

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: P348751

Luminaire Tested: **ARCH-N-PA1-19-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348751
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-PA1-19-727-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1997 lumens
Efficiency: N/A
Efficacy: 105.1 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 - G0

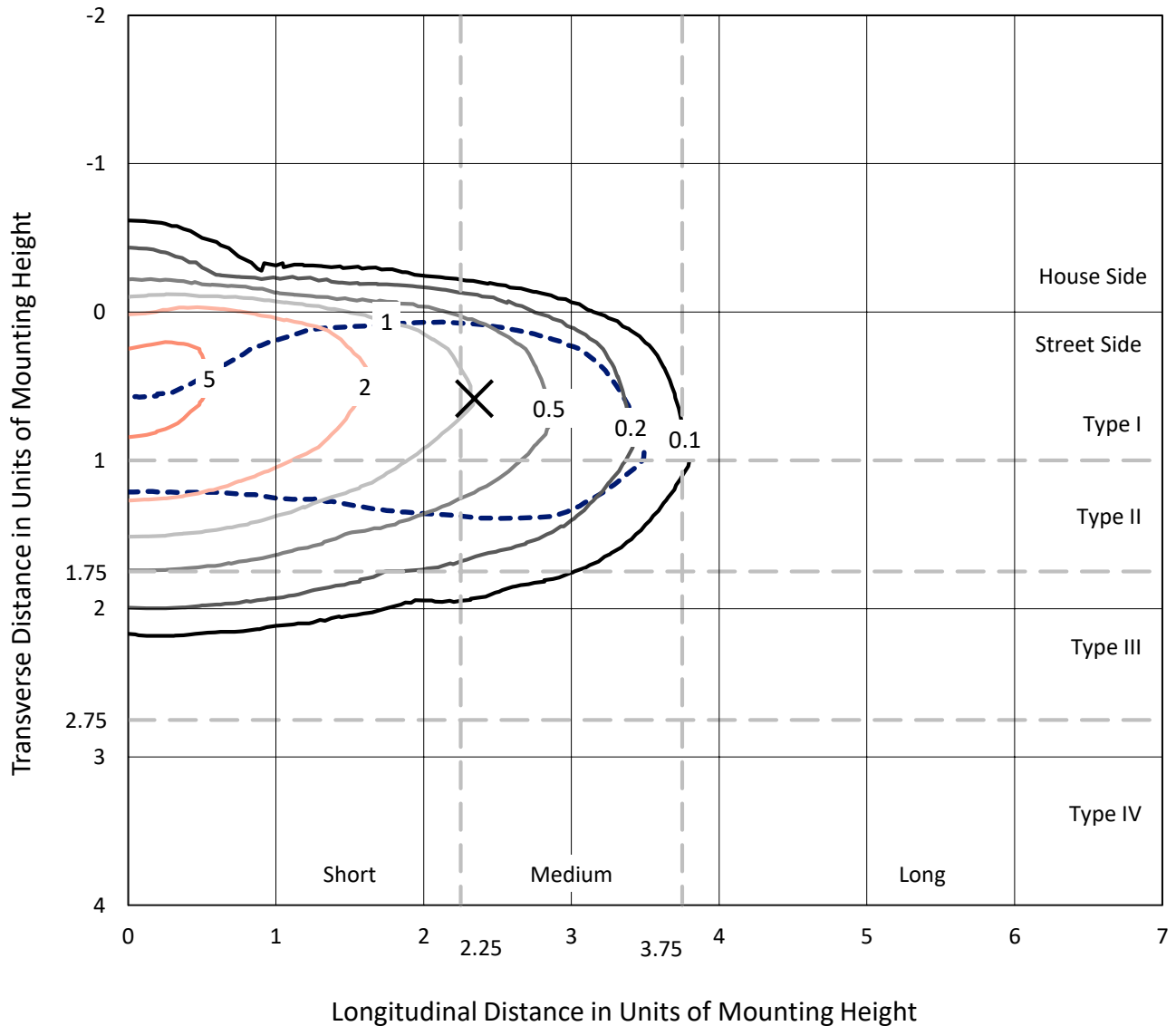
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

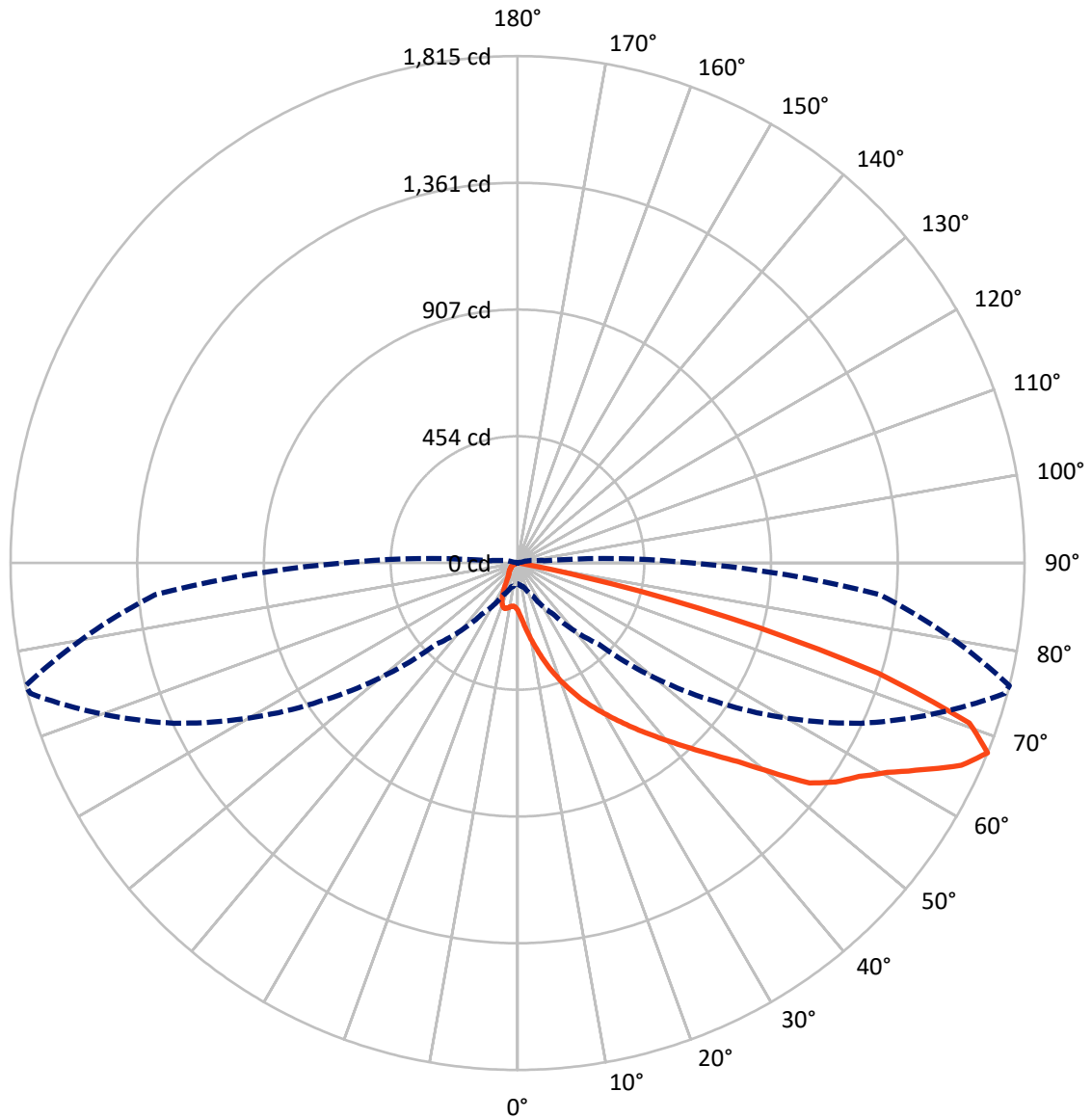
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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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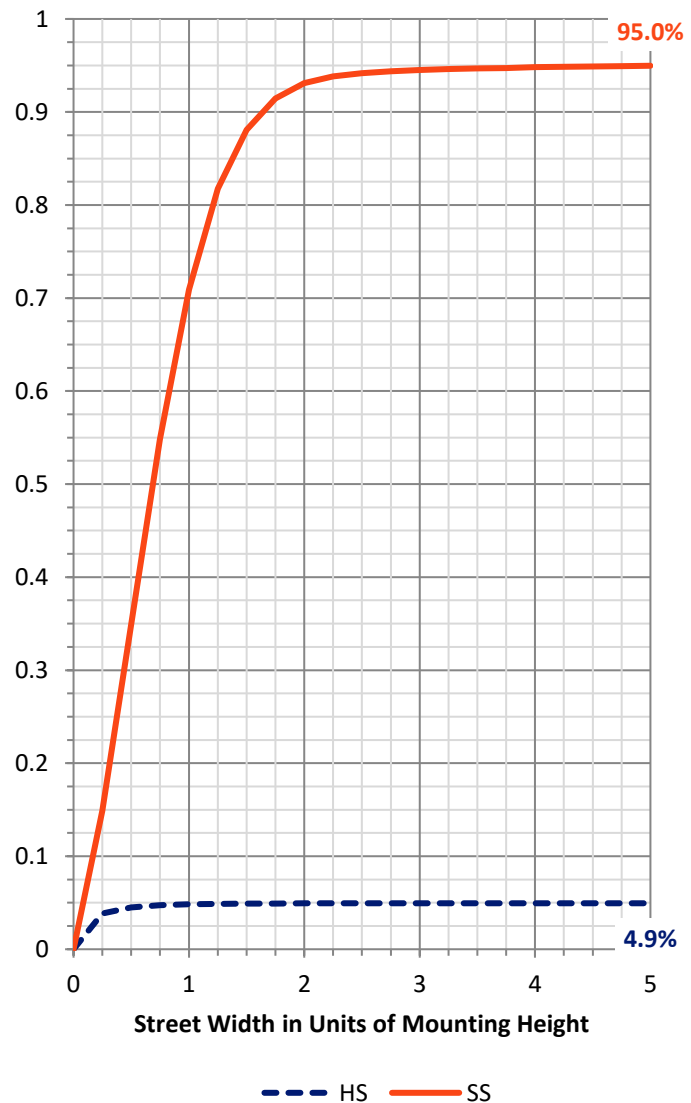
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	99.2	0.0	99.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	1897.8	0.0	1897.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	1997.0	0.0	1997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.1	1.1
10°-20°	83.5	4.2
20°-30°	169.9	8.5
30°-40°	294.9	14.8
40°-50°	416.7	20.9
50°-60°	472.5	23.7
60°-70°	391.9	19.6
70°-80°	142.0	7.1
80°-90°	4.6	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°	1997.0	100.0
0°-180°	1997.0	100.0

Coefficient of Utilization



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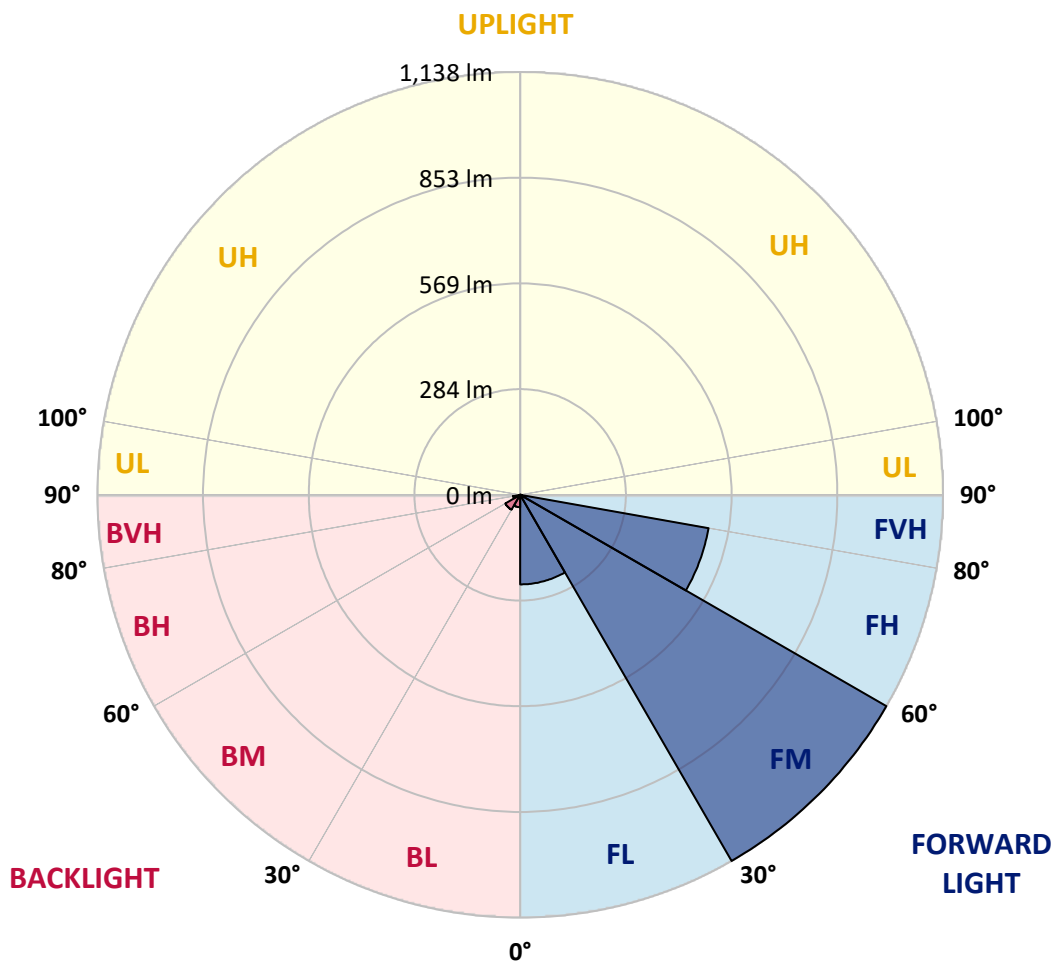
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	241.0	12.1			
FM	(30°-60°)	1137.7	57.0			
FH	(60°-80°)	514.7	25.8			G0/660
FVH	(80°-90°)	4.5	0.2			G0/10
BL	(0°-30°)	33.4	1.7	B0/110		
BM	(30°-60°)	46.4	2.3	B0/220		
BH	(60°-80°)	19.2	1.0	B0/110		G0/110
BVH	(80°-90°)	0.1	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°	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4
2.5°	252.9	247.2	248.5	244.8	238.2	224.5	212.9	201.9	189.0	188.6	178.0
5°	341.0	336.2	335.6	328.1	316.1	292.9	270.3	244.6	215.9	213.8	191.3
7.5°	421.0	417.1	415.7	406.9	384.4	361.8	332.4	294.6	249.7	245.9	209.2
10°	482.4	480.6	480.9	474.6	455.4	434.4	395.8	347.6	288.1	282.2	230.7
12.5°	528.9	529.4	532.5	528.7	517.9	502.3	461.1	404.0	330.7	322.5	255.3
15°	563.2	565.3	571.1	575.9	575.1	561.7	523.9	461.3	375.8	366.8	282.7
17.5°	585.3	587.7	596.1	606.8	616.6	613.5	584.4	516.6	421.5	411.1	312.0
20°	604.7	607.6	616.6	630.7	649.0	652.9	633.9	570.2	467.1	454.4	342.3
22.5°	646.8	646.7	652.2	660.5	677.9	688.0	676.0	620.0	512.1	498.9	373.2
25°	722.9	720.1	718.1	711.7	715.5	721.8	715.1	666.6	557.5	544.1	404.5
27.5°	813.4	815.2	799.6	782.2	768.7	762.2	751.2	709.7	601.0	586.3	435.1
30°	908.9	909.4	891.0	868.8	839.1	814.6	795.5	750.9	645.9	629.8	464.9
32.5°	995.0	991.6	973.4	943.1	905.6	878.0	838.4	797.0	693.3	677.8	498.0
35°	1063.2	1059.2	1037.1	1009.5	970.7	942.8	895.1	842.9	743.2	728.0	531.1
37.5°	1113.1	1108.4	1085.6	1057.3	1023.8	1007.6	961.0	892.9	797.6	781.3	566.0
40°	1130.4	1126.3	1112.1	1091.3	1064.4	1060.7	1030.9	950.4	856.8	839.5	605.6
42.5°	1120.1	1116.1	1111.0	1104.0	1092.8	1096.3	1096.9	1015.9	922.6	905.6	649.3
45°	1079.2	1075.6	1080.8	1091.1	1105.0	1122.3	1157.1	1086.3	996.1	977.9	699.8
47.5°	1018.9	1016.2	1030.8	1056.3	1097.0	1144.8	1212.2	1160.4	1078.6	1061.7	762.8
50°	933.1	932.7	961.7	1008.4	1070.9	1155.6	1269.0	1244.5	1193.3	1175.5	850.3
52.5°	799.6	800.5	857.6	932.2	1025.2	1148.3	1305.6	1352.7	1326.6	1308.2	926.2
55°	672.5	677.7	718.2	825.8	955.0	1121.0	1318.2	1403.2	1400.2	1382.7	968.4
57.5°	547.9	557.5	596.5	697.0	852.5	1058.1	1311.3	1425.1	1455.0	1441.6	1024.0
60°	413.0	417.4	462.4	556.3	721.0	943.3	1261.2	1437.0	1529.9	1520.6	1104.8
62.5°	262.8	273.7	313.6	404.3	561.4	783.8	1176.6	1436.8	1623.6	1628.7	1209.0
65°	138.4	151.2	172.4	250.5	385.8	605.8	1049.5	1423.3	1738.6	1745.7	1290.5
67.5°	74.6	78.3	89.5	130.0	223.7	410.4	862.7	1356.8	1805.2	1814.5	1301.9
70°	54.6	56.6	60.8	71.9	112.6	238.4	629.5	1206.0	1719.3	1715.8	1156.7
72.5°	41.9	45.1	48.2	52.7	64.8	127.2	391.9	944.4	1371.9	1348.8	864.6
75°	33.1	33.6	38.1	42.1	48.6	72.5	174.0	550.0	837.3	782.6	448.4
77.5°	26.4	26.8	29.4	32.9	39.0	47.6	53.9	216.4	267.3	238.5	97.3
80°	15.7	16.5	21.9	25.4	32.4	30.0	19.7	47.0	41.7	37.8	16.4
82.5°	8.8	9.5	12.3	20.0	22.6	14.4	9.8	12.7	9.8	9.5	4.6
85°	0.0	0.4	8.0	12.4	9.2	3.2	4.1	4.2	2.9	2.7	1.8
87.5°	0.0	0.0	2.5	2.4	0.4	0.5	1.0	1.4	1.1	1.1	1.0
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°	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4
2.5°	172.7	168.0	159.1	150.3	143.0	136.9	131.5	129.3	127.6	127.3	125.9
5°	180.4	170.9	153.8	139.8	130.5	123.8	118.1	114.6	111.9	110.9	109.9
7.5°	192.1	177.6	153.1	137.0	125.8	114.6	104.1	92.8	85.7	83.0	81.4
10°	206.2	186.6	155.8	136.2	116.6	93.0	75.6	61.2	55.3	53.4	52.9
12.5°	222.8	197.7	160.3	131.3	97.0	66.1	52.2	47.3	45.9	45.3	45.3
15°	241.8	209.8	163.5	117.2	71.8	50.0	45.2	42.9	41.5	40.7	40.8
17.5°	261.2	221.7	162.0	96.6	52.9	44.5	40.9	38.4	36.5	35.7	35.5
20°	280.8	232.8	153.2	71.9	44.8	40.3	36.3	33.6	31.7	30.9	30.7
22.5°	301.1	242.1	137.8	52.8	40.3	35.8	31.9	29.1	27.3	26.6	26.3
25°	320.9	249.7	116.3	42.7	36.0	31.5	27.7	25.2	23.5	22.8	22.8
27.5°	339.3	254.5	91.4	37.7	32.2	27.7	24.2	22.0	20.6	20.0	20.0
30°	356.0	255.0	67.6	34.0	28.9	24.3	21.2	19.2	17.9	17.4	17.2
32.5°	372.8	251.3	49.2	30.7	25.8	21.4	18.4	16.8	15.9	15.5	15.5
35°	388.6	242.8	38.3	27.8	22.8	18.6	16.2	15.1	14.5	14.1	14.1
37.5°	404.1	230.7	32.6	25.3	20.0	16.3	14.3	13.6	13.1	12.7	12.7
40°	419.8	215.3	29.6	22.9	17.8	14.4	12.7	12.1	11.6	11.3	11.2
42.5°	439.2	197.7	27.7	20.7	15.8	12.8	11.2	10.5	10.2	9.8	9.6
45°	461.6	182.4	26.1	18.6	14.1	11.4	9.7	9.0	8.5	8.1	8.0
47.5°	493.9	171.4	24.0	16.2	12.5	9.9	8.4	7.6	6.8	6.4	6.3
50°	535.1	162.3	21.3	14.1	10.9	8.4	7.0	6.0	5.3	4.9	4.9
52.5°	555.5	150.4	18.8	12.3	9.2	7.1	5.7	4.6	4.2	3.8	3.8
55°	563.8	141.3	16.4	10.4	7.6	5.9	4.5	3.5	3.2	3.0	2.9
57.5°	586.9	138.7	14.3	8.8	6.3	4.6	3.4	2.6	2.5	2.1	2.1
60°	624.1	140.0	12.3	7.5	5.1	3.6	2.5	2.0	1.8	1.5	1.5
62.5°	664.2	138.3	10.4	6.5	3.9	2.6	1.8	1.5	1.5	0.9	0.8
65°	671.9	123.2	8.9	5.3	3.1	1.9	1.1	1.0	1.3	0.2	0.0
67.5°	623.6	95.6	7.7	4.1	2.3	1.5	0.9	0.4	1.1	0.0	0.0
70°	498.7	60.7	6.2	3.0	1.8	1.2	0.7	0.2	0.9	0.0	0.0
72.5°	352.6	35.3	4.9	2.1	1.5	1.0	0.5	0.0	0.5	0.0	0.0
75°	178.3	18.8	3.1	1.6	1.1	0.7	0.4	0.0	0.1	0.0	0.0
77.5°	38.6	8.8	1.9	1.1	0.8	0.4	0.2	0.0	0.0	0.0	0.0
80°	8.4	3.9	1.2	0.7	0.4	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	3.1	2.0	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.7	1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)