

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: P572974

Luminaire Tested: **ARCH-S-PA2-20-727-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-20-727-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2264 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

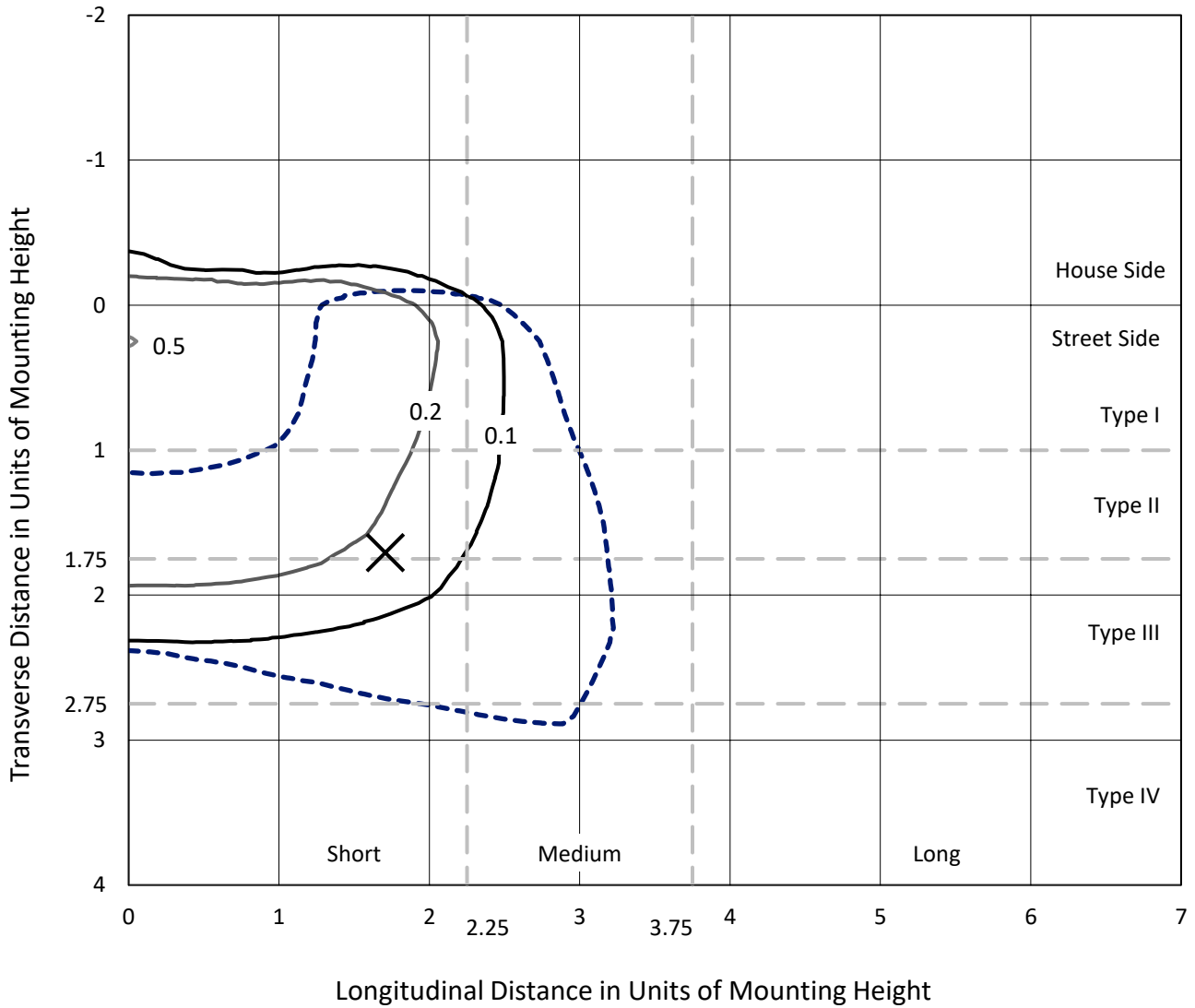
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572974
 CATALOG NUMBER: ARCH-S-PA2-20-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

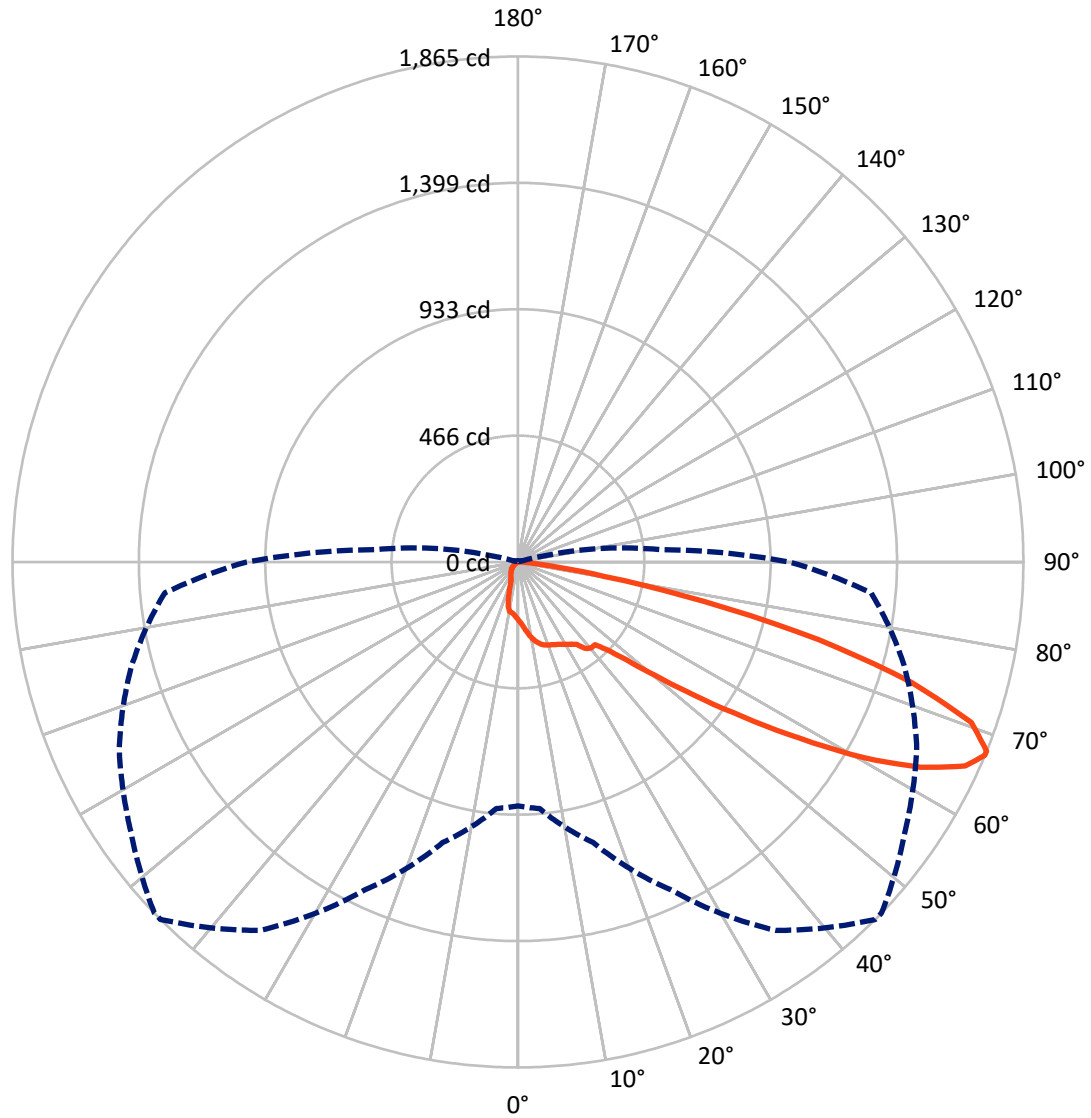
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P572974
CATALOG NUMBER: ARCH-S-PA2-20-727-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P572974
 CATALOG NUMBER: ARCH-S-PA2-20-727-U-T4W-HSS

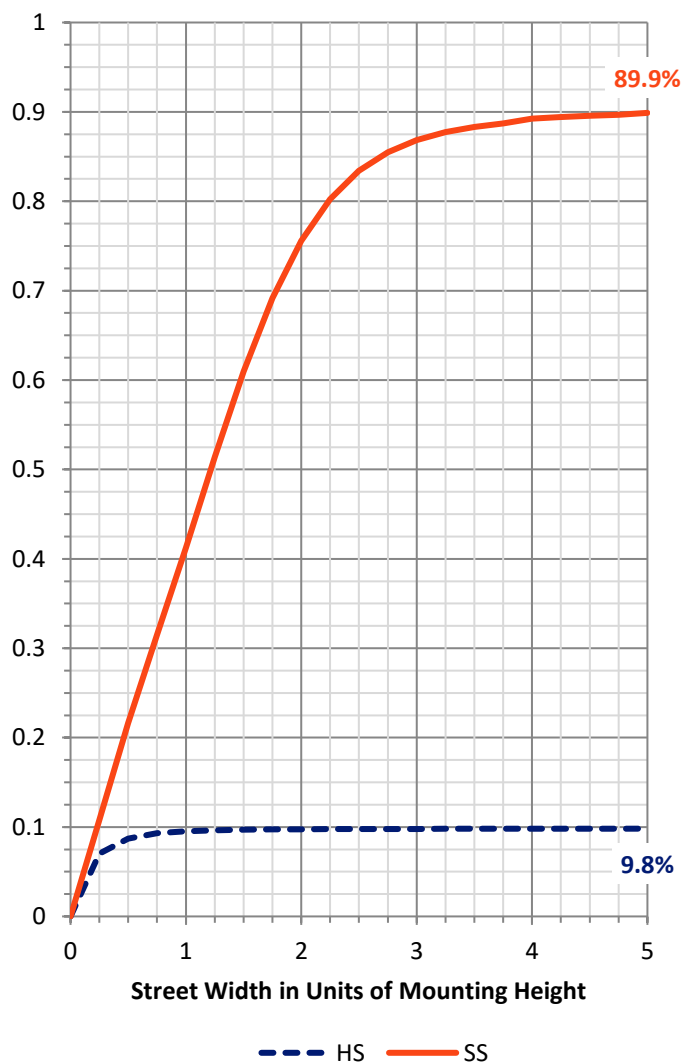
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	224.3	0.0	224.3
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	2039.7	0.0	2039.7
	% Fixture	90.1	0.0	90.1
Total	Lumens	2264.0	0.0	2264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	0.9
10°-20°	65.0	2.9
20°-30°	103.9	4.6
30°-40°	149.6	6.6
40°-50°	262.4	11.6
50°-60°	552.9	24.4
60°-70°	764.5	33.8
70°-80°	320.1	14.1
80°-90°	24.2	1.1
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°	2264.0	100.0
0°-180°	2264.0	100.0

Coefficient of Utilization

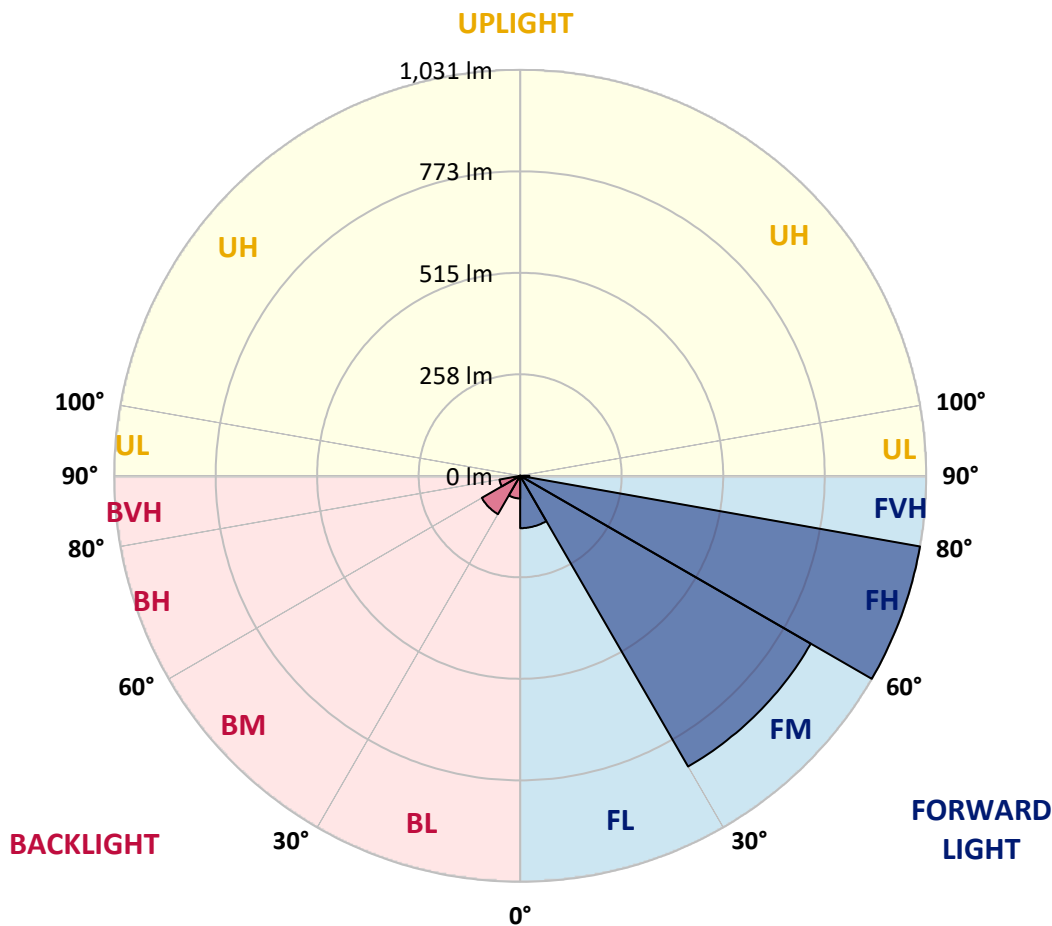


REPORT NUMBER: P572974
 CATALOG NUMBER: ARCH-S-PA2-20-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	132.9	5.9			
FM (30°-60°)	852.4	37.7			
FH (60°-80°)	1031.0	45.5			G1/1800
FVH (80°-90°)	23.4	1.0			G1/100
BL (0°-30°)	57.5	2.5	B0/110		
BM (30°-60°)	112.4	5.0	B0/220		
BH (60°-80°)	53.6	2.4	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





REPORT NUMBER: P572974

CATALOG NUMBER: ARCH-S-PA2-20-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1
2.5°	238.4	234.2	233.4	232.5	230.0	226.7	227.5	225.0	220.8	218.3	215.8
5°	267.6	263.5	261.8	256.8	251.8	244.2	244.2	237.5	230.0	223.3	216.6
7.5°	297.8	294.4	291.1	283.5	276.0	266.0	265.1	255.1	243.4	233.4	222.5
10°	322.8	320.3	316.2	307.0	296.9	286.0	283.5	274.3	259.3	245.9	231.7
12.5°	342.9	340.4	334.6	325.4	312.8	301.9	301.1	289.4	274.3	260.1	242.6
15°	358.0	353.8	347.1	337.1	324.5	314.5	312.8	302.8	288.6	272.7	251.8
17.5°	360.5	358.0	352.1	341.2	330.4	322.0	321.2	313.6	301.1	284.4	262.6
20°	353.8	353.0	347.9	339.6	331.2	327.0	326.2	321.2	311.1	296.1	274.3
22.5°	343.8	342.9	339.6	335.4	332.0	331.2	331.2	329.5	323.7	309.5	289.4
25°	337.1	336.2	334.6	332.0	332.0	337.1	337.9	339.6	334.6	323.7	301.9
27.5°	337.9	336.2	334.6	332.0	335.4	344.6	345.4	349.6	345.4	335.4	316.2
30°	349.6	347.1	342.1	336.2	340.4	353.0	353.8	358.8	355.5	350.4	332.0
32.5°	368.0	366.3	356.3	346.3	348.8	361.3	363.0	372.2	376.4	368.8	346.3
35°	394.8	388.9	376.4	366.3	364.7	373.9	376.4	391.4	402.3	383.9	354.6
37.5°	416.5	411.5	391.4	375.5	384.7	405.6	406.5	424.9	415.7	385.6	368.0
40°	490.1	489.3	454.2	404.0	393.9	417.4	420.7	424.0	419.9	404.8	397.3
42.5°	608.9	598.8	559.5	482.6	414.0	416.5	418.2	435.8	457.5	450.8	453.3
45°	737.7	729.3	685.0	588.0	482.6	461.7	463.4	491.8	533.6	542.0	555.4
47.5°	856.5	843.1	818.0	720.1	599.7	538.6	542.0	576.3	645.7	664.1	685.0
50°	956.8	947.6	924.2	859.8	743.5	659.9	663.2	691.7	782.0	811.3	838.1
52.5°	1102.3	1089.8	1044.6	1014.5	926.7	818.0	810.5	840.6	944.3	963.5	999.5
55°	1236.2	1210.2	1183.5	1170.9	1134.1	1007.0	1004.5	1010.3	1096.5	1106.5	1170.9
57.5°	1293.0	1288.0	1310.6	1352.4	1360.8	1229.5	1218.6	1196.0	1263.8	1262.9	1338.2
60°	1329.0	1329.0	1389.2	1492.9	1559.8	1467.0	1452.0	1381.7	1406.0	1406.8	1476.2
62.5°	1306.4	1312.3	1406.0	1562.4	1697.0	1668.6	1658.5	1540.6	1538.9	1519.7	1544.0
65°	1166.8	1176.8	1327.3	1523.9	1747.2	1814.1	1809.9	1676.1	1627.6	1557.3	1503.0
67°	951.8	970.2	1152.5	1385.0	1690.3	1864.3	1865.1	1734.7	1628.4	1494.6	1358.3
67.5°	899.9	913.3	1071.4	1334.9	1659.4	1865.1	1865.1	1742.2	1623.4	1475.4	1308.1
70°	573.8	577.1	749.4	1032.9	1417.7	1774.8	1781.5	1685.3	1478.7	1194.4	918.3
72.5°	283.5	276.0	395.6	664.9	1063.9	1518.9	1536.4	1439.4	1170.1	780.3	485.1
75°	111.2	118.8	172.3	353.8	666.6	1145.0	1158.4	1047.1	752.7	402.3	191.5
77.5°	49.3	49.3	73.6	158.9	350.4	702.6	709.3	639.0	397.3	165.6	58.5
80°	26.8	28.4	38.5	69.4	176.5	322.8	352.1	317.0	179.8	72.8	20.1
82.5°	13.4	14.2	23.4	39.3	88.7	122.1	128.8	134.7	82.8	45.2	8.4
85°	5.0	5.9	12.5	22.6	40.1	41.0	41.0	52.7	45.2	34.3	4.2
87.5°	0.8	1.7	5.9	9.2	15.9	14.2	12.5	16.7	25.1	21.7	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P572974

CATALOG NUMBER: ARCH-S-PA2-20-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1
2.5°	214.1	212.4	209.1	206.6	204.9	203.2	201.6	201.6	200.7	200.7	201.6
5°	214.1	210.8	204.1	199.9	196.5	194.0	192.4	192.4	191.5	192.4	193.2
7.5°	218.3	213.3	204.1	196.5	192.4	188.2	186.5	185.7	185.7	186.5	185.7
10°	225.0	218.3	206.6	196.5	190.7	184.8	175.6	167.3	159.7	156.4	155.6
12.5°	233.4	225.0	210.8	199.1	189.9	169.8	144.7	128.8	118.8	113.7	112.1
15°	242.6	232.5	215.8	202.4	177.3	139.7	107.1	89.5	83.6	84.5	85.3
17.5°	252.6	241.7	223.3	200.7	152.2	103.7	78.6	74.4	76.9	79.5	79.5
20°	262.6	250.9	230.8	188.2	119.6	76.9	70.3	71.1	73.6	76.1	76.1
22.5°	276.0	263.5	238.4	166.4	88.7	66.9	66.9	68.6	70.3	72.8	72.8
25°	290.2	277.7	243.4	139.7	66.1	62.7	63.6	65.2	66.9	69.4	69.4
27.5°	305.3	292.7	242.6	107.9	57.7	57.7	58.5	61.1	62.7	65.2	65.2
30°	322.0	311.1	233.4	78.6	53.5	52.7	52.7	55.2	57.7	59.4	60.2
32.5°	336.2	327.0	217.5	59.4	50.2	48.5	47.7	48.5	51.0	52.7	53.5
35°	347.9	344.6	194.0	51.0	46.8	44.3	42.7	41.8	42.7	42.7	43.5
37.5°	369.7	370.5	166.4	47.7	44.3	41.0	37.6	35.1	33.5	32.6	31.8
40°	410.7	409.8	137.2	45.2	41.8	37.6	32.6	29.3	25.1	23.4	23.4
42.5°	468.4	455.8	104.5	42.7	39.3	34.3	27.6	22.6	18.4	17.6	17.6
45°	572.1	520.2	78.6	41.0	36.8	30.1	22.6	16.7	14.2	13.4	13.4
47.5°	686.7	594.7	62.7	38.5	34.3	26.8	17.6	13.4	10.9	10.9	10.9
50°	813.0	665.8	52.7	36.0	30.1	22.6	14.2	10.9	10.0	9.2	10.0
52.5°	951.0	721.8	46.0	32.6	25.9	18.4	11.7	10.0	8.4	8.4	8.4
55°	1074.7	759.4	38.5	28.4	21.7	15.1	10.9	8.4	7.5	6.7	5.9
57.5°	1186.8	779.5	30.9	24.3	16.7	12.5	9.2	6.7	5.9	4.2	4.2
60°	1244.5	761.1	24.3	19.2	13.4	10.0	7.5	5.9	4.2	2.5	2.5
62.5°	1253.7	713.4	19.2	15.1	11.7	8.4	5.9	4.2	2.5	1.7	1.7
65°	1173.4	629.8	15.9	12.5	9.2	6.7	5.0	3.3	1.7	0.8	0.8
67°	1029.6	542.0	14.2	10.9	8.4	5.9	4.2	2.5	1.7	0.8	0.0
67.5°	1001.1	526.1	13.4	10.9	8.4	5.9	4.2	2.5	1.7	0.8	0.0
70°	657.4	363.8	12.5	10.0	7.5	5.0	3.3	2.5	0.8	0.0	0.0
72.5°	358.8	183.2	11.7	9.2	6.7	5.0	3.3	1.7	0.8	0.0	0.0
75°	131.3	69.4	10.0	8.4	5.9	5.0	3.3	1.7	0.8	0.0	0.0
77.5°	44.3	24.3	9.2	8.4	6.7	5.0	3.3	1.7	0.8	0.0	0.0
80°	15.1	10.9	7.5	6.7	5.0	4.2	3.3	1.7	0.8	0.0	0.0
82.5°	5.9	3.3	2.5	2.5	2.5	3.3	3.3	2.5	0.8	0.0	0.0
85°	2.5	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
87.5°	2.5	1.7	0.8	0.8	0.8	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)