

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: P573103

Luminaire Tested: **ARCH-S-PA2-30-827-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-30-827-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2967 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

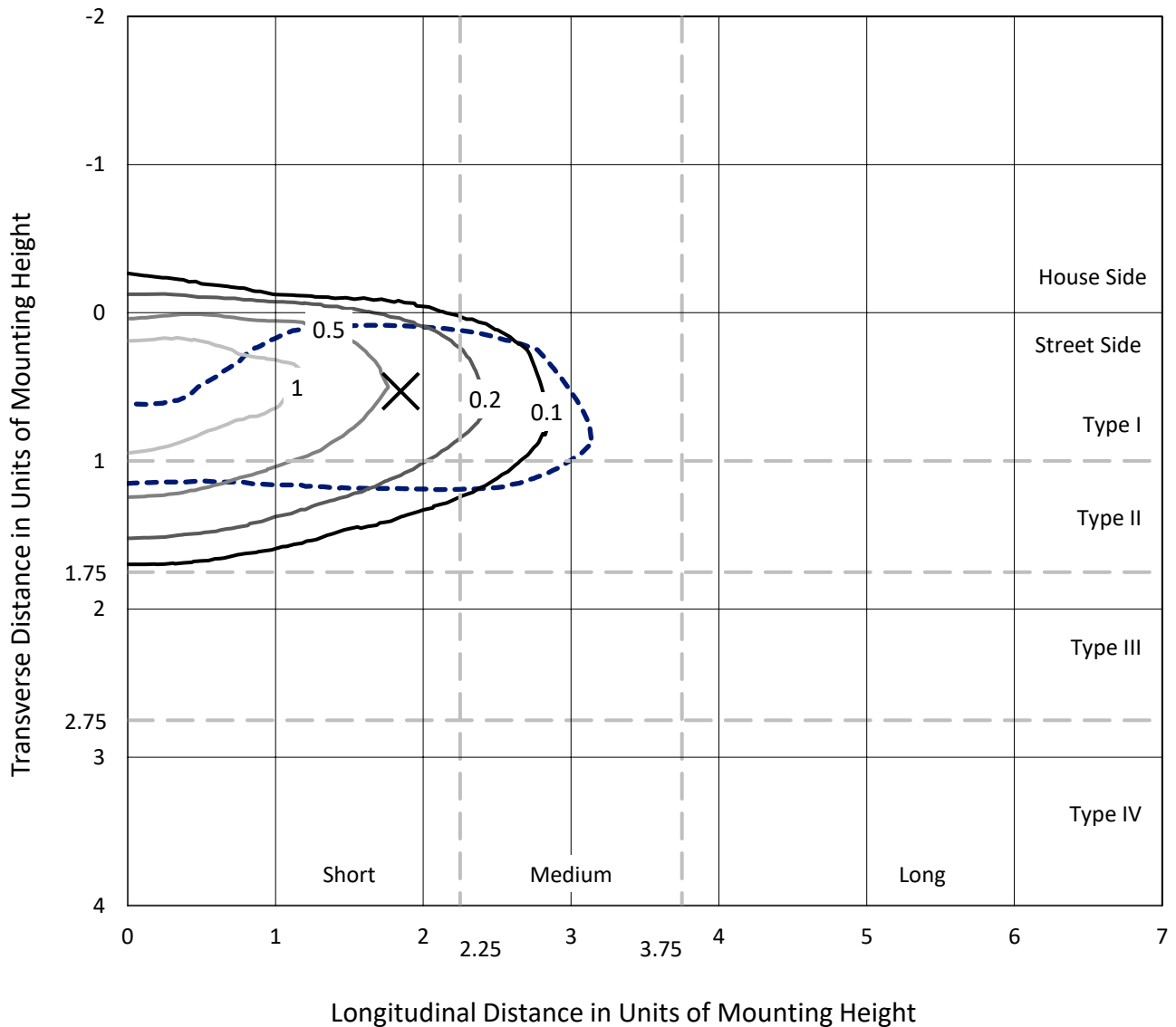
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

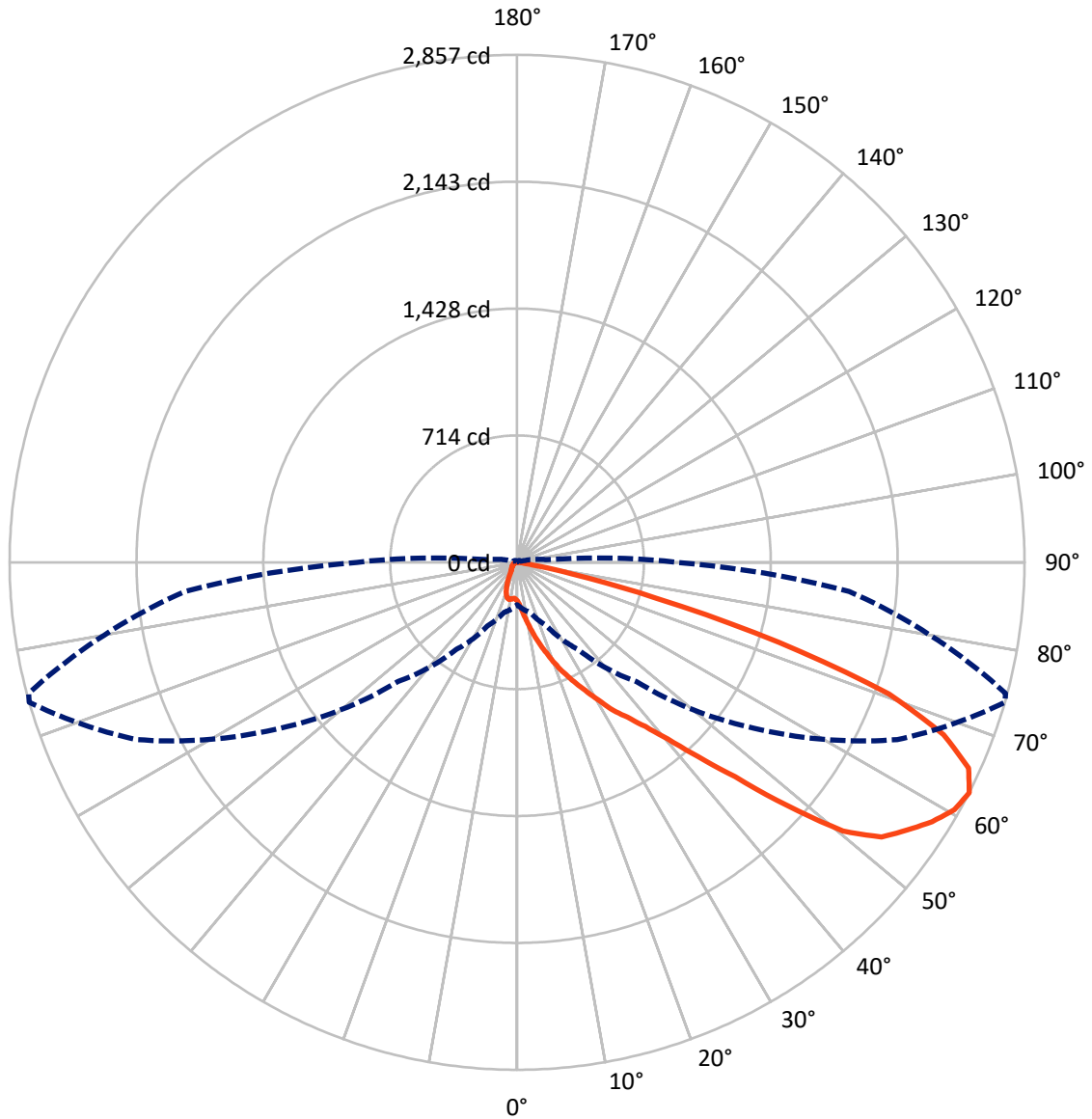
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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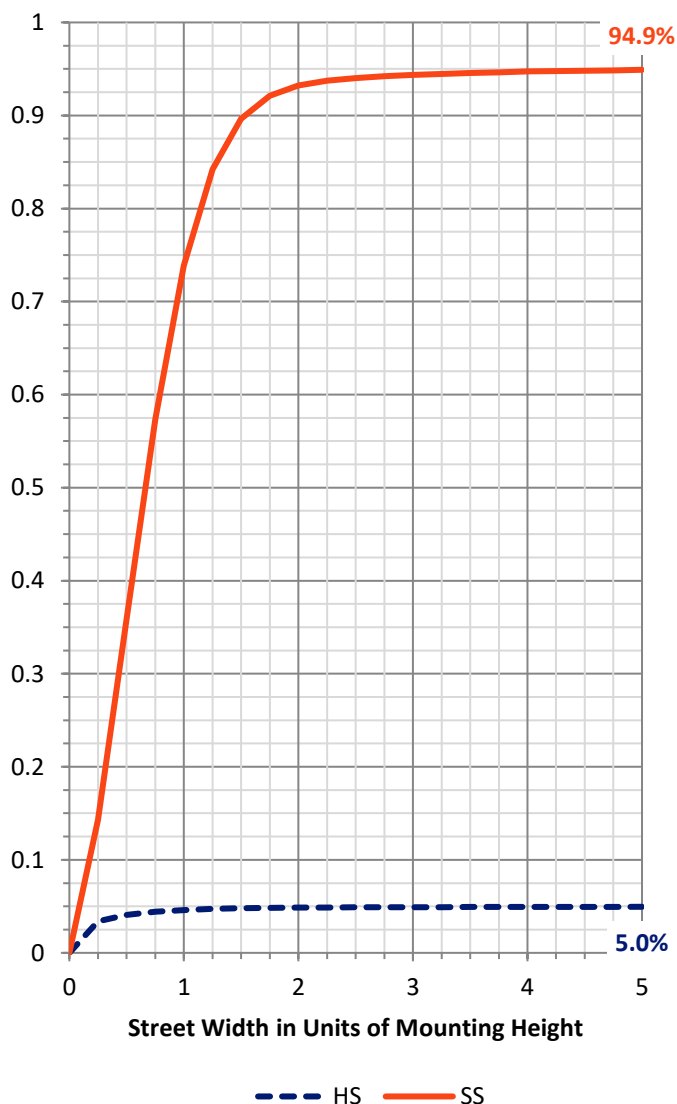
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	148.0	0.0	148.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2819.0	0.0	2819.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	2967.0	0.0	2967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	0.9
10°-20°	114.1	3.8
20°-30°	244.8	8.3
30°-40°	429.4	14.5
40°-50°	665.7	22.4
50°-60°	767.5	25.9
60°-70°	539.2	18.2
70°-80°	168.0	5.7
80°-90°	11.1	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°	2967.0	100.0
0°-180°	2967.0	100.0

Coefficient of Utilization

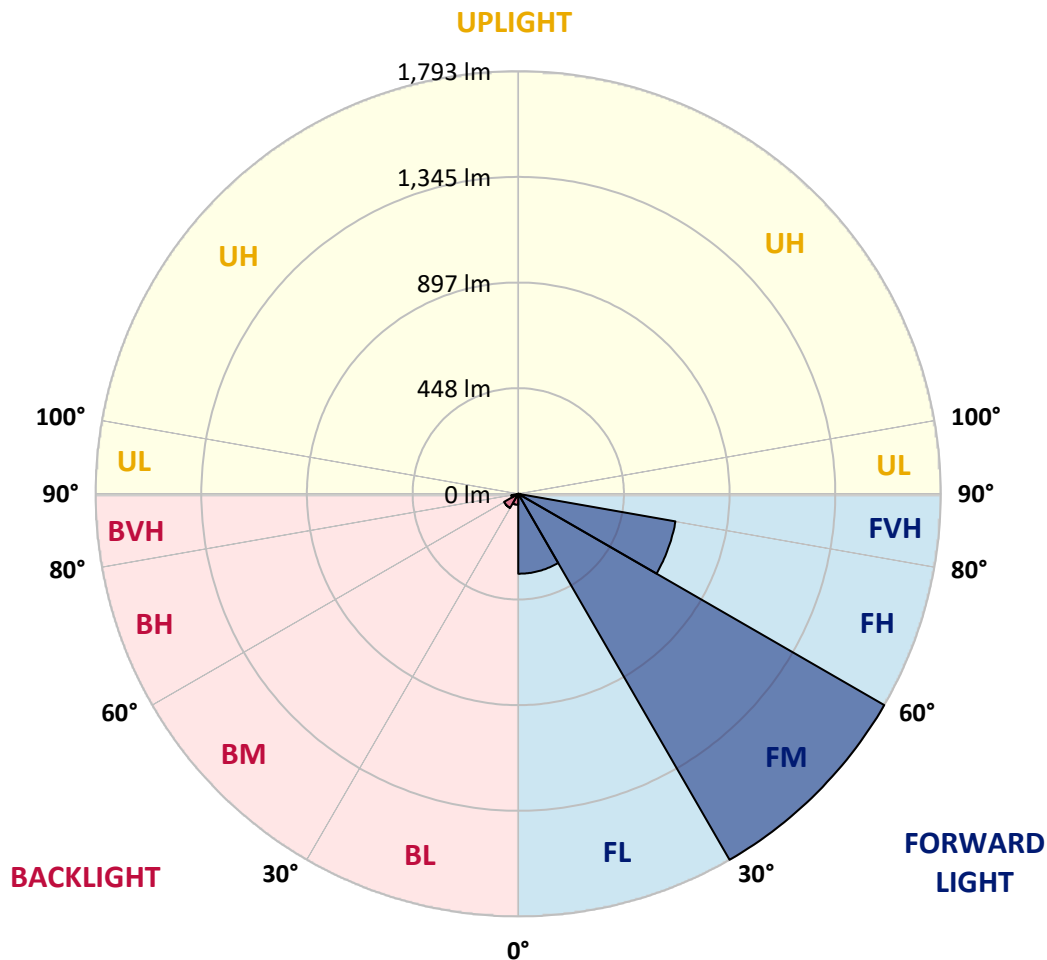


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.1	11.4			
FM (30°-60°)	1793.1	60.4			
FH (60°-80°)	677.2	22.8			G1/1800
FVH (80°-90°)	9.6	0.3			G0/10
BL (0°-30°)	47.0	1.6	B0/110		
BM (30°-60°)	69.5	2.3	B0/220		
BH (60°-80°)	29.9	1.0	B0/110		G0/110
BVH (80°-90°)	1.5	0.1			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2
2.5°	301.8	296.6	290.3	285.1	274.6	267.3	257.9	247.5	236.0	234.9	225.5
5°	422.9	407.2	407.2	393.7	378.0	349.8	323.7	291.3	267.3	265.2	240.2
7.5°	547.2	534.6	527.3	506.4	481.4	450.0	408.3	354.0	310.1	302.8	262.1
10°	663.1	653.7	640.1	623.4	601.5	550.3	498.1	427.1	357.1	351.9	288.2
12.5°	752.9	741.4	735.1	727.8	699.6	658.9	591.0	501.2	417.7	406.2	314.3
15°	820.7	815.5	809.3	809.3	794.6	755.0	685.0	580.6	476.2	462.6	347.7
17.5°	875.0	868.8	867.7	874.0	869.8	841.6	775.8	656.8	536.7	526.3	382.2
20°	935.6	927.2	927.2	932.5	931.4	915.8	858.3	744.5	607.7	588.9	421.9
22.5°	1021.2	1016.0	1011.8	1003.5	997.2	982.6	932.5	830.1	675.6	657.8	462.6
25°	1136.1	1129.8	1111.0	1096.4	1069.3	1047.3	1004.5	906.4	744.5	724.7	502.3
27.5°	1247.8	1235.3	1217.5	1198.7	1168.5	1130.9	1077.6	978.4	816.6	795.7	543.0
30°	1365.8	1356.4	1334.5	1304.2	1266.6	1224.8	1161.1	1065.1	899.1	876.1	586.8
32.5°	1459.8	1445.2	1425.3	1396.1	1357.5	1328.2	1259.3	1160.1	994.1	963.8	632.8
35°	1535.0	1523.5	1497.4	1469.2	1440.0	1431.6	1356.4	1237.4	1070.3	1042.1	681.9
37.5°	1583.0	1571.5	1549.6	1521.4	1509.9	1524.5	1475.5	1342.8	1172.6	1137.1	738.2
40°	1620.6	1607.0	1589.3	1576.7	1572.6	1613.3	1608.1	1479.6	1307.3	1286.5	815.5
42.5°	1647.7	1634.2	1622.7	1621.6	1648.8	1728.2	1786.6	1670.7	1495.3	1452.5	914.7
45°	1613.3	1601.8	1608.1	1644.6	1710.4	1835.7	2002.8	1941.2	1721.9	1691.6	1073.4
47.5°	1517.2	1509.9	1538.1	1604.9	1727.1	1901.5	2211.6	2237.7	2045.6	1999.6	1279.1
50°	1366.9	1365.8	1410.7	1501.6	1674.9	1926.5	2317.1	2522.8	2377.6	2330.7	1446.2
52.5°	1163.2	1159.1	1224.8	1351.2	1551.7	1879.6	2336.9	2636.6	2569.8	2514.4	1551.7
55°	932.5	923.1	1001.4	1140.3	1370.0	1742.8	2283.7	2661.7	2661.7	2611.5	1630.0
57.5°	655.8	670.4	735.1	902.2	1145.5	1538.1	2152.1	2638.7	2754.6	2711.8	1735.5
60°	413.5	419.8	490.8	625.5	868.8	1264.5	1917.2	2539.5	2828.7	2803.7	1820.0
62.5°	238.1	257.9	293.4	395.8	599.4	950.2	1626.9	2360.9	2856.9	2846.5	1875.4
65°	145.1	147.2	163.9	223.5	368.6	648.4	1302.1	2112.4	2793.2	2802.6	1864.9
67.5°	108.6	108.6	113.8	141.0	209.9	412.5	960.7	1810.6	2589.6	2619.9	1766.8
70°	94.0	94.0	95.0	103.4	129.5	244.3	634.9	1459.8	2220.0	2216.8	1459.8
72.5°	74.1	77.3	83.5	87.7	98.2	143.1	371.7	1020.2	1542.3	1578.8	939.8
75°	59.5	60.6	68.9	76.2	82.5	97.1	175.4	567.0	809.3	809.3	413.5
77.5°	45.9	48.0	53.3	60.6	68.9	68.9	73.1	219.3	313.3	302.8	122.2
80°	29.2	30.3	38.6	48.0	57.4	49.1	39.7	73.1	85.6	82.5	33.4
82.5°	17.8	18.8	25.1	38.6	38.6	27.1	25.1	30.3	27.1	25.1	13.6
85°	5.2	6.3	17.8	25.1	21.9	10.4	12.5	13.6	12.5	11.5	7.3
87.5°	1.0	1.0	5.2	6.3	5.2	5.2	4.2	5.2	5.2	5.2	3.1
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°	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2
2.5°	220.3	216.1	207.8	201.5	196.3	191.1	186.9	185.9	183.8	183.8	182.7
5°	229.7	220.3	204.7	194.2	185.9	178.6	172.3	166.0	163.9	161.9	162.9
7.5°	244.3	229.7	207.8	192.1	177.5	160.8	147.2	135.7	127.4	125.3	122.2
10°	263.1	241.2	213.0	188.0	160.8	131.6	112.8	101.3	97.1	91.9	92.9
12.5°	281.9	254.8	217.2	176.5	132.6	103.4	87.7	80.4	77.3	76.2	77.3
15°	303.9	269.4	215.1	155.6	106.5	83.5	74.1	71.0	68.9	68.9	67.9
17.5°	325.8	281.9	207.8	128.4	85.6	71.0	66.8	63.7	61.6	60.6	60.6
20°	349.8	293.4	191.1	102.3	71.0	64.7	60.6	56.4	54.3	54.3	54.3
22.5°	374.9	301.8	169.2	81.4	63.7	57.4	53.3	50.1	48.0	48.0	48.0
25°	396.8	306.0	143.1	67.9	58.5	52.2	48.0	44.9	43.9	42.8	42.8
27.5°	417.7	304.9	115.9	59.5	52.2	47.0	42.8	40.7	38.6	38.6	38.6
30°	438.6	298.6	91.9	54.3	48.0	41.8	38.6	36.5	35.5	34.5	34.5
32.5°	456.3	288.2	72.0	50.1	43.9	37.6	34.5	32.4	32.4	31.3	31.3
35°	474.1	272.5	60.6	47.0	39.7	34.5	31.3	30.3	29.2	29.2	29.2
37.5°	492.9	252.7	53.3	42.8	35.5	31.3	29.2	28.2	27.1	26.1	26.1
40°	515.8	232.9	50.1	39.7	32.4	28.2	26.1	25.1	24.0	24.0	24.0
42.5°	552.4	216.1	47.0	35.5	29.2	26.1	24.0	21.9	21.9	20.9	20.9
45°	621.3	209.9	43.9	32.4	27.1	23.0	21.9	19.8	18.8	18.8	18.8
47.5°	711.1	210.9	40.7	29.2	25.1	20.9	19.8	18.8	16.7	16.7	16.7
50°	785.2	205.7	37.6	27.1	21.9	19.8	17.8	16.7	15.7	15.7	15.7
52.5°	814.5	196.3	34.5	25.1	20.9	17.8	16.7	15.7	14.6	14.6	14.6
55°	843.7	192.1	31.3	21.9	18.8	17.8	15.7	14.6	13.6	12.5	12.5
57.5°	897.0	194.2	28.2	20.9	17.8	16.7	14.6	12.5	10.4	9.4	9.4
60°	925.2	186.9	26.1	18.8	16.7	15.7	12.5	9.4	7.3	6.3	6.3
62.5°	901.1	166.0	24.0	17.8	15.7	13.6	9.4	7.3	5.2	3.1	3.1
65°	834.3	136.8	21.9	16.7	13.6	10.4	8.4	5.2	3.1	2.1	2.1
67.5°	749.7	107.6	19.8	15.7	12.5	9.4	7.3	4.2	2.1	1.0	1.0
70°	605.6	77.3	18.8	14.6	11.5	8.4	6.3	4.2	2.1	1.0	1.0
72.5°	390.5	50.1	16.7	13.6	10.4	8.4	5.2	3.1	2.1	1.0	1.0
75°	180.6	33.4	15.7	12.5	10.4	7.3	5.2	4.2	2.1	1.0	1.0
77.5°	53.3	24.0	14.6	11.5	9.4	7.3	5.2	4.2	2.1	1.0	1.0
80°	21.9	16.7	11.5	10.4	9.4	7.3	5.2	4.2	2.1	1.0	1.0
82.5°	10.4	7.3	5.2	4.2	5.2	5.2	4.2	4.2	2.1	1.0	1.0
85°	5.2	3.1	2.1	2.1	2.1	1.0	1.0	2.1	2.1	1.0	1.0
87.5°	3.1	2.1	2.1	2.1	1.0	1.0	1.0	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)