

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: P573382

Luminaire Tested: **ARCH-S-PA2-70-730-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573382
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-PA2-70-730-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 725mA 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: 7501 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

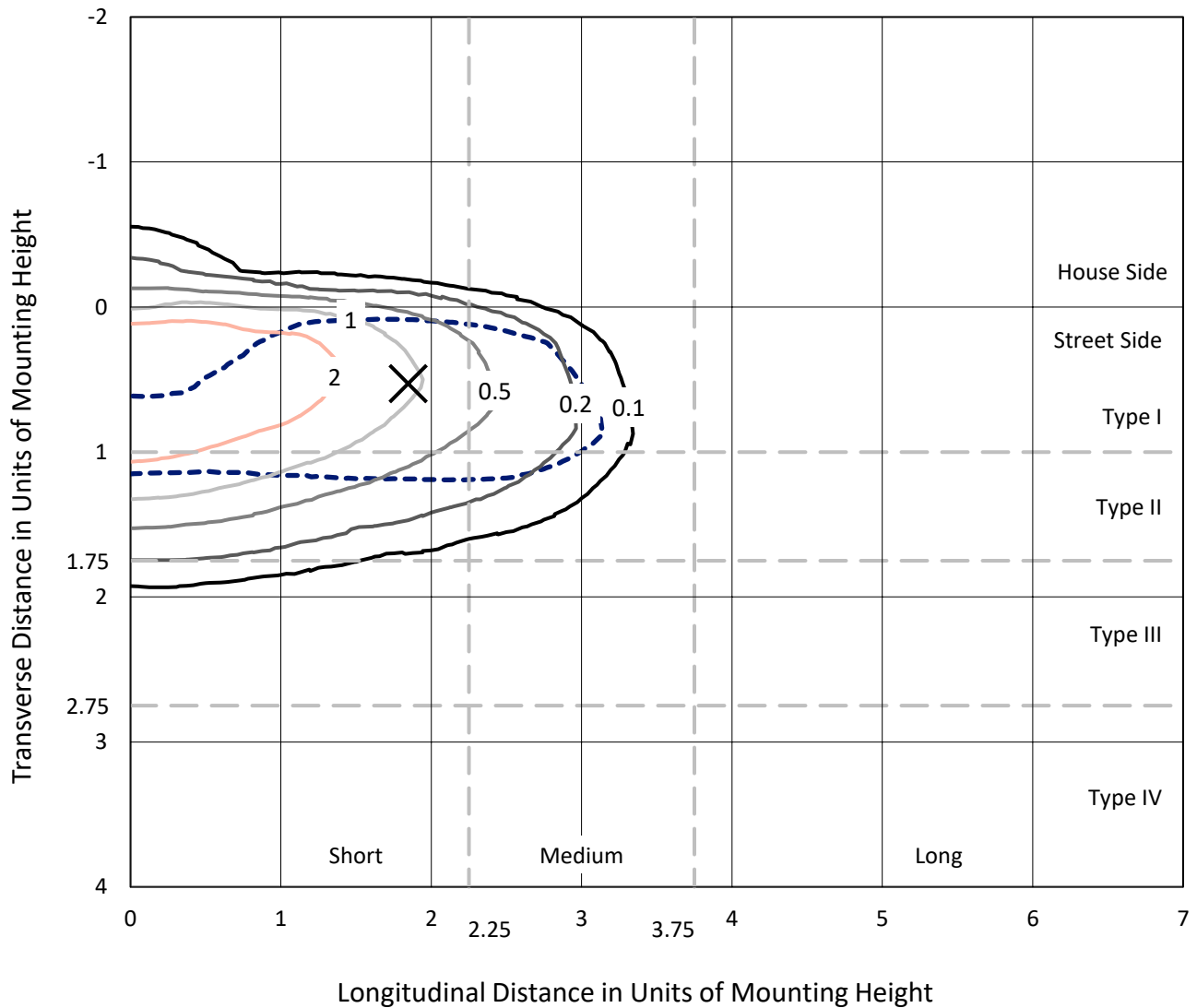
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573382
 CATALOG NUMBER: ARCH-S-PA2-70-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

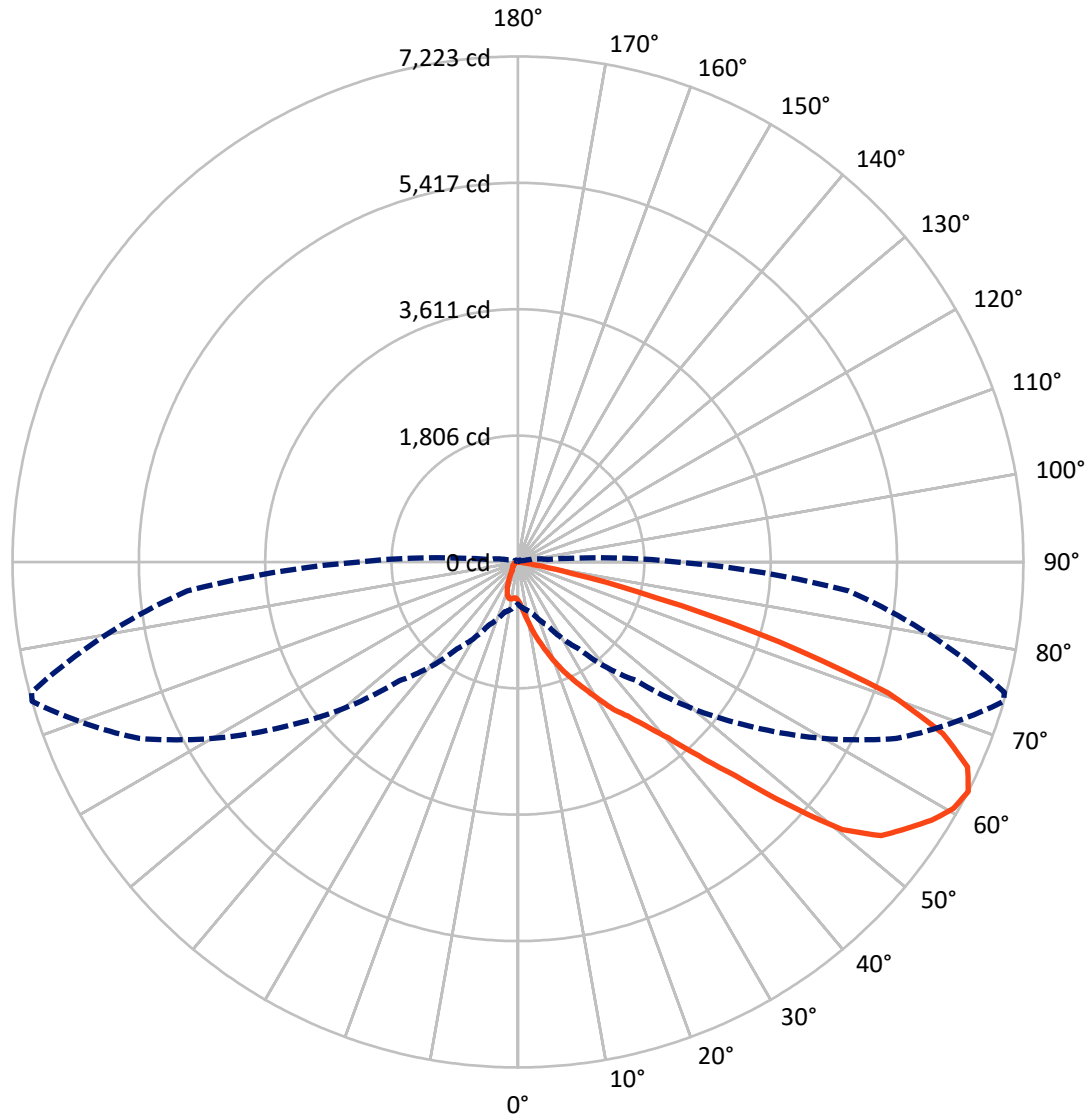
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

REPORT NUMBER: P573382
CATALOG NUMBER: ARCH-S-PA2-70-730-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P573382
 CATALOG NUMBER: ARCH-S-PA2-70-730-U-T2R-HSS

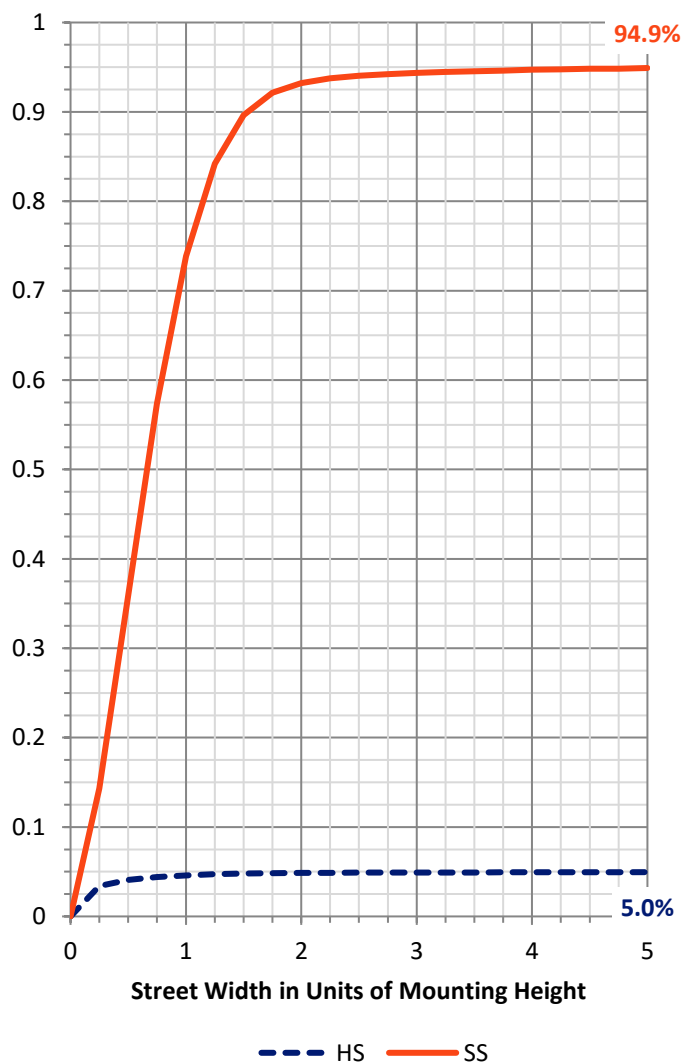
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	374.1	0.0	374.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7126.9	0.0	7126.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	7501.0	0.0	7501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	0.9
10°-20°	288.4	3.8
20°-30°	619.0	8.3
30°-40°	1085.7	14.5
40°-50°	1683.1	22.4
50°-60°	1940.3	25.9
60°-70°	1363.1	18.2
70°-80°	424.7	5.7
80°-90°	28.1	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°	7501.0	100.0
0°-180°	7501.0	100.0

Coefficient of Utilization



REPORT NUMBER: P573382

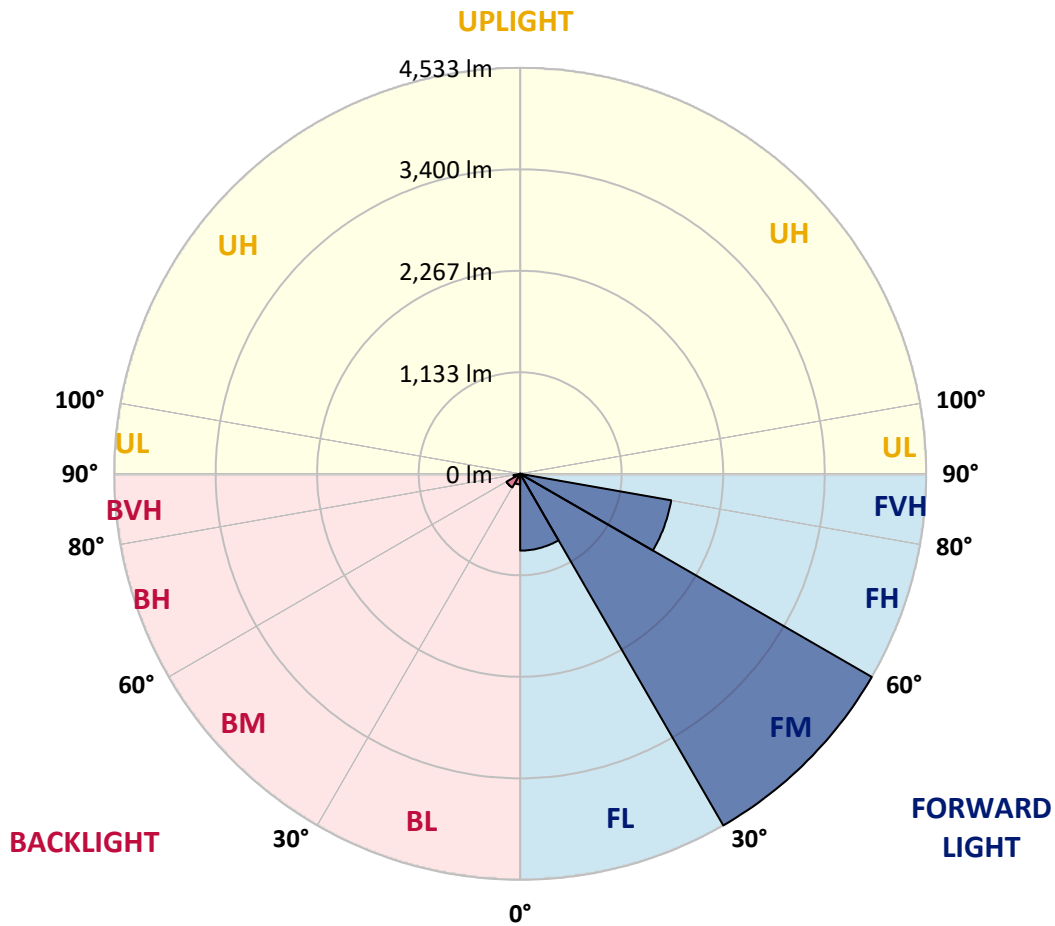
CATALOG NUMBER: ARCH-S-PA2-70-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	857.4	11.4			
FM (30°-60°)	4533.2	60.4			
FH (60°-80°)	1712.1	22.8			G1/1800
FVH (80°-90°)	24.2	0.3			G1/100
BL (0°-30°)	118.7	1.6	B1/500		
BM (30°-60°)	175.8	2.3	B0/220		
BH (60°-80°)	75.7	1.0	B0/110		G0/110
BVH (80°-90°)	3.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P573382

CATALOG NUMBER: ARCH-S-PA2-70-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1
2.5°	762.9	749.7	733.9	720.7	694.3	675.8	652.1	625.7	596.6	594.0	570.2
5°	1069.2	1029.6	1029.6	995.2	955.6	884.4	818.4	736.5	675.8	670.5	607.2
7.5°	1383.3	1351.6	1333.1	1280.3	1217.0	1137.8	1032.2	894.9	784.0	765.6	662.6
10°	1676.3	1652.6	1618.2	1576.0	1520.6	1391.2	1259.2	1079.7	902.8	889.6	728.6
12.5°	1903.4	1874.3	1858.5	1840.0	1768.7	1665.8	1494.2	1267.1	1056.0	1026.9	794.6
15°	2075.0	2061.8	2045.9	2045.9	2009.0	1908.6	1731.8	1467.8	1203.8	1169.5	879.1
17.5°	2212.2	2196.4	2193.7	2209.6	2199.0	2127.7	1961.4	1660.5	1356.9	1330.5	966.2
20°	2365.3	2344.2	2344.2	2357.4	2354.8	2315.2	2170.0	1882.2	1536.4	1488.9	1066.5
22.5°	2581.8	2568.6	2558.0	2536.9	2521.1	2484.1	2357.4	2098.7	1708.0	1663.1	1169.5
25°	2872.2	2856.4	2808.8	2771.9	2703.2	2647.8	2539.6	2291.4	1882.2	1832.1	1269.8
27.5°	3154.7	3123.0	3078.1	3030.6	2954.0	2859.0	2724.4	2473.6	2064.4	2011.6	1372.7
30°	3453.0	3429.2	3373.8	3297.2	3202.2	3096.6	2935.6	2692.7	2272.9	2214.9	1483.6
32.5°	3690.6	3653.6	3603.4	3529.5	3431.9	3357.9	3183.7	2932.9	2513.2	2436.6	1599.8
35°	3880.6	3851.6	3785.6	3714.3	3640.4	3619.3	3429.2	3128.3	2705.9	2634.6	1723.8
37.5°	4002.1	3973.0	3917.6	3846.3	3817.3	3854.2	3730.2	3394.9	2964.6	2874.8	1866.4
40°	4097.1	4062.8	4017.9	3986.2	3975.7	4078.6	4065.4	3740.7	3305.1	3252.3	2061.8
42.5°	4165.7	4131.4	4102.4	4099.7	4168.4	4369.0	4516.8	4223.8	3780.3	3672.1	2312.5
45°	4078.6	4049.6	4065.4	4157.8	4324.1	4640.9	5063.3	4907.5	4353.2	4276.6	2713.8
47.5°	3835.8	3817.3	3888.6	4057.5	4366.4	4807.2	5591.3	5657.3	5171.5	5055.4	3233.9
50°	3455.6	3453.0	3566.5	3796.2	4234.4	4870.6	5857.9	6378.0	6011.0	5892.2	3656.2
52.5°	2940.8	2930.3	3096.6	3416.0	3922.9	4751.8	5908.1	6665.7	6496.8	6356.8	3922.9
55°	2357.4	2333.7	2531.7	2882.8	3463.5	4406.0	5773.4	6729.1	6729.1	6602.4	4120.9
57.5°	1657.8	1694.8	1858.5	2280.9	2896.0	3888.6	5440.8	6671.0	6964.0	6855.8	4387.5
60°	1045.4	1061.2	1240.7	1581.3	2196.4	3196.9	4846.8	6420.2	7151.4	7088.1	4601.3
62.5°	601.9	652.1	741.8	1000.5	1515.3	2402.3	4112.9	5968.8	7222.7	7196.3	4741.2
65°	366.9	372.2	414.5	564.9	931.9	1639.4	3291.9	5340.5	7061.7	7085.5	4714.8
67.5°	274.5	274.5	287.7	356.4	530.6	1042.8	2428.7	4577.6	6546.9	6623.5	4466.7
70°	237.6	237.6	240.2	261.3	327.3	617.7	1605.1	3690.6	5612.4	5604.5	3690.6
72.5°	187.4	195.4	211.2	221.8	248.1	361.7	939.8	2579.2	3899.1	3991.5	2375.9
75°	150.5	153.1	174.2	192.7	208.6	245.5	443.5	1433.5	2045.9	2045.9	1045.4
77.5°	116.2	121.4	134.6	153.1	174.2	174.2	184.8	554.4	792.0	765.6	308.9
80°	73.9	76.6	97.7	121.4	145.2	124.1	100.3	184.8	216.5	208.6	84.5
82.5°	44.9	47.5	63.4	97.7	97.7	68.6	63.4	76.6	68.6	63.4	34.3
85°	13.2	15.8	44.9	63.4	55.4	26.4	31.7	34.3	31.7	29.0	18.5
87.5°	2.6	2.6	13.2	15.8	13.2	13.2	10.6	13.2	13.2	13.2	7.9
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: P573382

CATALOG NUMBER: ARCH-S-PA2-70-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1
2.5°	557.0	546.5	525.3	509.5	496.3	483.1	472.5	469.9	464.6	464.6	462.0
5°	580.8	557.0	517.4	491.0	469.9	451.4	435.6	419.7	414.5	409.2	411.8
7.5°	617.7	580.8	525.3	485.7	448.8	406.5	372.2	343.2	322.1	316.8	308.9
10°	665.3	609.8	538.5	475.2	406.5	332.6	285.1	256.1	245.5	232.3	234.9
12.5°	712.8	644.1	549.1	446.1	335.3	261.3	221.8	203.3	195.4	192.7	195.4
15°	768.2	681.1	543.8	393.3	269.3	211.2	187.4	179.5	174.2	174.2	171.6
17.5°	823.6	712.8	525.3	324.7	216.5	179.5	169.0	161.0	155.8	153.1	153.1
20°	884.4	741.8	483.1	258.7	179.5	163.7	153.1	142.6	137.3	137.3	137.3
22.5°	947.7	762.9	427.7	205.9	161.0	145.2	134.6	126.7	121.4	121.4	121.4
25°	1003.2	773.5	361.7	171.6	147.8	132.0	121.4	113.5	110.9	108.2	108.2
27.5°	1056.0	770.8	293.0	150.5	132.0	118.8	108.2	103.0	97.7	97.7	97.7
30°	1108.8	755.0	232.3	137.3	121.4	105.6	97.7	92.4	89.8	87.1	87.1
32.5°	1153.6	728.6	182.2	126.7	110.9	95.0	87.1	81.8	81.8	79.2	79.2
35°	1198.5	689.0	153.1	118.8	100.3	87.1	79.2	76.6	73.9	73.9	73.9
37.5°	1246.0	638.9	134.6	108.2	89.8	79.2	73.9	71.3	68.6	66.0	66.0
40°	1304.1	588.7	126.7	100.3	81.8	71.3	66.0	63.4	60.7	60.7	60.7
42.5°	1396.5	546.5	118.8	89.8	73.9	66.0	60.7	55.4	55.4	52.8	52.8
45°	1570.7	530.6	110.9	81.8	68.6	58.1	55.4	50.2	47.5	47.5	47.5
47.5°	1797.8	533.3	103.0	73.9	63.4	52.8	50.2	47.5	42.2	42.2	42.2
50°	1985.2	520.1	95.0	68.6	55.4	50.2	44.9	42.2	39.6	39.6	39.6
52.5°	2059.1	496.3	87.1	63.4	52.8	44.9	42.2	39.6	37.0	37.0	37.0
55°	2133.0	485.7	79.2	55.4	47.5	44.9	39.6	37.0	34.3	31.7	31.7
57.5°	2267.7	491.0	71.3	52.8	44.9	42.2	37.0	31.7	26.4	23.8	23.8
60°	2338.9	472.5	66.0	47.5	42.2	39.6	31.7	23.8	18.5	15.8	15.8
62.5°	2278.2	419.7	60.7	44.9	39.6	34.3	23.8	18.5	13.2	7.9	7.9
65°	2109.3	345.8	55.4	42.2	34.3	26.4	21.1	13.2	7.9	5.3	5.3
67.5°	1895.4	271.9	50.2	39.6	31.7	23.8	18.5	10.6	5.3	2.6	2.6
70°	1531.1	195.4	47.5	37.0	29.0	21.1	15.8	10.6	5.3	2.6	2.6
72.5°	987.3	126.7	42.2	34.3	26.4	21.1	13.2	7.9	5.3	2.6	2.6
75°	456.7	84.5	39.6	31.7	26.4	18.5	13.2	10.6	5.3	2.6	2.6
77.5°	134.6	60.7	37.0	29.0	23.8	18.5	13.2	10.6	5.3	2.6	2.6
80°	55.4	42.2	29.0	26.4	23.8	18.5	13.2	10.6	5.3	2.6	2.6
82.5°	26.4	18.5	13.2	10.6	13.2	13.2	10.6	10.6	5.3	2.6	2.6
85°	13.2	7.9	5.3	5.3	5.3	2.6	2.6	5.3	5.3	2.6	2.6
87.5°	7.9	5.3	5.3	5.3	2.6	2.6	2.6	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)