

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: P572959

Luminaire Tested: **ARCH-S-PA2-20-722-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572959
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-PA2-20-722-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 220mA 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: 2088 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

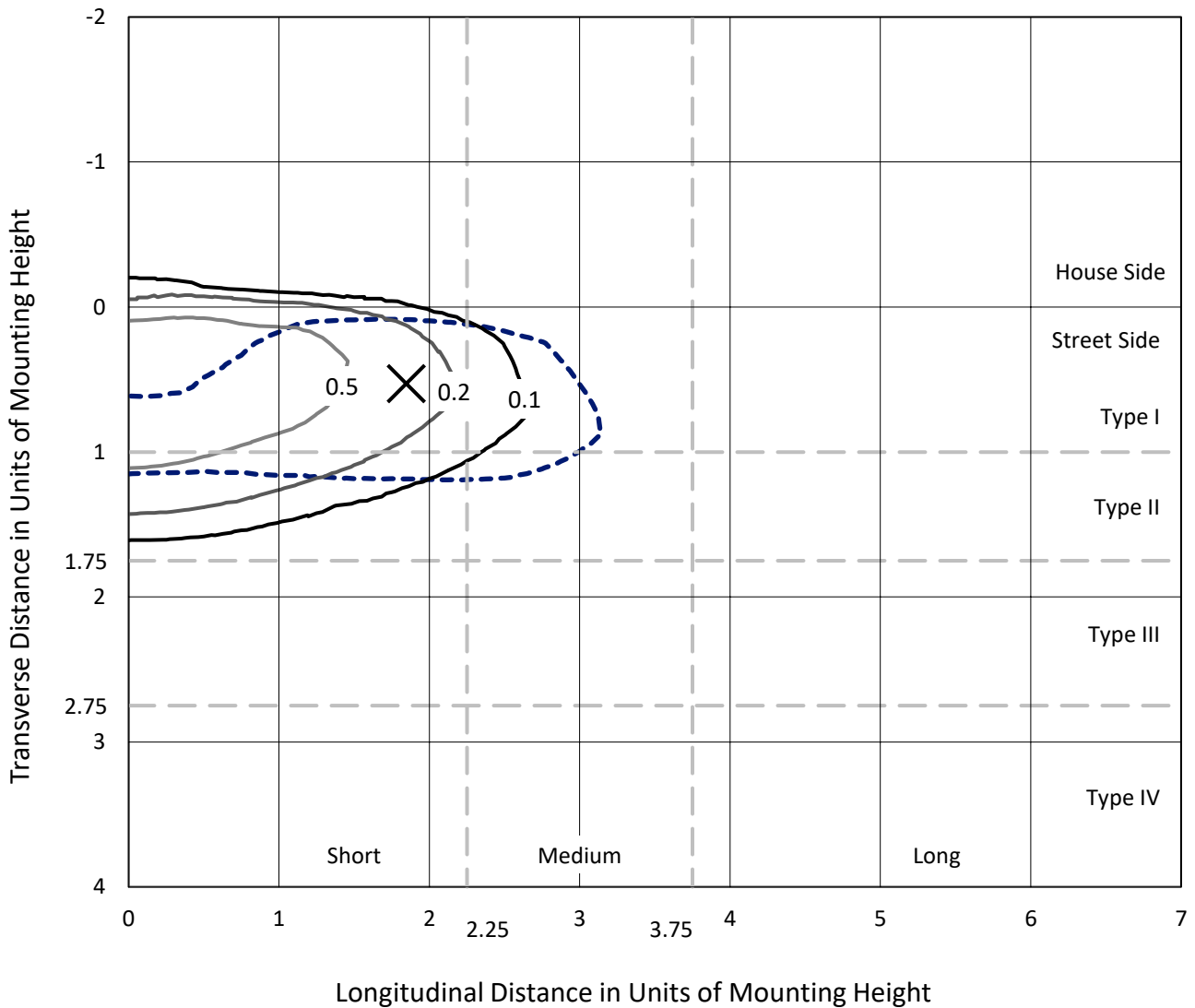
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

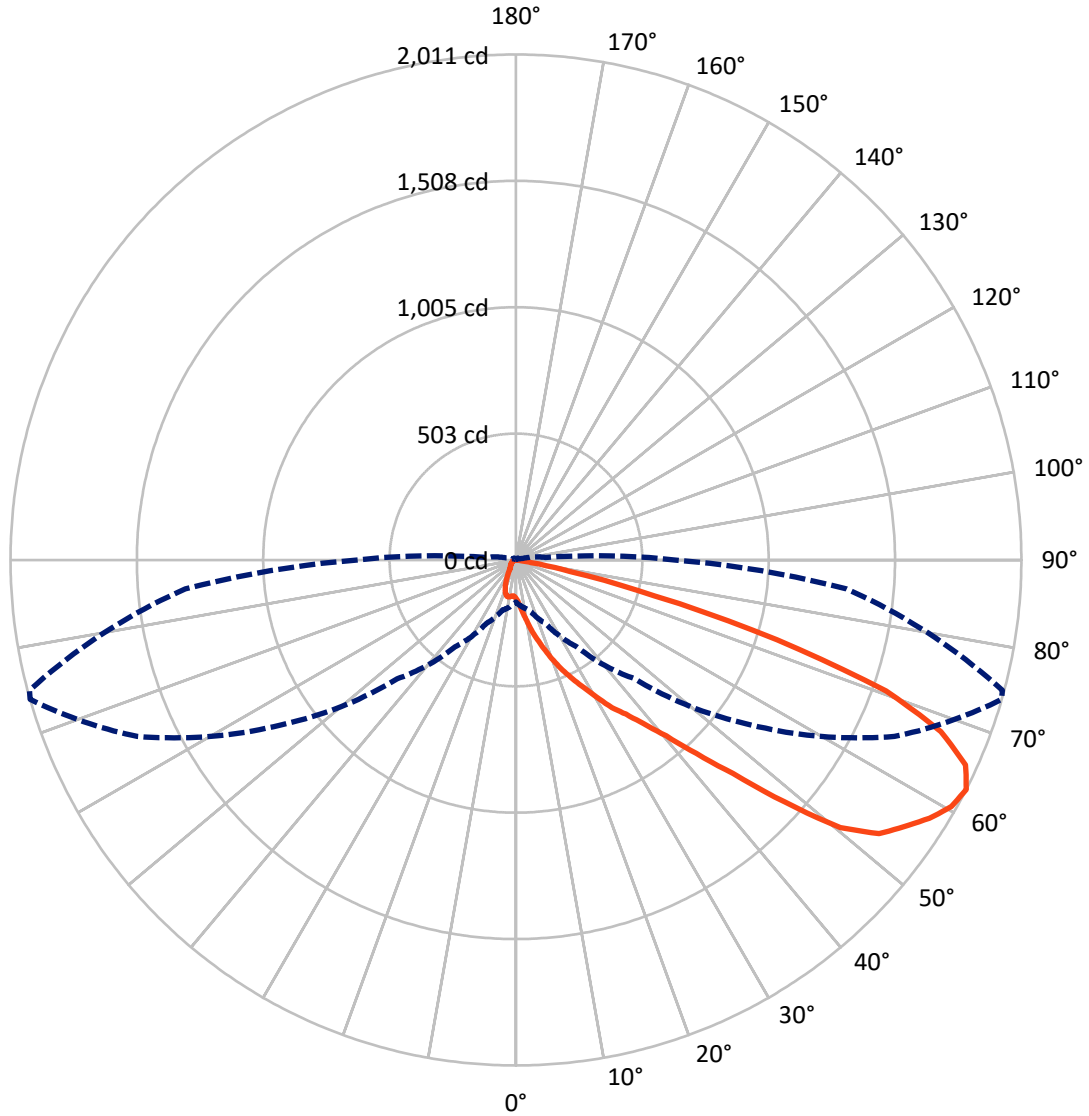
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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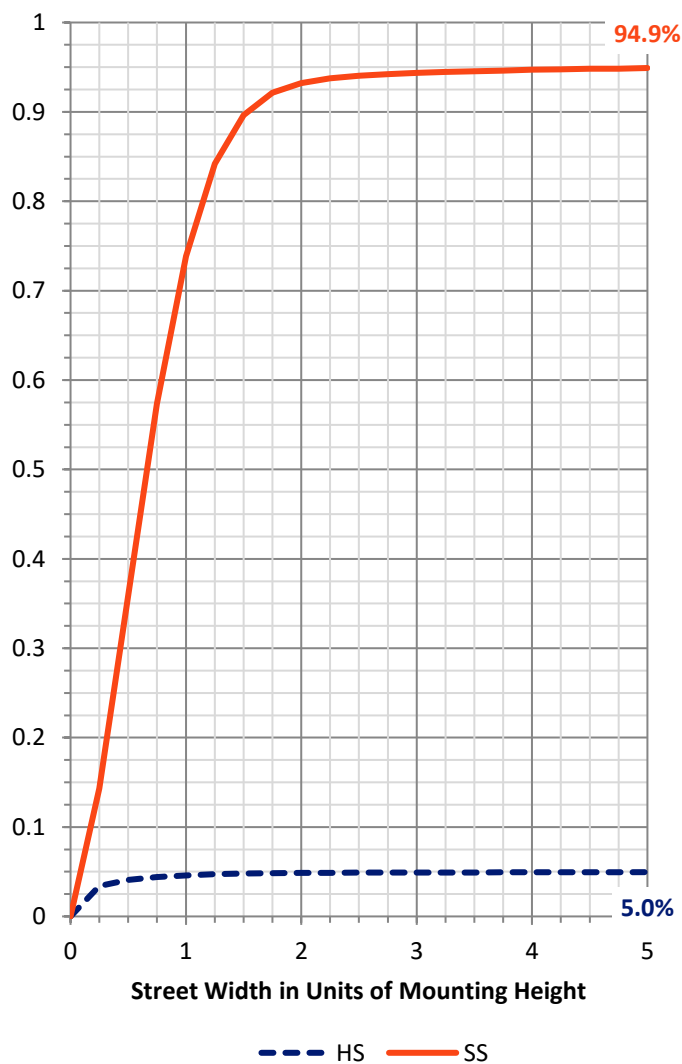
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	104.1	0.0	104.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	1983.9	0.0	1983.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	2088.0	0.0	2088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.1	0.9
10°-20°	80.3	3.8
20°-30°	172.3	8.3
30°-40°	302.2	14.5
40°-50°	468.5	22.4
50°-60°	540.1	25.9
60°-70°	379.4	18.2
70°-80°	118.2	5.7
80°-90°	7.8	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°	2088.0	100.0
0°-180°	2088.0	100.0

Coefficient of Utilization



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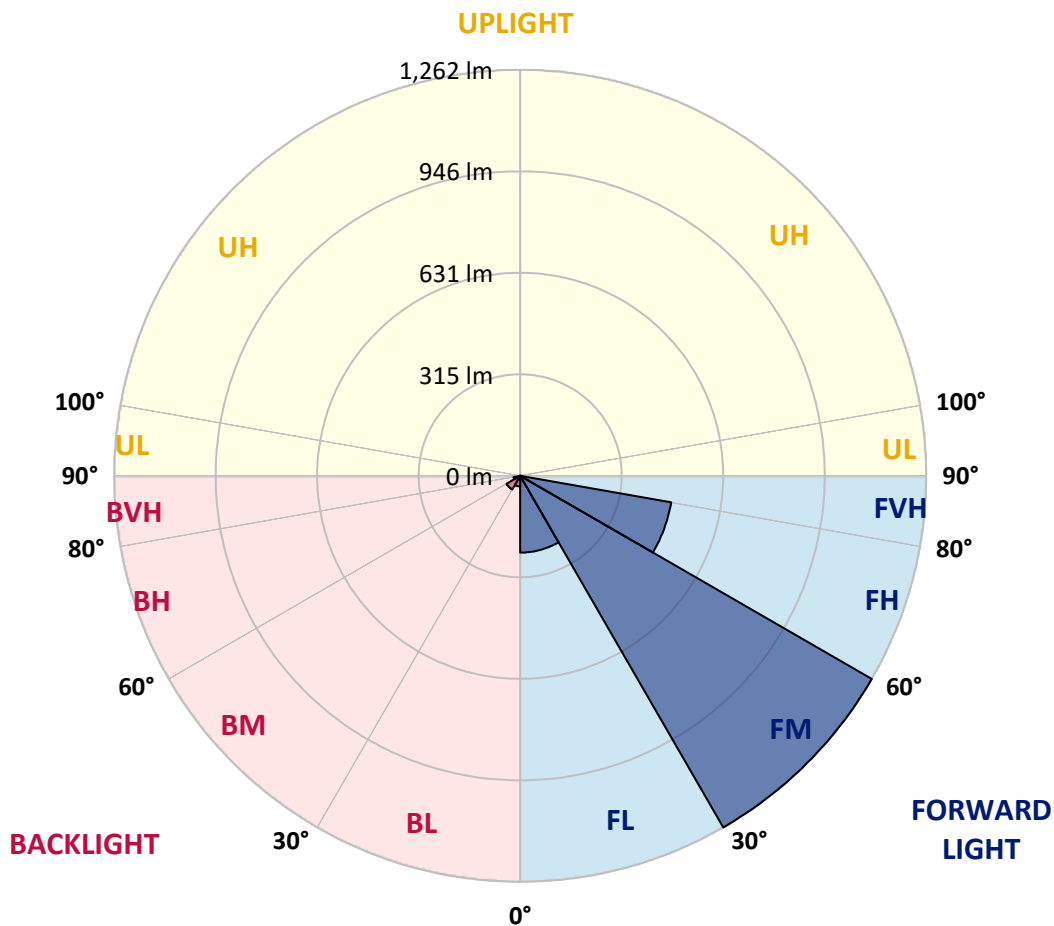
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.7	11.4			
FM (30°-60°)	1261.9	60.4			
FH (60°-80°)	476.6	22.8			G0/660
FVH (80°-90°)	6.7	0.3			G0/10
BL (0°-30°)	33.1	1.6	B0/110		
BM (30°-60°)	48.9	2.3	B0/220		
BH (60°-80°)	21.1	1.0	B0/110		G0/110
BVH (80°-90°)	1.1	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8
2.5°	212.4	208.7	204.3	200.6	193.3	188.1	181.5	174.2	166.1	165.3	158.7
5°	297.6	286.6	286.6	277.0	266.0	246.2	227.8	205.0	188.1	186.7	169.0
7.5°	385.1	376.2	371.1	356.4	338.8	316.7	287.3	249.1	218.2	213.1	184.4
10°	466.6	460.0	450.5	438.7	423.3	387.3	350.5	300.6	251.3	247.6	202.8
12.5°	529.8	521.7	517.3	512.2	492.3	463.7	415.9	352.7	293.9	285.9	221.2
15°	577.6	573.9	569.5	569.5	559.2	531.3	482.1	408.6	335.1	325.5	244.7
17.5°	615.8	611.4	610.7	615.1	612.1	592.3	546.0	462.2	377.7	370.4	269.0
20°	658.4	652.5	652.5	656.2	655.5	644.5	604.0	523.9	427.7	414.5	296.9
22.5°	718.7	715.0	712.1	706.2	701.8	691.5	656.2	584.2	475.4	463.0	325.5
25°	799.5	795.1	781.9	771.6	752.5	737.1	706.9	637.8	523.9	510.0	353.5
27.5°	878.1	869.3	856.8	843.6	822.3	795.8	758.4	688.6	574.6	560.0	382.1
30°	961.2	954.6	939.1	917.8	891.4	862.0	817.1	749.5	632.7	616.5	413.0
32.5°	1027.3	1017.0	1003.1	982.5	955.3	934.7	886.2	816.4	699.6	678.3	445.3
35°	1080.2	1072.1	1053.8	1033.9	1013.4	1007.5	954.6	870.8	753.2	733.4	479.9
37.5°	1114.0	1105.9	1090.5	1070.7	1062.6	1072.9	1038.3	945.0	825.2	800.2	519.5
40°	1140.5	1130.9	1118.4	1109.6	1106.7	1135.3	1131.7	1041.3	920.0	905.3	573.9
42.5°	1159.6	1150.0	1142.0	1141.2	1160.3	1216.2	1257.3	1175.8	1052.3	1022.2	643.7
45°	1135.3	1127.3	1131.7	1157.4	1203.7	1291.9	1409.4	1366.1	1211.8	1190.5	755.4
47.5°	1067.7	1062.6	1082.4	1129.5	1215.4	1338.2	1556.4	1574.8	1439.6	1407.2	900.2
50°	961.9	961.2	992.8	1056.7	1178.7	1355.8	1630.6	1775.4	1673.2	1640.2	1017.8
52.5°	818.6	815.7	862.0	950.9	1092.0	1322.7	1644.6	1855.5	1808.5	1769.5	1092.0
55°	656.2	649.6	704.7	802.5	964.1	1226.5	1607.1	1873.1	1873.1	1837.9	1147.1
57.5°	461.5	471.8	517.3	634.9	806.1	1082.4	1514.5	1857.0	1938.5	1908.4	1221.3
60°	291.0	295.4	345.4	440.2	611.4	889.9	1349.2	1787.1	1990.7	1973.1	1280.8
62.5°	167.5	181.5	206.5	278.5	421.8	668.7	1144.9	1661.5	2010.5	2003.2	1319.8
65°	102.1	103.6	115.4	157.3	259.4	456.3	916.4	1486.6	1965.7	1972.3	1312.4
67.5°	76.4	76.4	80.1	99.2	147.7	290.3	676.1	1274.2	1822.4	1843.7	1243.4
70°	66.1	66.1	66.9	72.7	91.1	172.0	446.8	1027.3	1562.3	1560.1	1027.3
72.5°	52.2	54.4	58.8	61.7	69.1	100.7	261.6	717.9	1085.4	1111.1	661.4
75°	41.9	42.6	48.5	53.6	58.1	68.3	123.5	399.0	569.5	569.5	291.0
77.5°	32.3	33.8	37.5	42.6	48.5	48.5	51.4	154.3	220.5	213.1	86.0
80°	20.6	21.3	27.2	33.8	40.4	34.5	27.9	51.4	60.3	58.1	23.5
82.5°	12.5	13.2	17.6	27.2	27.2	19.1	17.6	21.3	19.1	17.6	9.6
85°	3.7	4.4	12.5	17.6	15.4	7.3	8.8	9.6	8.8	8.1	5.1
87.5°	0.7	0.7	3.7	4.4	3.7	3.7	2.9	3.7	3.7	3.7	2.2
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°	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8
2.5°	155.1	152.1	146.2	141.8	138.2	134.5	131.5	130.8	129.3	129.3	128.6
5°	161.7	155.1	144.0	136.7	130.8	125.7	121.2	116.8	115.4	113.9	114.6
7.5°	172.0	161.7	146.2	135.2	124.9	113.2	103.6	95.5	89.7	88.2	86.0
10°	185.2	169.7	149.9	132.3	113.2	92.6	79.4	71.3	68.3	64.7	65.4
12.5°	198.4	179.3	152.8	124.2	93.3	72.7	61.7	56.6	54.4	53.6	54.4
15°	213.8	189.6	151.4	109.5	75.0	58.8	52.2	50.0	48.5	48.5	47.8
17.5°	229.3	198.4	146.2	90.4	60.3	50.0	47.0	44.8	43.4	42.6	42.6
20°	246.2	206.5	134.5	72.0	50.0	45.6	42.6	39.7	38.2	38.2	38.2
22.5°	263.8	212.4	119.0	57.3	44.8	40.4	37.5	35.3	33.8	33.8	33.8
25°	279.2	215.3	100.7	47.8	41.2	36.7	33.8	31.6	30.9	30.1	30.1
27.5°	293.9	214.6	81.6	41.9	36.7	33.1	30.1	28.7	27.2	27.2	27.2
30°	308.6	210.2	64.7	38.2	33.8	29.4	27.2	25.7	25.0	24.2	24.2
32.5°	321.1	202.8	50.7	35.3	30.9	26.5	24.2	22.8	22.8	22.0	22.0
35°	333.6	191.8	42.6	33.1	27.9	24.2	22.0	21.3	20.6	20.6	20.6
37.5°	346.8	177.8	37.5	30.1	25.0	22.0	20.6	19.8	19.1	18.4	18.4
40°	363.0	163.9	35.3	27.9	22.8	19.8	18.4	17.6	16.9	16.9	16.9
42.5°	388.7	152.1	33.1	25.0	20.6	18.4	16.9	15.4	15.4	14.7	14.7
45°	437.2	147.7	30.9	22.8	19.1	16.2	15.4	14.0	13.2	13.2	13.2
47.5°	500.4	148.4	28.7	20.6	17.6	14.7	14.0	13.2	11.8	11.8	11.8
50°	552.6	144.8	26.5	19.1	15.4	14.0	12.5	11.8	11.0	11.0	11.0
52.5°	573.2	138.2	24.2	17.6	14.7	12.5	11.8	11.0	10.3	10.3	10.3
55°	593.8	135.2	22.0	15.4	13.2	12.5	11.0	10.3	9.6	8.8	8.8
57.5°	631.2	136.7	19.8	14.7	12.5	11.8	10.3	8.8	7.3	6.6	6.6
60°	651.1	131.5	18.4	13.2	11.8	11.0	8.8	6.6	5.1	4.4	4.4
62.5°	634.2	116.8	16.9	12.5	11.0	9.6	6.6	5.1	3.7	2.2	2.2
65°	587.1	96.3	15.4	11.8	9.6	7.3	5.9	3.7	2.2	1.5	1.5
67.5°	527.6	75.7	14.0	11.0	8.8	6.6	5.1	2.9	1.5	0.7	0.7
70°	426.2	54.4	13.2	10.3	8.1	5.9	4.4	2.9	1.5	0.7	0.7
72.5°	274.8	35.3	11.8	9.6	7.3	5.9	3.7	2.2	1.5	0.7	0.7
75°	127.1	23.5	11.0	8.8	7.3	5.1	3.7	2.9	1.5	0.7	0.7
77.5°	37.5	16.9	10.3	8.1	6.6	5.1	3.7	2.9	1.5	0.7	0.7
80°	15.4	11.8	8.1	7.3	6.6	5.1	3.7	2.9	1.5	0.7	0.7
82.5°	7.3	5.1	3.7	2.9	3.7	3.7	2.9	2.9	1.5	0.7	0.7
85°	3.7	2.2	1.5	1.5	1.5	0.7	0.7	1.5	1.5	0.7	0.7
87.5°	2.2	1.5	1.5	1.5	0.7	0.7	0.7	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)