

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: P573028

Luminaire Tested: **ARCH-S-PA2-20-827-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573028
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-PA2-20-827-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 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: 1990 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

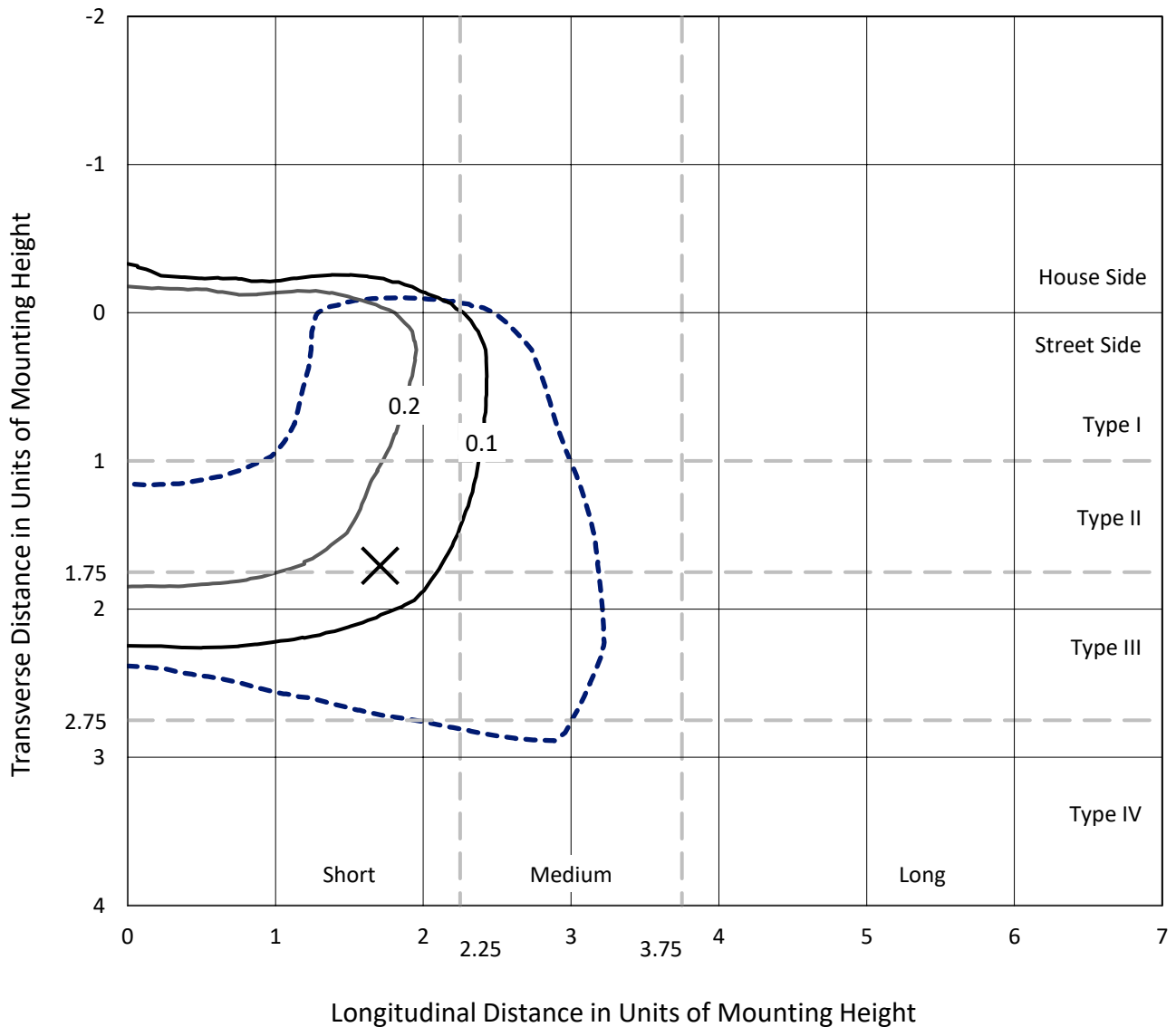
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573028
 CATALOG NUMBER: ARCH-S-PA2-20-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

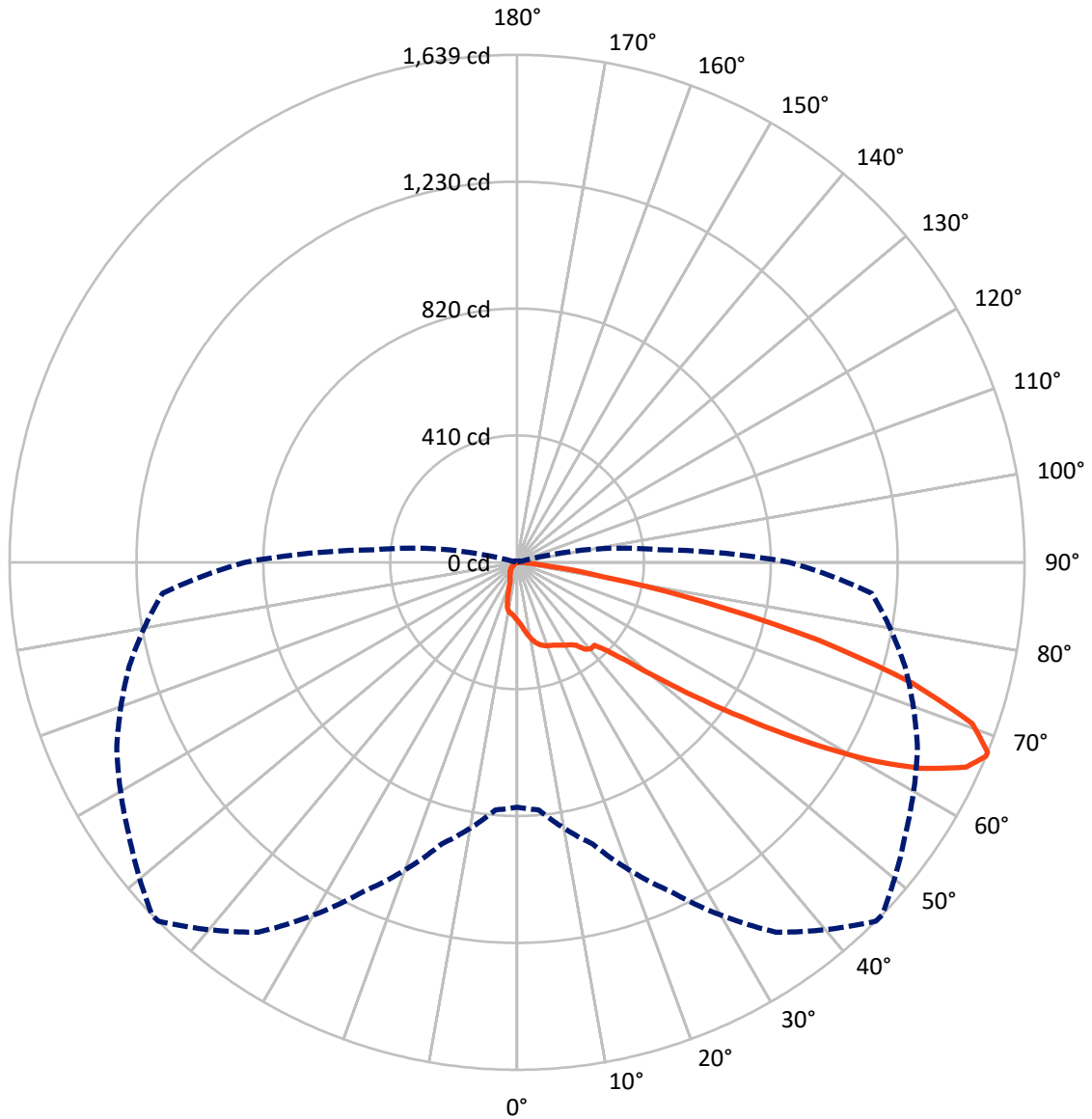
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P573028
CATALOG NUMBER: ARCH-S-PA2-20-827-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P573028
 CATALOG NUMBER: ARCH-S-PA2-20-827-U-T4W-HSS

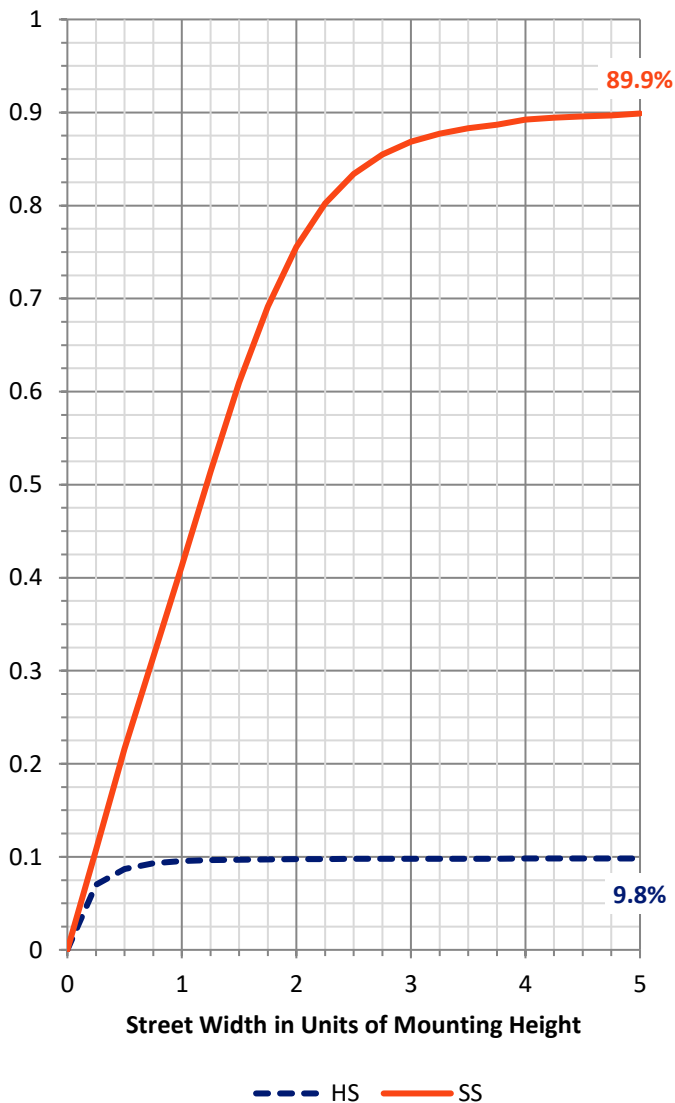
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	197.2	0.0	197.2
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	1792.8	0.0	1792.8
	% Fixture	90.1	0.0	90.1
Total	Lumens	1990.0	0.0	1990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	0.9
10°-20°	57.1	2.9
20°-30°	91.3	4.6
30°-40°	131.5	6.6
40°-50°	230.6	11.6
50°-60°	486.0	24.4
60°-70°	672.0	33.8
70°-80°	281.3	14.1
80°-90°	21.3	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°	1990.0	100.0
0°-180°	1990.0	100.0

Coefficient of Utilization



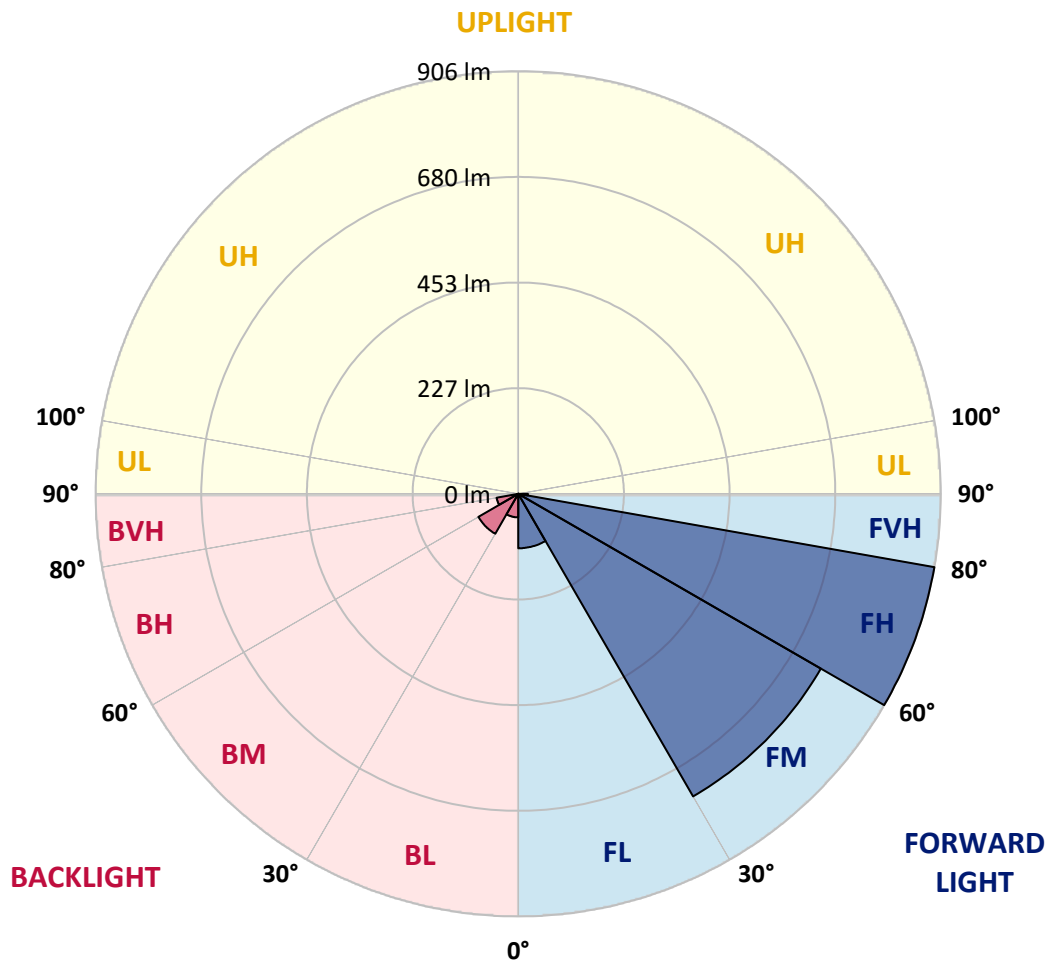
REPORT NUMBER: P573028
 CATALOG NUMBER: ARCH-S-PA2-20-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	116.8	5.9			
FM (30°-60°)	749.3	37.7			
FH (60°-80°)	906.2	45.5			G1/1800
FVH (80°-90°)	20.6	1.0			G1/100
BL (0°-30°)	50.5	2.5	B0/110		
BM (30°-60°)	98.8	5.0	B0/220		
BH (60°-80°)	47.1	2.4	B0/110		G0/110
BVH (80°-90°)	0.7	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: P573028
 CATALOG NUMBER: ARCH-S-PA2-20-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2
2.5°	209.5	205.8	205.1	204.4	202.2	199.2	200.0	197.8	194.1	191.9	189.7
5°	235.3	231.6	230.1	225.7	221.3	214.7	214.7	208.8	202.2	196.3	190.4
7.5°	261.7	258.8	255.8	249.2	242.6	233.8	233.0	224.2	213.9	205.1	195.6
10°	283.8	281.6	277.9	269.8	261.0	251.4	249.2	241.1	227.9	216.1	203.6
12.5°	301.4	299.2	294.1	286.0	274.9	265.4	264.7	254.4	241.1	228.6	213.2
15°	314.6	311.0	305.1	296.3	285.2	276.4	274.9	266.1	253.6	239.7	221.3
17.5°	316.9	314.6	309.5	299.9	290.4	283.0	282.3	275.7	264.7	250.0	230.8
20°	311.0	310.2	305.8	298.5	291.1	287.4	286.7	282.3	273.5	260.2	241.1
22.5°	302.1	301.4	298.5	294.8	291.9	291.1	291.1	289.7	284.5	272.0	254.4
25°	296.3	295.5	294.1	291.9	291.9	296.3	297.0	298.5	294.1	284.5	265.4
27.5°	297.0	295.5	294.1	291.9	294.8	302.9	303.6	307.3	303.6	294.8	277.9
30°	307.3	305.1	300.7	295.5	299.2	310.2	311.0	315.4	312.4	308.0	291.9
32.5°	323.5	322.0	313.2	304.4	306.6	317.6	319.1	327.1	330.8	324.2	304.4
35°	347.0	341.8	330.8	322.0	320.5	328.6	330.8	344.1	353.6	337.4	311.7
37.5°	366.1	361.7	344.1	330.1	338.2	356.6	357.3	373.5	365.4	338.9	323.5
40°	430.8	430.1	399.2	355.1	346.3	366.8	369.8	372.7	369.0	355.8	349.2
42.5°	535.2	526.4	491.8	424.2	363.9	366.1	367.6	383.0	402.1	396.3	398.5
45°	648.4	641.1	602.1	516.8	424.2	405.8	407.3	432.3	469.0	476.4	488.1
47.5°	752.8	741.0	719.0	633.0	527.1	473.4	476.4	506.5	567.5	583.7	602.1
50°	841.0	832.9	812.3	755.7	653.6	580.0	583.0	608.0	687.4	713.1	736.6
52.5°	968.9	957.9	918.2	891.7	814.6	719.0	712.4	738.8	830.0	846.9	878.5
55°	1086.6	1063.8	1040.2	1029.2	996.9	885.1	882.9	888.1	963.8	972.6	1029.2
57.5°	1136.6	1132.1	1152.0	1188.8	1196.1	1080.7	1071.1	1051.3	1110.8	1110.1	1176.3
60°	1168.2	1168.2	1221.1	1312.3	1371.1	1289.5	1276.2	1214.5	1235.8	1236.5	1297.6
62.5°	1148.3	1153.5	1235.8	1373.3	1491.6	1466.6	1457.8	1354.2	1352.7	1335.8	1357.1
65°	1025.5	1034.4	1166.7	1339.5	1535.7	1594.6	1590.9	1473.3	1430.6	1368.9	1321.1
67°	836.6	852.8	1013.0	1217.4	1485.8	1638.7	1639.4	1524.7	1431.4	1313.7	1193.9
67.5°	791.0	802.8	941.7	1173.3	1458.6	1639.4	1639.4	1531.3	1426.9	1296.8	1149.8
70°	504.3	507.3	658.7	907.9	1246.1	1560.0	1565.9	1481.3	1299.8	1049.8	807.2
72.5°	249.2	242.6	347.7	584.5	935.1	1335.0	1350.5	1265.2	1028.5	685.9	426.4
75°	97.8	104.4	151.4	311.0	585.9	1006.4	1018.2	920.4	661.6	353.6	168.4
77.5°	43.4	43.4	64.7	139.7	308.0	617.5	623.4	561.7	349.2	145.6	51.5
80°	23.5	25.0	33.8	61.0	155.1	283.8	309.5	278.6	158.1	64.0	17.6
82.5°	11.8	12.5	20.6	34.6	77.9	107.3	113.2	118.4	72.8	39.7	7.4
85°	4.4	5.1	11.0	19.8	35.3	36.0	36.0	46.3	39.7	30.1	3.7
87.5°	0.7	1.5	5.1	8.1	14.0	12.5	11.0	14.7	22.1	19.1	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



REPORT NUMBER: P573028
 CATALOG NUMBER: ARCH-S-PA2-20-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2
2.5°	188.2	186.7	183.8	181.6	180.1	178.6	177.2	177.2	176.4	176.4	177.2
5°	188.2	185.3	179.4	175.7	172.8	170.6	169.1	169.1	168.4	169.1	169.8
7.5°	191.9	187.5	179.4	172.8	169.1	165.4	163.9	163.2	163.2	163.9	163.2
10°	197.8	191.9	181.6	172.8	167.6	162.5	154.4	147.0	140.4	137.5	136.7
12.5°	205.1	197.8	185.3	175.0	166.9	149.2	127.2	113.2	104.4	100.0	98.5
15°	213.2	204.4	189.7	177.9	155.9	122.8	94.1	78.7	73.5	74.3	75.0
17.5°	222.0	212.5	196.3	176.4	133.8	91.2	69.1	65.4	67.6	69.8	69.8
20°	230.8	220.5	202.9	165.4	105.1	67.6	61.8	62.5	64.7	66.9	66.9
22.5°	242.6	231.6	209.5	146.3	77.9	58.8	58.8	60.3	61.8	64.0	64.0
25°	255.1	244.1	213.9	122.8	58.1	55.1	55.9	57.3	58.8	61.0	61.0
27.5°	268.3	257.3	213.2	94.8	50.7	50.7	51.5	53.7	55.1	57.3	57.3
30°	283.0	273.5	205.1	69.1	47.1	46.3	46.3	48.5	50.7	52.2	52.9
32.5°	295.5	287.4	191.1	52.2	44.1	42.6	41.9	42.6	44.8	46.3	47.1
35°	305.8	302.9	170.6	44.8	41.2	39.0	37.5	36.8	37.5	37.5	38.2
37.5°	324.9	325.7	146.3	41.9	39.0	36.0	33.1	30.9	29.4	28.7	27.9
40°	361.0	360.2	120.6	39.7	36.8	33.1	28.7	25.7	22.1	20.6	20.6
42.5°	411.7	400.7	91.9	37.5	34.6	30.1	24.3	19.8	16.2	15.4	15.4
45°	502.8	457.3	69.1	36.0	32.3	26.5	19.8	14.7	12.5	11.8	11.8
47.5°	603.6	522.7	55.1	33.8	30.1	23.5	15.4	11.8	9.6	9.6	9.6
50°	714.6	585.2	46.3	31.6	26.5	19.8	12.5	9.6	8.8	8.1	8.8
52.5°	835.9	634.4	40.4	28.7	22.8	16.2	10.3	8.8	7.4	7.4	7.4
55°	944.7	667.5	33.8	25.0	19.1	13.2	9.6	7.4	6.6	5.9	5.1
57.5°	1043.2	685.2	27.2	21.3	14.7	11.0	8.1	5.9	5.1	3.7	3.7
60°	1093.9	669.0	21.3	16.9	11.8	8.8	6.6	5.1	3.7	2.2	2.2
62.5°	1102.0	627.1	16.9	13.2	10.3	7.4	5.1	3.7	2.2	1.5	1.5
65°	1031.4	553.6	14.0	11.0	8.1	5.9	4.4	2.9	1.5	0.7	0.7
67°	905.0	476.4	12.5	9.6	7.4	5.1	3.7	2.2	1.5	0.7	0.0
67.5°	880.0	462.4	11.8	9.6	7.4	5.1	3.7	2.2	1.5	0.7	0.0
70°	577.8	319.8	11.0	8.8	6.6	4.4	2.9	2.2	0.7	0.0	0.0
72.5°	315.4	161.0	10.3	8.1	5.9	4.4	2.9	1.5	0.7	0.0	0.0
75°	115.4	61.0	8.8	7.4	5.1	4.4	2.9	1.5	0.7	0.0	0.0
77.5°	39.0	21.3	8.1	7.4	5.9	4.4	2.9	1.5	0.7	0.0	0.0
80°	13.2	9.6	6.6	5.9	4.4	3.7	2.9	1.5	0.7	0.0	0.0
82.5°	5.1	2.9	2.2	2.2	2.2	2.9	2.9	2.2	0.7	0.0	0.0
85°	2.2	1.5	0.7	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	0.0	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)