

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: P573026

Luminaire Tested: **ARCH-S-PA2-20-827-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-20-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2020 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

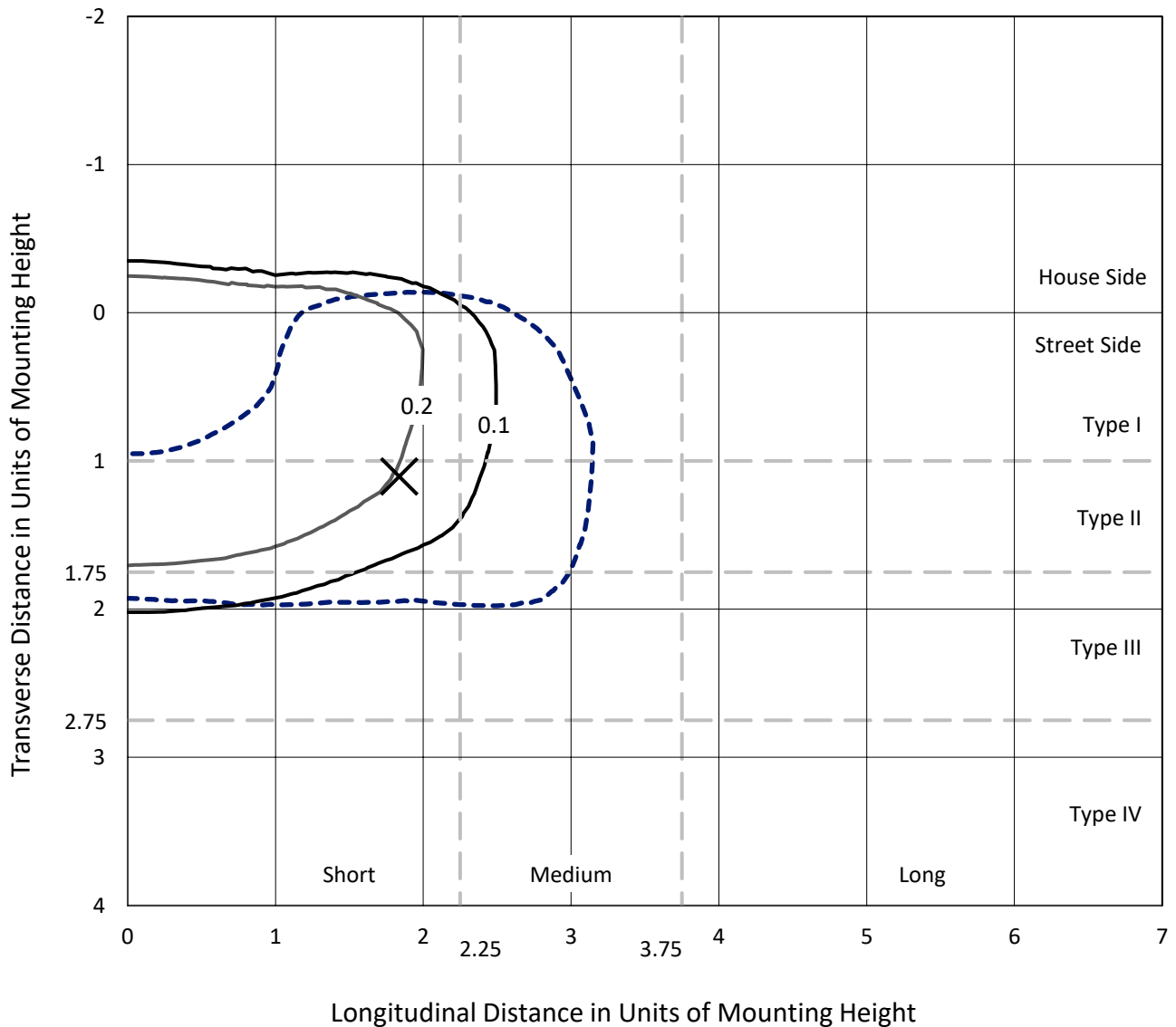
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

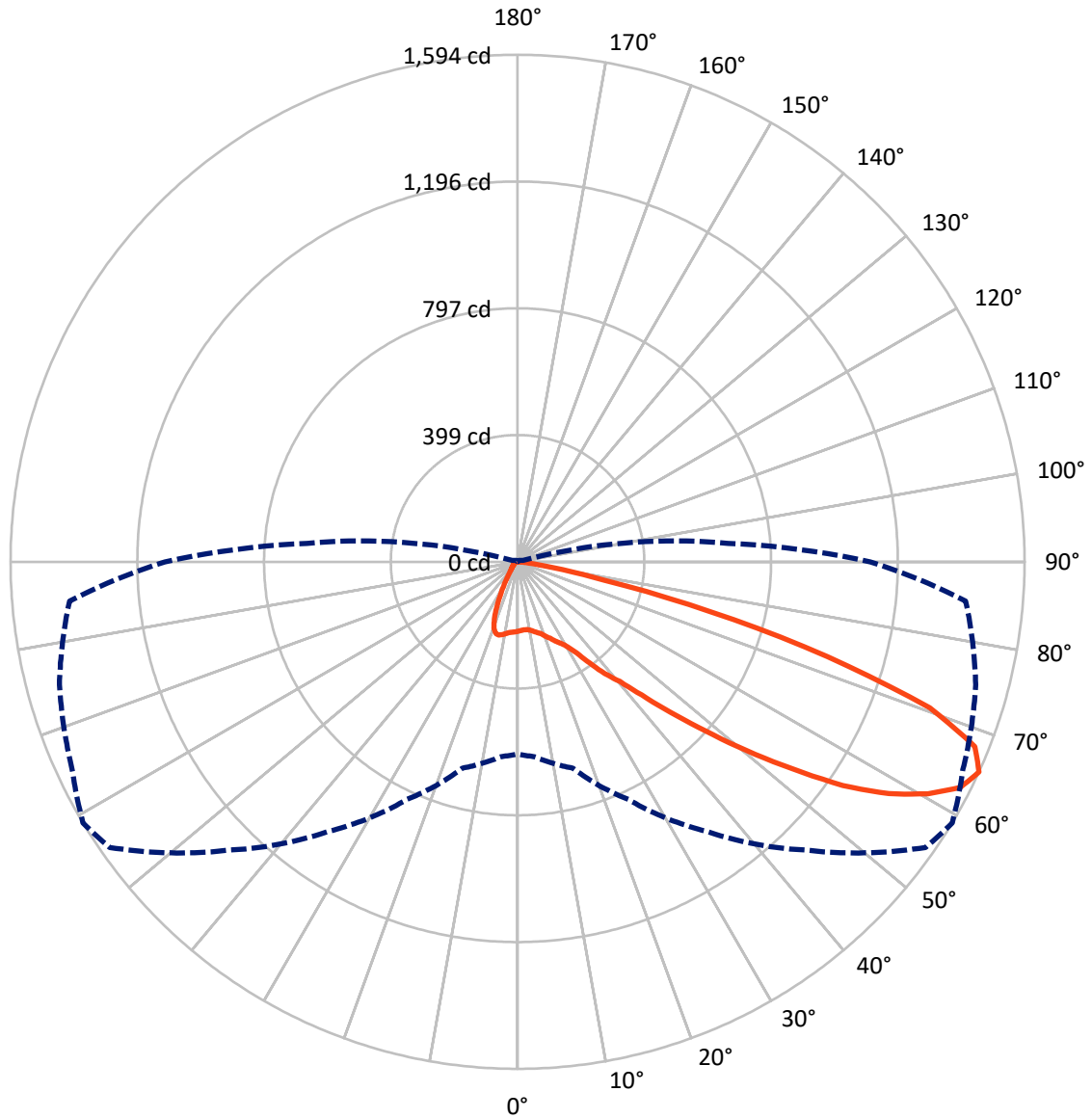
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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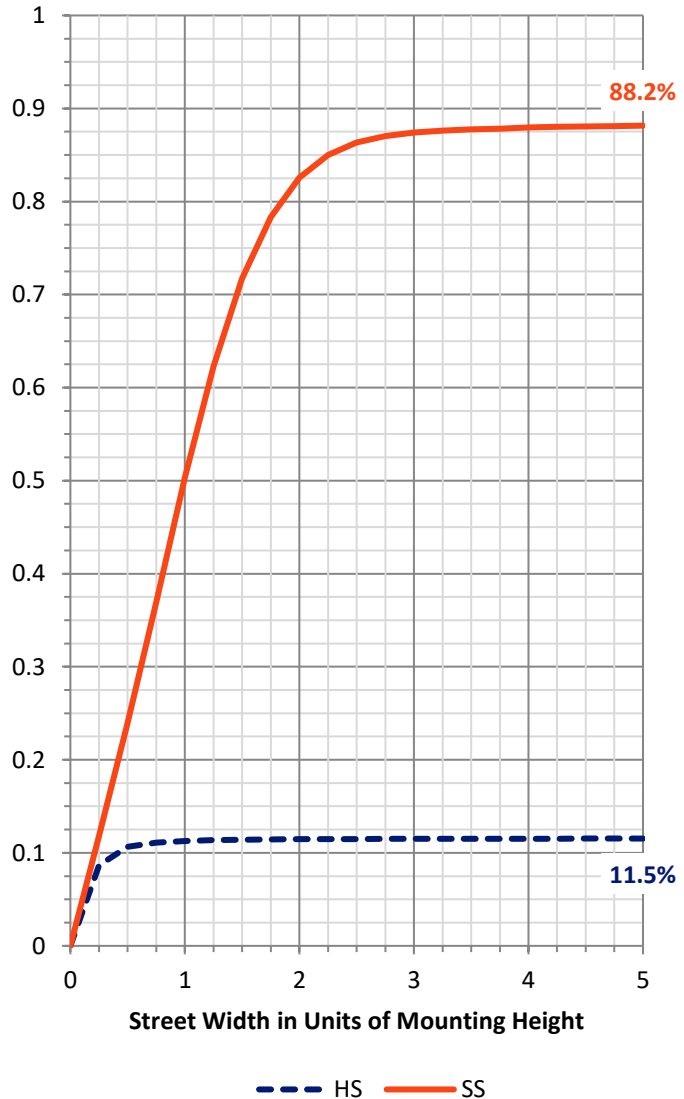
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	235.6	0.0	235.6
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	1784.3	0.0	1784.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	2020.0	0.0	2020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	1.0
10°-20°	58.6	2.9
20°-30°	99.5	4.9
30°-40°	176.3	8.7
40°-50°	332.6	16.5
50°-60°	562.7	27.9
60°-70°	585.0	29.0
70°-80°	175.4	8.7
80°-90°	9.2	0.5
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°	2020.0	100.0
0°-180°	2020.0	100.0

Coefficient of Utilization



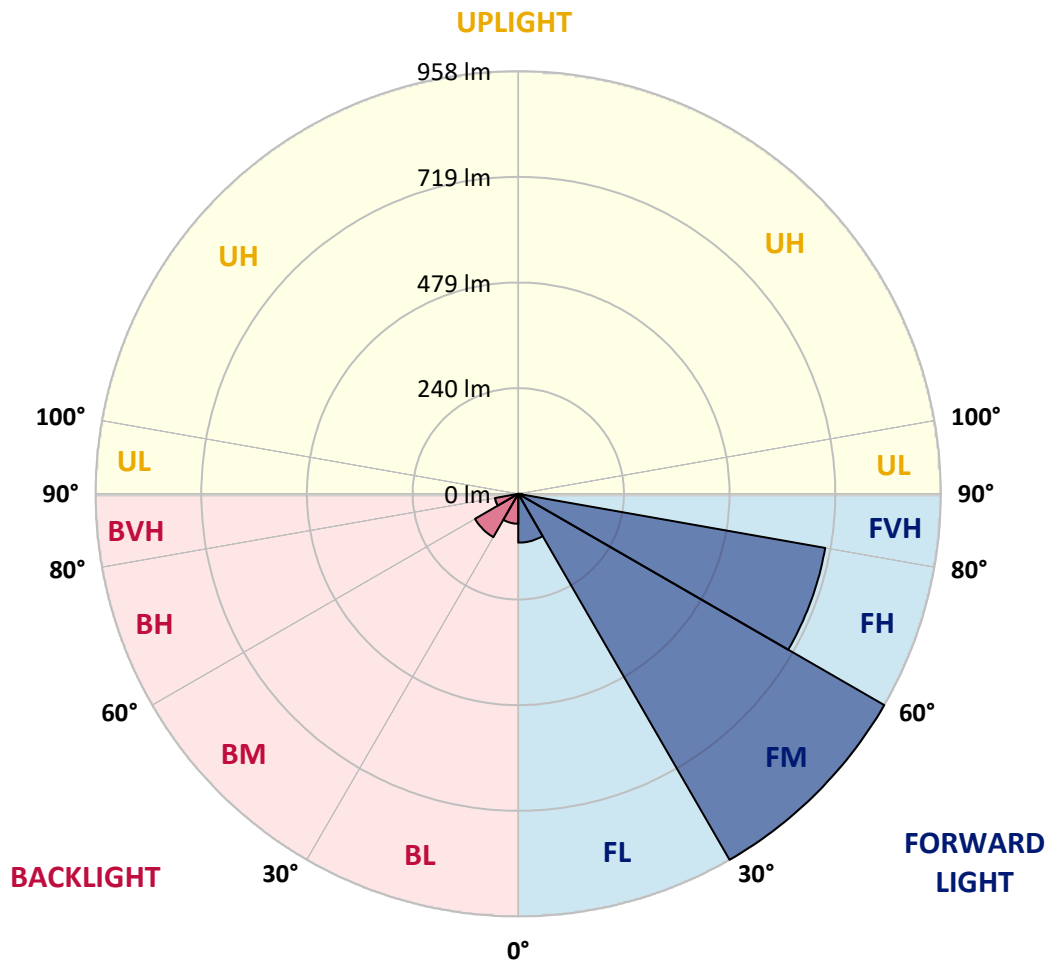
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	110.8	5.5			
FM (30°-60°)	958.3	47.4			
FH (60°-80°)	706.9	35.0			G1/1800
FVH (80°-90°)	8.4	0.4			G0/10
BL (0°-30°)	68.0	3.4	B0/110		
BM (30°-60°)	113.3	5.6	B0/220		
BH (60°-80°)	53.6	2.7	B0/110		G0/110
BVH (80°-90°)	0.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3
2.5°	212.4	211.7	211.7	213.1	213.9	214.6	216.1	216.1	216.1	217.5	218.3
5°	202.1	202.1	202.8	204.3	207.3	209.5	213.9	214.6	215.3	219.0	220.5
7.5°	195.5	195.5	196.2	199.2	202.8	208.0	213.9	215.3	217.5	222.7	226.4
10°	194.8	194.0	195.5	198.4	202.8	209.5	216.1	218.3	222.7	229.3	234.5
12.5°	197.0	196.2	197.7	200.6	205.1	211.7	220.5	224.2	229.3	238.1	245.5
15°	198.4	197.7	199.2	202.8	208.0	216.1	226.4	230.8	237.4	249.9	257.2
17.5°	202.8	202.1	202.8	205.8	210.9	219.8	233.0	237.4	248.4	262.4	270.5
20°	222.7	222.0	217.5	216.1	216.8	224.9	241.8	249.1	262.4	280.0	285.9
22.5°	263.8	260.9	252.8	239.6	230.8	233.7	252.8	260.9	278.5	298.4	302.8
25°	319.0	316.8	305.0	282.2	257.2	249.9	265.3	276.3	297.7	319.7	318.2
27.5°	381.4	377.0	366.0	334.4	300.6	276.3	280.8	290.3	313.8	337.3	330.0
30°	435.8	434.4	421.9	395.4	355.7	319.7	304.3	309.4	330.7	355.7	346.9
32.5°	485.8	481.4	471.1	446.1	409.4	372.6	341.8	341.8	359.4	388.8	375.6
35°	540.9	538.0	525.5	500.5	465.2	421.9	393.9	391.0	405.7	438.8	410.1
37.5°	597.5	590.2	584.3	558.6	523.3	485.8	452.0	445.4	452.7	477.0	441.7
40°	668.1	668.1	654.8	631.3	598.3	558.6	511.5	494.6	492.4	524.0	496.8
42.5°	750.4	748.2	737.2	715.1	683.5	646.8	587.2	571.8	570.3	608.5	576.2
45°	845.2	843.7	830.5	812.1	790.1	749.7	690.9	675.4	666.6	710.7	672.5
47.5°	931.9	926.8	922.4	924.6	912.1	866.5	811.4	793.0	792.3	826.8	777.6
50°	991.5	988.5	1003.9	1018.6	1042.2	1013.5	948.1	931.9	919.4	965.0	887.1
52.5°	1030.4	1028.9	1059.8	1101.7	1150.2	1148.0	1089.9	1080.4	1070.1	1082.6	984.8
55°	1045.8	1045.8	1082.6	1159.8	1245.0	1281.8	1254.6	1241.3	1205.3	1179.6	1092.1
57.5°	1027.5	1025.3	1073.0	1173.7	1303.8	1379.5	1391.3	1375.8	1319.2	1290.6	1211.2
60°	949.6	951.0	1007.6	1134.8	1299.4	1419.2	1494.9	1480.9	1424.3	1381.7	1311.2
62.5°	804.0	816.5	876.1	1014.2	1205.3	1387.6	1554.4	1561.8	1500.8	1447.9	1400.1
65°	604.1	615.2	671.7	824.6	1034.1	1281.8	1565.5	1594.1	1544.9	1491.2	1414.0
67.5°	367.5	371.2	440.2	555.6	761.4	1067.9	1488.3	1550.8	1515.5	1427.3	1275.9
70°	171.2	180.8	214.6	303.5	482.1	786.4	1286.2	1374.4	1334.7	1225.2	970.1
72.5°	66.9	69.8	91.1	140.4	255.8	494.6	959.8	1018.6	991.5	870.2	578.4
75°	33.1	35.3	44.1	66.9	116.9	204.3	586.5	624.7	579.9	437.3	244.7
77.5°	24.3	24.3	29.4	41.2	63.9	75.7	246.9	277.1	261.6	169.0	66.9
80°	16.2	17.6	20.6	27.9	40.4	36.7	93.3	111.0	92.6	52.2	23.5
82.5°	9.6	10.3	15.4	19.8	27.2	21.3	31.6	35.3	38.2	25.7	11.0
85°	5.1	5.1	10.3	14.7	14.7	9.6	11.0	12.5	14.7	15.4	5.9
87.5°	1.5	1.5	6.6	8.8	5.9	5.1	5.9	5.9	6.6	8.1	2.9
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°	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3
2.5°	219.0	219.0	219.8	219.8	220.5	220.5	220.5	220.5	221.2	222.0	222.0
5°	221.2	222.0	222.0	222.0	222.0	220.5	219.8	219.0	219.0	219.8	219.8
7.5°	227.1	227.8	227.1	225.6	223.4	220.5	217.5	217.5	216.8	217.5	216.8
10°	235.9	235.9	235.2	231.5	227.8	222.0	216.1	211.7	208.7	208.0	206.5
12.5°	246.9	246.9	244.7	238.1	231.5	220.5	205.1	190.4	178.6	173.4	172.0
15°	258.0	258.0	255.0	245.5	232.2	205.8	173.4	142.6	124.9	117.6	113.2
17.5°	271.2	269.7	264.6	251.4	224.2	176.4	124.2	92.6	78.6	72.0	72.0
20°	285.2	283.7	274.1	252.1	203.6	126.4	80.8	63.9	60.3	58.8	58.8
22.5°	300.6	296.9	282.2	246.2	160.2	86.0	61.0	56.6	55.1	54.4	54.4
25°	313.1	307.2	288.1	230.0	114.7	60.3	53.7	52.2	49.2	48.5	47.0
27.5°	322.6	313.8	290.3	195.5	75.7	50.0	47.8	44.8	41.9	39.0	39.0
30°	335.1	324.1	291.8	152.1	51.4	43.4	41.2	37.5	33.8	30.9	30.9
32.5°	360.1	344.0	292.5	106.6	42.6	38.2	33.8	29.4	25.7	24.3	23.5
35°	387.3	365.3	284.4	69.1	37.5	32.3	27.2	23.5	19.8	19.1	19.1
37.5°	417.5	396.9	266.8	47.0	33.1	27.2	22.0	18.4	16.2	15.4	15.4
40°	468.2	443.9	237.4	37.5	28.7	22.8	18.4	15.4	14.0	13.2	13.2
42.5°	540.9	499.0	200.6	32.3	25.0	19.1	14.7	12.5	11.8	11.0	11.0
45°	624.7	560.8	158.0	29.4	22.0	16.2	12.5	11.0	10.3	9.6	9.6
47.5°	721.0	624.7	124.9	25.7	19.1	14.0	11.0	9.6	8.8	8.1	8.1
50°	812.1	674.7	94.1	22.8	16.9	11.8	9.6	8.8	8.1	7.3	7.3
52.5°	887.1	708.5	71.3	19.8	14.7	10.3	8.8	8.1	6.6	6.6	6.6
55°	977.5	735.0	54.4	17.6	13.2	9.6	8.1	6.6	5.9	5.1	5.1
57.5°	1056.1	744.5	39.7	15.4	11.8	8.8	7.3	5.9	4.4	3.7	3.7
60°	1109.0	736.4	28.7	13.2	10.3	7.3	5.9	4.4	2.9	2.2	2.2
62.5°	1146.5	718.8	22.0	11.8	8.8	6.6	5.1	3.7	2.2	1.5	1.5
65°	1109.0	664.4	17.6	10.3	7.3	5.9	3.7	2.9	1.5	0.7	0.7
67.5°	959.1	557.1	14.0	8.8	6.6	5.1	3.7	2.2	0.7	0.0	0.0
70°	689.4	397.6	11.8	8.1	5.9	4.4	2.9	1.5	0.7	0.0	0.0
72.5°	384.4	205.1	11.0	7.3	5.9	4.4	2.9	1.5	0.7	0.0	0.0
75°	155.8	70.6	10.3	7.3	5.9	3.7	2.9	1.5	0.7	0.0	0.0
77.5°	45.6	24.3	8.8	6.6	5.9	4.4	2.9	1.5	0.7	0.0	0.0
80°	16.2	11.0	6.6	5.9	4.4	3.7	2.9	2.2	0.7	0.0	0.0
82.5°	7.3	4.4	2.9	2.2	2.2	2.2	2.2	1.5	0.7	0.0	0.0
85°	2.9	2.2	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
87.5°	2.2	1.5	0.7	0.7	0.7	0.7	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)