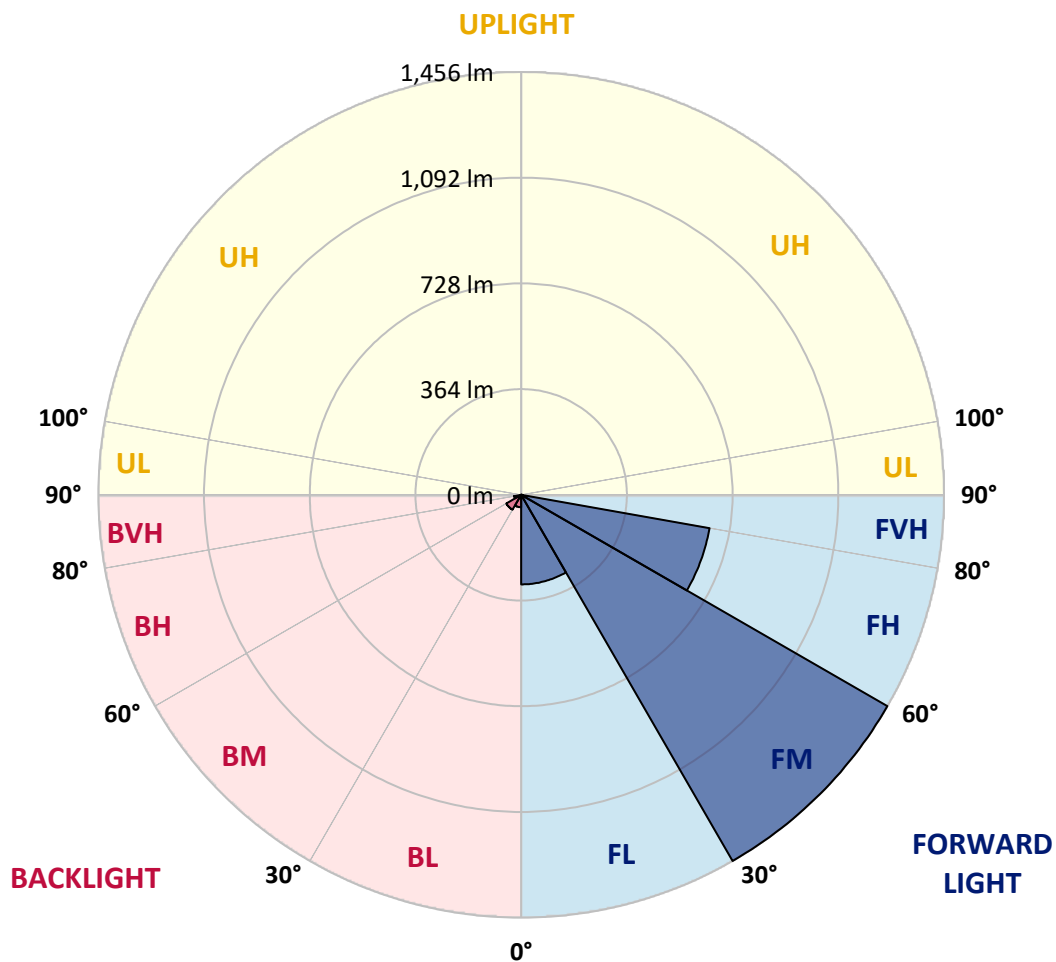
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	308.5	12.1			
FM	(30°-60°)	1456.1	57.0			
FH	(60°-80°)	658.8	25.8			G0/660
FVH	(80°-90°)	5.7	0.2			G0/10
BL	(0°-30°)	42.8	1.7	B0/110		
BM	(30°-60°)	59.4	2.3	B0/220		
BH	(60°-80°)	24.5	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-G0

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	216.8	216.8	216.8	216.8	216.8	216.8	216.8	216.8	216.8	216.8	216.8
2.5°	323.7	316.4	318.1	313.4	304.9	287.4	272.5	258.4	241.9	241.3	227.8
5°	436.4	430.3	429.5	420.0	404.5	374.8	346.0	313.0	276.3	273.6	244.8
7.5°	538.8	533.9	532.1	520.8	492.0	463.1	425.5	377.1	319.6	314.7	267.8
10°	617.4	615.1	615.5	607.5	582.8	555.9	506.6	444.8	368.8	361.2	295.3
12.5°	677.0	677.6	681.6	676.7	662.9	643.0	590.2	517.1	423.2	412.8	326.8
15°	720.8	723.6	731.0	737.2	736.1	718.9	670.5	590.4	481.0	469.5	361.9
17.5°	749.1	752.3	763.0	776.7	789.2	785.2	748.0	661.2	539.5	526.2	399.4
20°	774.0	777.7	789.2	807.3	830.7	835.7	811.3	729.9	597.8	581.6	438.1
22.5°	827.9	827.8	834.8	845.3	867.6	880.6	865.2	793.6	655.5	638.6	477.7
25°	925.3	921.6	919.1	910.9	915.8	923.8	915.2	853.2	713.5	696.4	517.8
27.5°	1041.1	1043.3	1023.4	1001.1	983.9	975.6	961.5	908.4	769.3	750.5	557.0
30°	1163.3	1164.0	1140.4	1112.0	1074.0	1042.6	1018.1	961.1	826.6	806.1	595.0
32.5°	1273.5	1269.1	1245.8	1207.1	1159.2	1123.8	1073.0	1020.1	887.3	867.5	637.4
35°	1360.9	1355.7	1327.4	1292.1	1242.4	1206.7	1145.7	1078.9	951.2	931.8	679.8
37.5°	1424.7	1418.6	1389.5	1353.2	1310.3	1289.6	1230.0	1142.8	1020.8	1000.0	724.5
40°	1446.9	1441.6	1423.3	1396.8	1362.3	1357.6	1319.5	1216.4	1096.7	1074.5	775.1
42.5°	1433.7	1428.5	1422.0	1413.0	1398.7	1403.2	1404.0	1300.3	1180.9	1159.0	831.0
45°	1381.2	1376.6	1383.4	1396.5	1414.3	1436.5	1481.0	1390.4	1275.0	1251.7	895.6
47.5°	1304.1	1300.7	1319.3	1352.0	1404.1	1465.2	1551.5	1485.2	1380.6	1359.0	976.3
50°	1194.3	1193.8	1230.9	1290.6	1370.7	1479.1	1624.3	1592.9	1527.3	1504.5	1088.4
52.5°	1023.4	1024.5	1097.7	1193.2	1312.1	1469.7	1671.1	1731.3	1698.0	1674.3	1185.5
55°	860.7	867.4	919.3	1057.0	1222.3	1434.8	1687.2	1796.0	1792.1	1769.7	1239.5
57.5°	701.3	713.5	763.5	892.2	1091.2	1354.2	1678.4	1824.0	1862.3	1845.1	1310.7
60°	528.6	534.2	591.8	712.1	922.8	1207.3	1614.2	1839.2	1958.1	1946.3	1414.1
62.5°	336.3	350.3	401.4	517.4	718.6	1003.3	1506.0	1839.0	2078.1	2084.6	1547.4
65°	177.2	193.5	220.6	320.6	493.8	775.3	1343.3	1821.7	2225.2	2234.3	1651.7
67.5°	95.5	100.2	114.6	166.4	286.4	525.3	1104.2	1736.6	2310.5	2322.4	1666.3
70°	69.9	72.5	77.8	92.1	144.1	305.1	805.7	1543.6	2200.6	2196.1	1480.5
72.5°	53.6	57.7	61.7	67.4	82.9	162.8	501.6	1208.8	1755.9	1726.3	1106.6
75°	42.3	43.0	48.7	53.9	62.2	92.7	222.8	704.0	1071.7	1001.7	573.9
77.5°	33.8	34.3	37.6	42.1	49.9	60.9	69.0	277.0	342.1	305.3	124.5
80°	20.0	21.2	28.0	32.5	41.4	38.4	25.2	60.1	53.4	48.4	20.9
82.5°	11.2	12.1	15.8	25.6	28.9	18.4	12.5	16.2	12.5	12.2	5.9
85°	0.0	0.6	10.2	15.9	11.8	4.0	5.3	5.4	3.7	3.5	2.4
87.5°	0.0	0.0	3.1	3.0	0.4	0.7	1.2	1.8	1.5	1.5	1.2
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°	216.8	216.8	216.8	216.8	216.8	216.8	216.8	216.8	216.8	216.8	216.8
2.5°	221.1	215.0	203.6	192.4	183.0	175.3	168.3	165.5	163.3	163.0	161.2
5°	230.9	218.7	196.9	179.0	167.0	158.5	151.2	146.7	143.2	141.9	140.7
7.5°	245.8	227.4	196.0	175.4	161.0	146.7	133.3	118.7	109.6	106.2	104.2
10°	264.0	238.8	199.4	174.4	149.3	119.1	96.8	78.3	70.8	68.3	67.6
12.5°	285.1	253.0	205.2	168.1	124.2	84.6	66.7	60.5	58.8	58.0	58.0
15°	309.4	268.6	209.3	150.0	91.8	63.9	57.8	54.9	53.1	52.1	52.2
17.5°	334.3	283.8	207.3	123.6	67.8	56.9	52.3	49.2	46.7	45.7	45.5
20°	359.4	297.9	196.1	92.1	57.3	51.6	46.5	43.0	40.5	39.5	39.3
22.5°	385.4	309.9	176.4	67.5	51.5	45.8	40.8	37.3	34.9	34.0	33.6
25°	410.7	319.6	148.8	54.7	46.0	40.3	35.5	32.3	30.1	29.2	29.1
27.5°	434.3	325.8	116.9	48.3	41.2	35.4	31.0	28.1	26.3	25.6	25.5
30°	455.6	326.4	86.5	43.6	37.0	31.1	27.1	24.5	23.0	22.3	22.1
32.5°	477.1	321.7	62.9	39.3	33.0	27.4	23.5	21.5	20.4	19.8	19.8
35°	497.4	310.8	49.1	35.6	29.2	23.9	20.7	19.3	18.6	18.0	18.0
37.5°	517.2	295.2	41.7	32.4	25.6	20.8	18.3	17.4	16.8	16.2	16.2
40°	537.4	275.6	37.9	29.3	22.7	18.5	16.2	15.5	14.9	14.4	14.3
42.5°	562.1	253.0	35.4	26.5	20.2	16.4	14.3	13.4	13.0	12.5	12.3
45°	590.8	233.5	33.4	23.7	18.0	14.6	12.4	11.5	10.9	10.3	10.2
47.5°	632.1	219.4	30.7	20.7	16.0	12.7	10.8	9.7	8.7	8.2	8.1
50°	684.9	207.8	27.2	18.0	14.0	10.8	9.0	7.7	6.8	6.3	6.3
52.5°	711.1	192.5	24.1	15.7	11.8	9.1	7.3	5.8	5.4	4.8	4.8
55°	721.6	180.9	20.9	13.3	9.7	7.5	5.7	4.5	4.1	3.8	3.7
57.5°	751.2	177.5	18.3	11.3	8.1	5.9	4.4	3.4	3.1	2.7	2.7
60°	798.8	179.2	15.8	9.6	6.5	4.6	3.2	2.6	2.4	1.9	1.9
62.5°	850.2	177.1	13.3	8.3	5.0	3.4	2.2	1.9	1.9	1.1	1.0
65°	860.0	157.7	11.4	6.8	3.9	2.5	1.5	1.2	1.7	0.2	0.0
67.5°	798.2	122.3	9.9	5.3	2.9	1.9	1.1	0.6	1.5	0.0	0.0
70°	638.3	77.7	8.0	3.8	2.2	1.6	0.9	0.2	1.1	0.0	0.0
72.5°	451.3	45.1	6.3	2.7	1.9	1.2	0.7	0.0	0.7	0.0	0.0
75°	228.2	24.1	3.9	2.0	1.5	0.9	0.4	0.0	0.1	0.0	0.0
77.5°	49.4	11.2	2.5	1.5	1.0	0.6	0.2	0.0	0.0	0.0	0.0
80°	10.8	4.9	1.6	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	3.9	2.6	0.8	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	1.3	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	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)