

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: P573049

Luminaire Tested: **ARCH-S-PA2-30-727-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573049
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-PA2-30-727-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 320mA 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: 3376 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

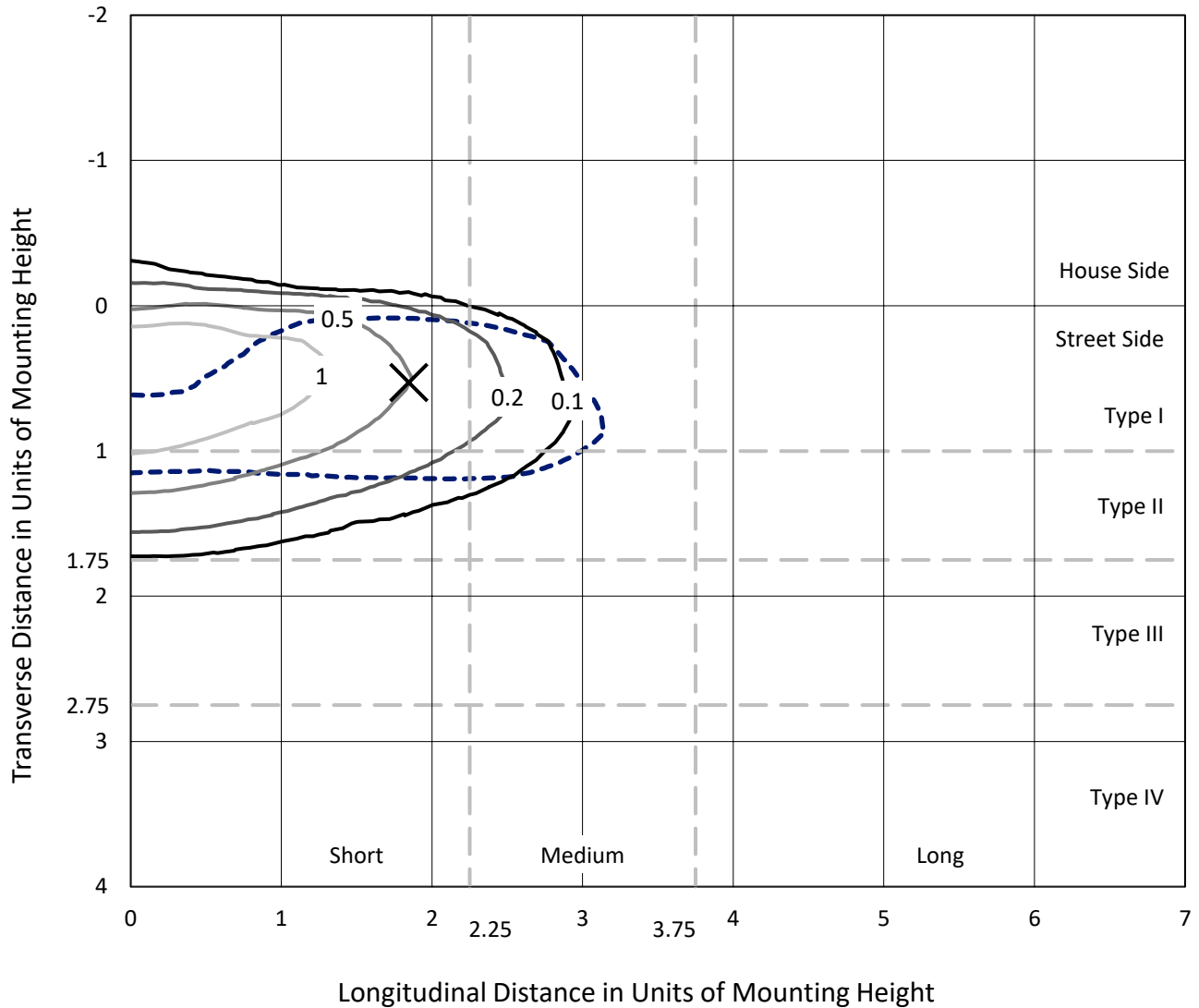
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573049
 CATALOG NUMBER: ARCH-S-PA2-30-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

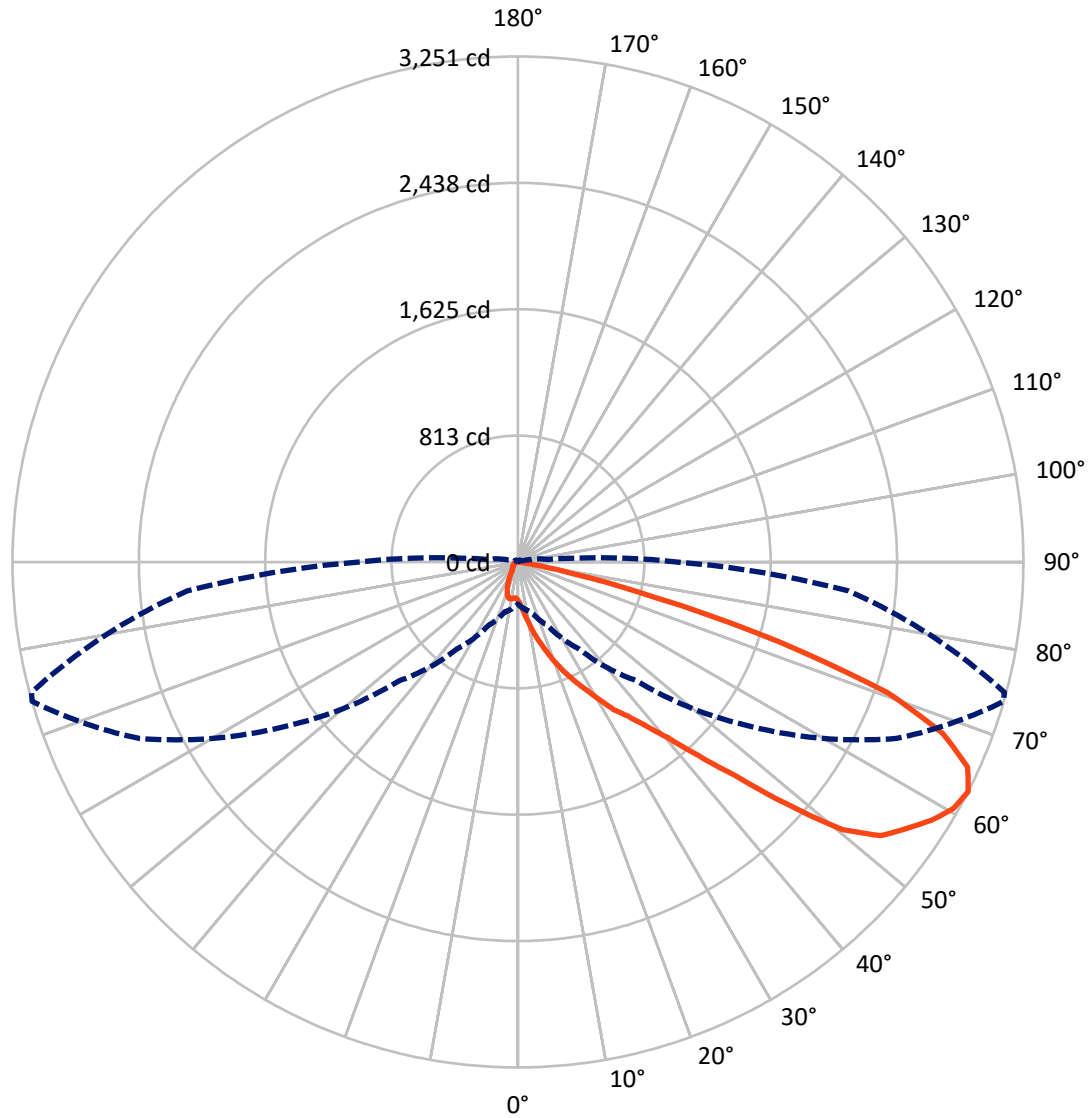
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

REPORT NUMBER: P573049
CATALOG NUMBER: ARCH-S-PA2-30-727-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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 CATALOG NUMBER: ARCH-S-PA2-30-727-U-T2R-HSS

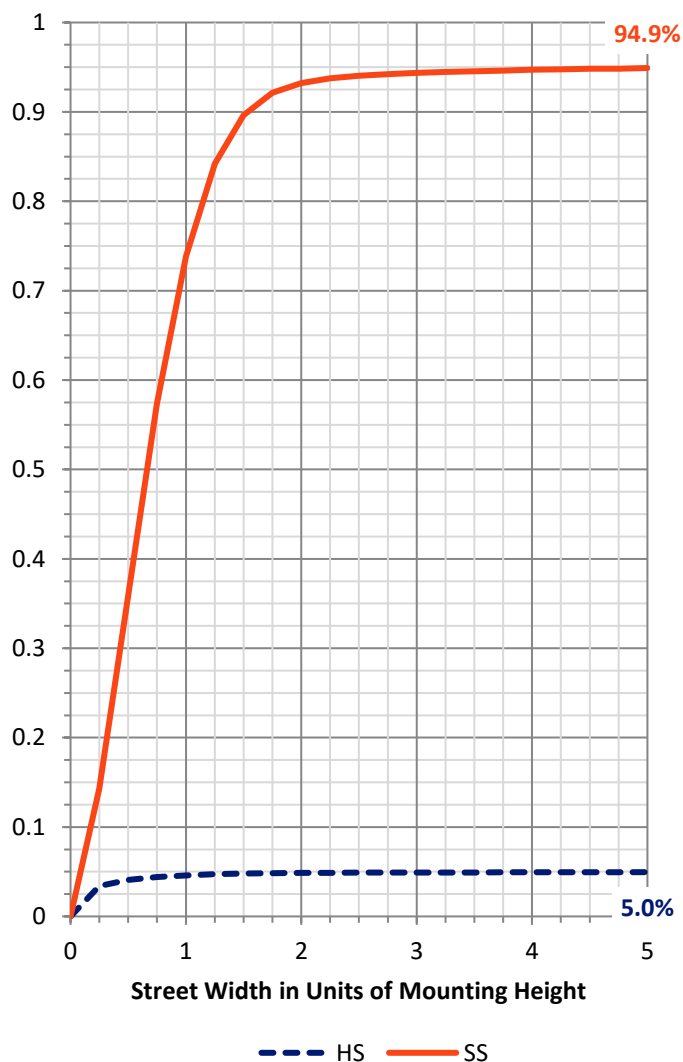
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	168.4	0.0	168.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3207.6	0.0	3207.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	3376.0	0.0	3376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	0.9
10°-20°	129.8	3.8
20°-30°	278.6	8.3
30°-40°	488.6	14.5
40°-50°	757.5	22.4
50°-60°	873.3	25.9
60°-70°	613.5	18.2
70°-80°	191.1	5.7
80°-90°	12.6	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°	3376.0	100.0
0°-180°	3376.0	100.0

Coefficient of Utilization



REPORT NUMBER: P573049

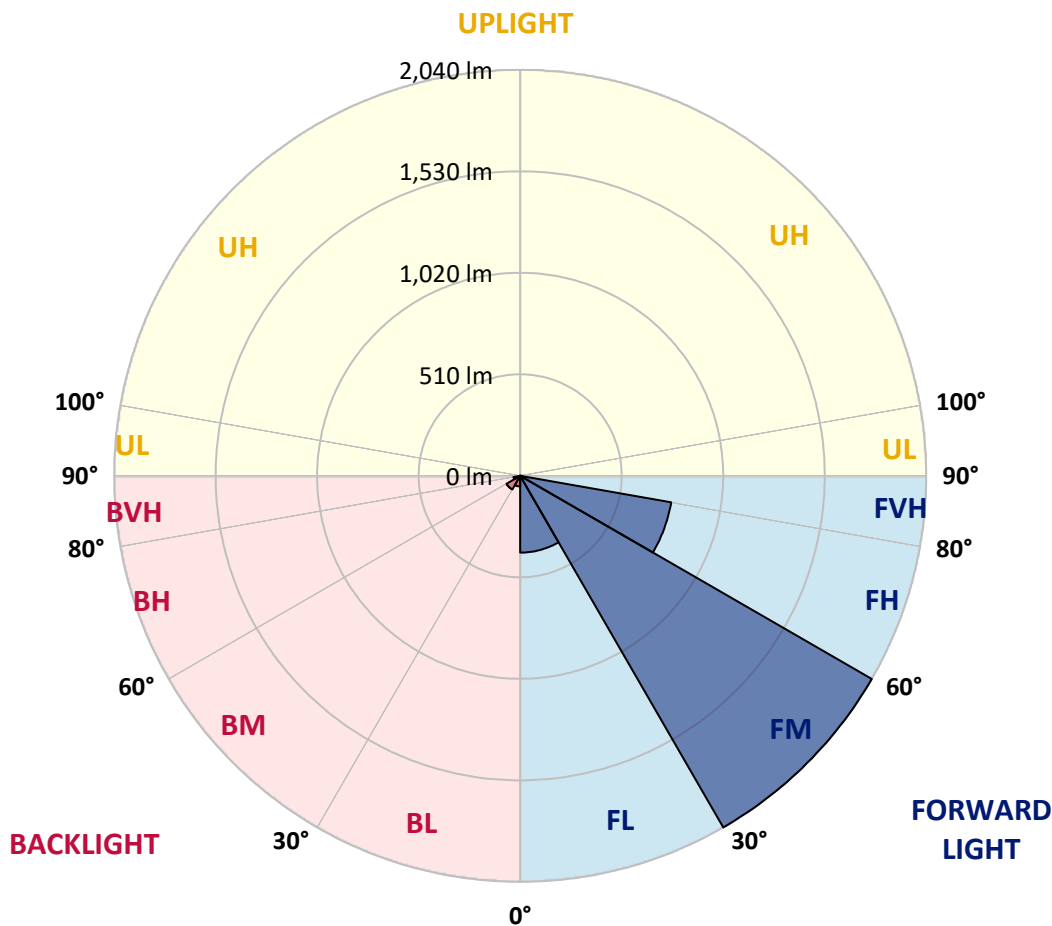
CATALOG NUMBER: ARCH-S-PA2-30-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.9	11.4			
FM (30°-60°)	2040.3	60.4			
FH (60°-80°)	770.6	22.8			G1/1800
FVH (80°-90°)	10.9	0.3			G1/100
BL (0°-30°)	53.4	1.6	B0/110		
BM (30°-60°)	79.1	2.3	B0/220		
BH (60°-80°)	34.1	1.0	B0/110		G0/110
BVH (80°-90°)	1.7	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-G1

Type II Short





REPORT NUMBER: P573049

CATALOG NUMBER: ARCH-S-PA2-30-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1
2.5°	343.4	337.4	330.3	324.4	312.5	304.2	293.5	281.6	268.5	267.3	256.6
5°	481.2	463.4	463.4	447.9	430.1	398.0	368.3	331.5	304.2	301.8	273.3
7.5°	622.6	608.3	600.0	576.2	547.7	512.1	464.6	402.8	352.9	344.6	298.2
10°	754.5	743.8	728.3	709.3	684.4	626.2	566.7	486.0	406.3	400.4	327.9
12.5°	856.7	843.6	836.5	828.1	796.1	749.7	672.5	570.3	475.3	462.2	357.6
15°	933.9	927.9	920.8	920.8	904.2	859.0	779.4	660.6	541.8	526.3	395.7
17.5°	995.7	988.5	987.3	994.5	989.7	957.6	882.8	747.3	610.7	598.8	434.9
20°	1064.6	1055.1	1055.1	1061.0	1059.8	1042.0	976.7	847.1	691.5	670.1	480.0
22.5°	1162.0	1156.1	1151.3	1141.8	1134.7	1118.0	1061.0	944.6	768.7	748.5	526.3
25°	1292.7	1285.6	1264.2	1247.5	1216.7	1191.7	1143.0	1031.3	847.1	824.6	571.5
27.5°	1419.8	1405.6	1385.4	1364.0	1329.5	1286.8	1226.2	1113.3	929.1	905.4	617.8
30°	1554.1	1543.4	1518.4	1484.0	1441.2	1393.7	1321.2	1211.9	1023.0	996.9	667.7
32.5°	1661.0	1644.4	1621.8	1588.5	1544.6	1511.3	1432.9	1320.0	1131.1	1096.7	720.0
35°	1746.6	1733.5	1703.8	1671.7	1638.4	1628.9	1543.4	1407.9	1217.8	1185.8	775.9
37.5°	1801.2	1788.2	1763.2	1731.1	1718.1	1734.7	1678.8	1528.0	1334.3	1293.9	840.0
40°	1844.0	1828.6	1808.4	1794.1	1789.3	1835.7	1829.7	1683.6	1487.6	1463.8	927.9
42.5°	1874.9	1859.4	1846.4	1845.2	1876.1	1966.4	2032.9	1901.0	1701.4	1652.7	1040.8
45°	1835.7	1822.6	1829.7	1871.3	1946.2	2088.8	2278.9	2208.8	1959.2	1924.8	1221.4
47.5°	1726.4	1718.1	1750.1	1826.2	1965.2	2163.6	2516.5	2546.2	2327.6	2275.3	1455.5
50°	1555.3	1554.1	1605.2	1708.5	1905.8	2192.1	2636.5	2870.6	2705.4	2651.9	1645.6
52.5°	1323.6	1318.8	1393.7	1537.5	1765.6	2138.7	2659.1	3000.1	2924.0	2861.0	1765.6
55°	1061.0	1050.3	1139.4	1297.5	1558.8	1983.0	2598.5	3028.6	3028.6	2971.5	1854.7
57.5°	746.2	762.8	836.5	1026.6	1303.4	1750.1	2448.8	3002.4	3134.3	3085.6	1974.7
60°	470.5	477.6	558.4	711.7	988.5	1438.8	2181.4	2889.6	3218.7	3190.2	2070.9
62.5°	270.9	293.5	333.9	450.3	682.0	1081.2	1851.1	2686.4	3250.8	3238.9	2133.9
65°	165.2	167.5	186.5	254.3	419.4	737.8	1481.6	2403.6	3178.3	3189.0	2122.0
67.5°	123.6	123.6	129.5	160.4	238.8	469.3	1093.1	2060.2	2946.6	2981.0	2010.3
70°	106.9	106.9	108.1	117.6	147.3	278.0	722.4	1661.0	2526.0	2522.4	1661.0
72.5°	84.4	87.9	95.1	99.8	111.7	162.8	423.0	1160.8	1754.9	1796.5	1069.3
75°	67.7	68.9	78.4	86.7	93.9	110.5	199.6	645.2	920.8	920.8	470.5
77.5°	52.3	54.7	60.6	68.9	78.4	78.4	83.2	249.5	356.4	344.6	139.0
80°	33.3	34.5	44.0	54.7	65.3	55.8	45.1	83.2	97.4	93.9	38.0
82.5°	20.2	21.4	28.5	44.0	44.0	30.9	28.5	34.5	30.9	28.5	15.4
85°	5.9	7.1	20.2	28.5	25.0	11.9	14.3	15.4	14.3	13.1	8.3
87.5°	1.2	1.2	5.9	7.1	5.9	5.9	4.8	5.9	5.9	5.9	3.6
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: P573049
 CATALOG NUMBER: ARCH-S-PA2-30-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1
2.5°	250.7	245.9	236.4	229.3	223.4	217.4	212.7	211.5	209.1	209.1	207.9
5°	261.4	250.7	232.9	221.0	211.5	203.2	196.0	188.9	186.5	184.2	185.4
7.5°	278.0	261.4	236.4	218.6	202.0	183.0	167.5	154.5	145.0	142.6	139.0
10°	299.4	274.5	242.4	213.9	183.0	149.7	128.3	115.2	110.5	104.6	105.7
12.5°	320.8	289.9	247.1	200.8	150.9	117.6	99.8	91.5	87.9	86.7	87.9
15°	345.7	306.5	244.8	177.0	121.2	95.1	84.4	80.8	78.4	78.4	77.2
17.5°	370.7	320.8	236.4	146.1	97.4	80.8	76.0	72.5	70.1	68.9	68.9
20°	398.0	333.9	217.4	116.4	80.8	73.7	68.9	64.2	61.8	61.8	61.8
22.5°	426.5	343.4	192.5	92.7	72.5	65.3	60.6	57.0	54.7	54.7	54.7
25°	451.5	348.1	162.8	77.2	66.5	59.4	54.7	51.1	49.9	48.7	48.7
27.5°	475.3	346.9	131.9	67.7	59.4	53.5	48.7	46.3	44.0	44.0	44.0
30°	499.0	339.8	104.6	61.8	54.7	47.5	44.0	41.6	40.4	39.2	39.2
32.5°	519.2	327.9	82.0	57.0	49.9	42.8	39.2	36.8	36.8	35.6	35.6
35°	539.4	310.1	68.9	53.5	45.1	39.2	35.6	34.5	33.3	33.3	33.3
37.5°	560.8	287.5	60.6	48.7	40.4	35.6	33.3	32.1	30.9	29.7	29.7
40°	586.9	265.0	57.0	45.1	36.8	32.1	29.7	28.5	27.3	27.3	27.3
42.5°	628.5	245.9	53.5	40.4	33.3	29.7	27.3	25.0	25.0	23.8	23.8
45°	706.9	238.8	49.9	36.8	30.9	26.1	25.0	22.6	21.4	21.4	21.4
47.5°	809.1	240.0	46.3	33.3	28.5	23.8	22.6	21.4	19.0	19.0	19.0
50°	893.5	234.1	42.8	30.9	25.0	22.6	20.2	19.0	17.8	17.8	17.8
52.5°	926.8	223.4	39.2	28.5	23.8	20.2	19.0	17.8	16.6	16.6	16.6
55°	960.0	218.6	35.6	25.0	21.4	20.2	17.8	16.6	15.4	14.3	14.3
57.5°	1020.6	221.0	32.1	23.8	20.2	19.0	16.6	14.3	11.9	10.7	10.7
60°	1052.7	212.7	29.7	21.4	19.0	17.8	14.3	10.7	8.3	7.1	7.1
62.5°	1025.4	188.9	27.3	20.2	17.8	15.4	10.7	8.3	5.9	3.6	3.6
65°	949.3	155.6	25.0	19.0	15.4	11.9	9.5	5.9	3.6	2.4	2.4
67.5°	853.1	122.4	22.6	17.8	14.3	10.7	8.3	4.8	2.4	1.2	1.2
70°	689.1	87.9	21.4	16.6	13.1	9.5	7.1	4.8	2.4	1.2	1.2
72.5°	444.4	57.0	19.0	15.4	11.9	9.5	5.9	3.6	2.4	1.2	1.2
75°	205.5	38.0	17.8	14.3	11.9	8.3	5.9	4.8	2.4	1.2	1.2
77.5°	60.6	27.3	16.6	13.1	10.7	8.3	5.9	4.8	2.4	1.2	1.2
80°	25.0	19.0	13.1	11.9	10.7	8.3	5.9	4.8	2.4	1.2	1.2
82.5°	11.9	8.3	5.9	4.8	5.9	5.9	4.8	4.8	2.4	1.2	1.2
85°	5.9	3.6	2.4	2.4	2.4	1.2	1.2	2.4	2.4	1.2	1.2
87.5°	3.6	2.4	2.4	2.4	1.2	1.2	1.2	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)