

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: P265575

Luminaire Tested: **ARCH-L-AF72-90-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-90-D-U-T2U-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7849.9 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 93
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: 28.75 FT

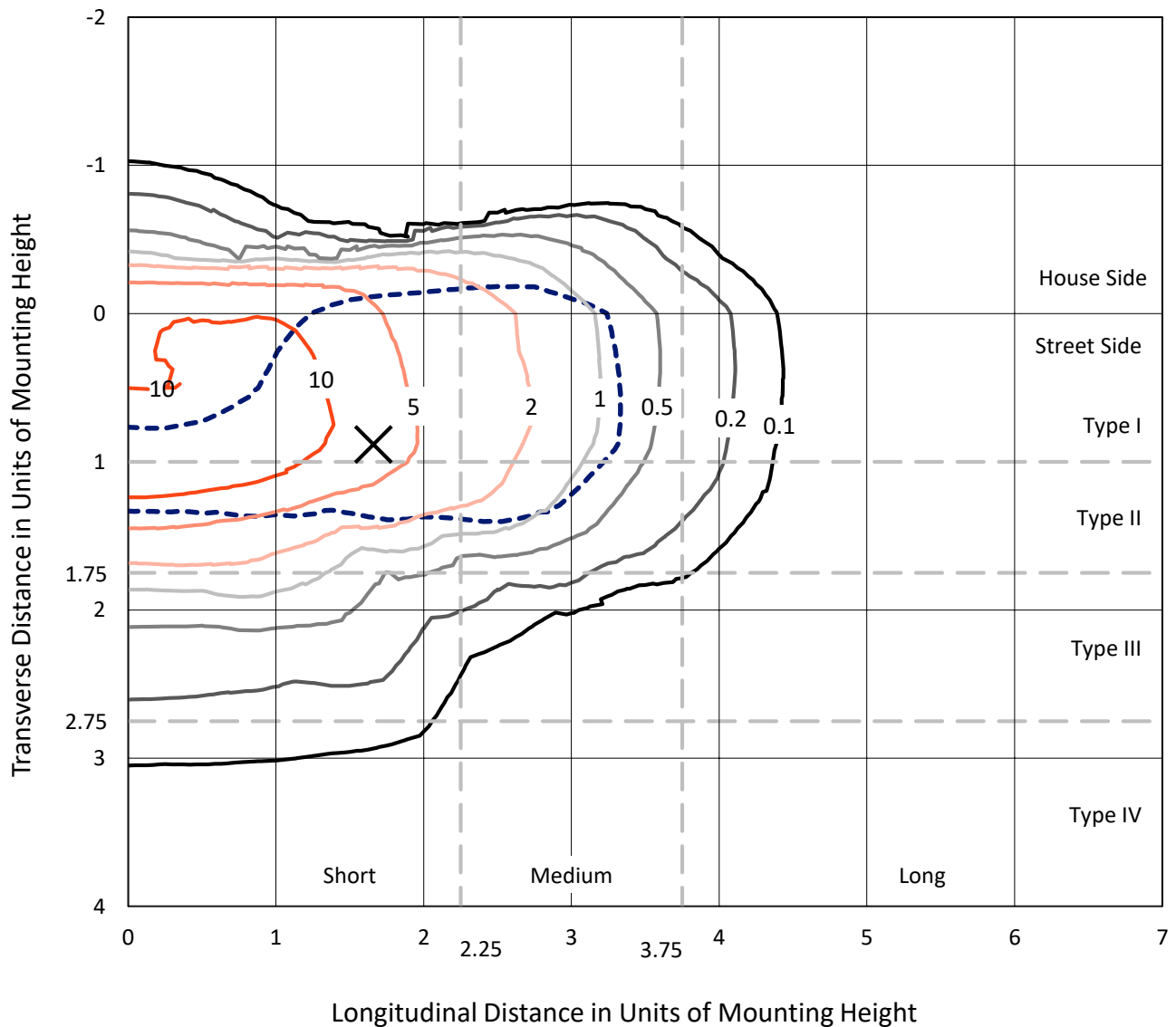


REPORT NUMBER: P265575

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T2U-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

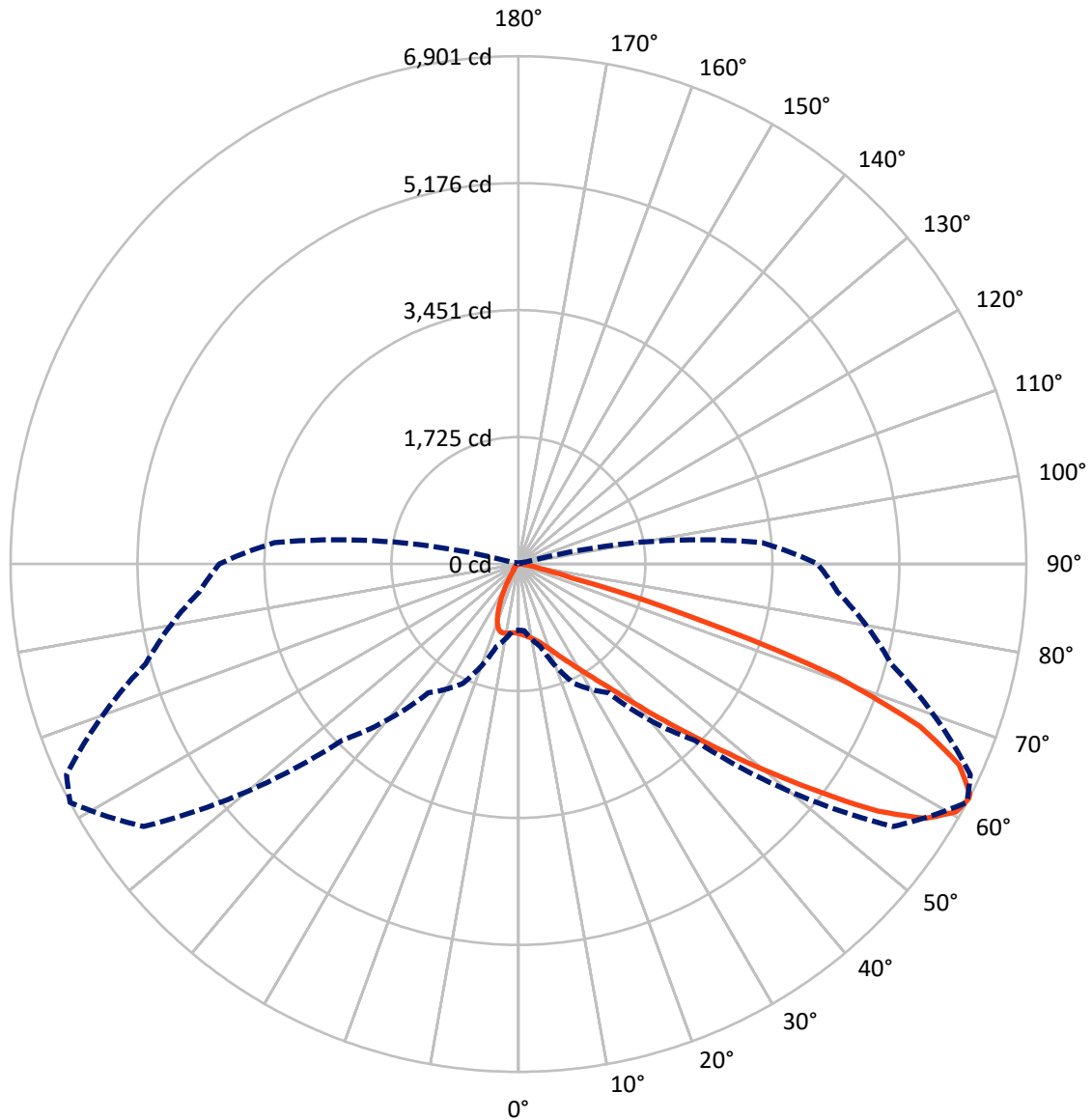


Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P265575

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T2U-7027-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

REPORT NUMBER: P265575

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T2U-7027-HSS

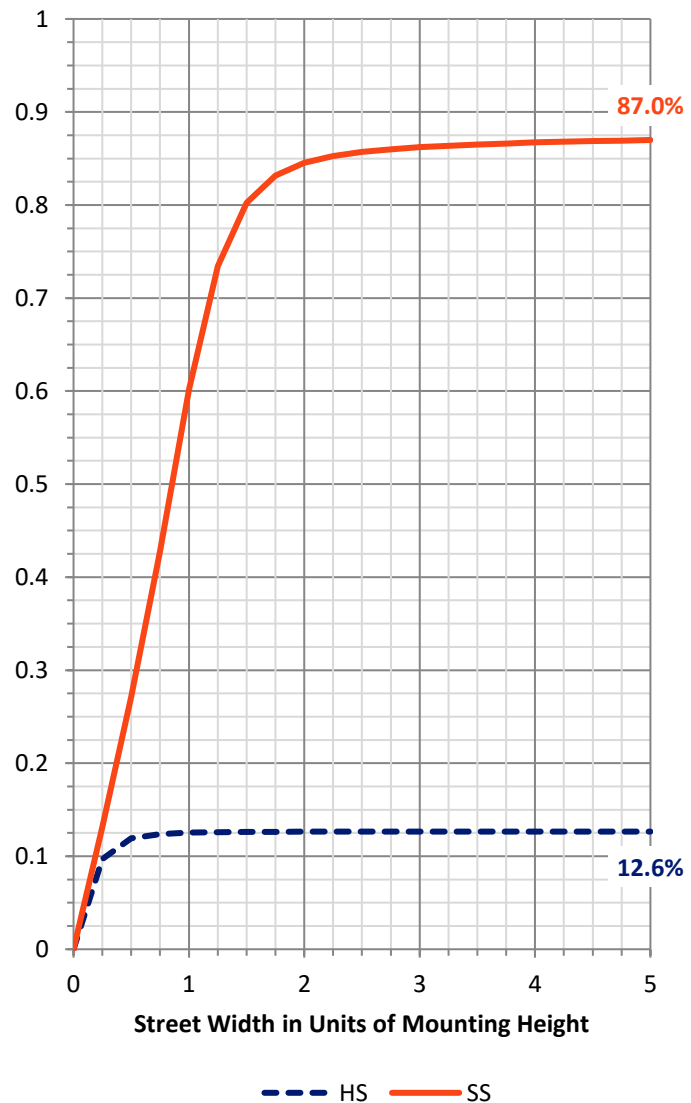
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1003.7	0.0	1003.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6846.2	0.0	6846.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	7849.9	0.0	7849.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	1.2
10°-20°	254.1	3.2
20°-30°	426.8	5.4
30°-40°	818.1	10.4
40°-50°	1671.0	21.3
50°-60°	2211.4	28.2
60°-70°	1717.9	21.9
70°-80°	620.1	7.9
80°-90°	39.5	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°	7849.9	100.0
0°-180°	7849.9	100.0



REPORT NUMBER: P265575

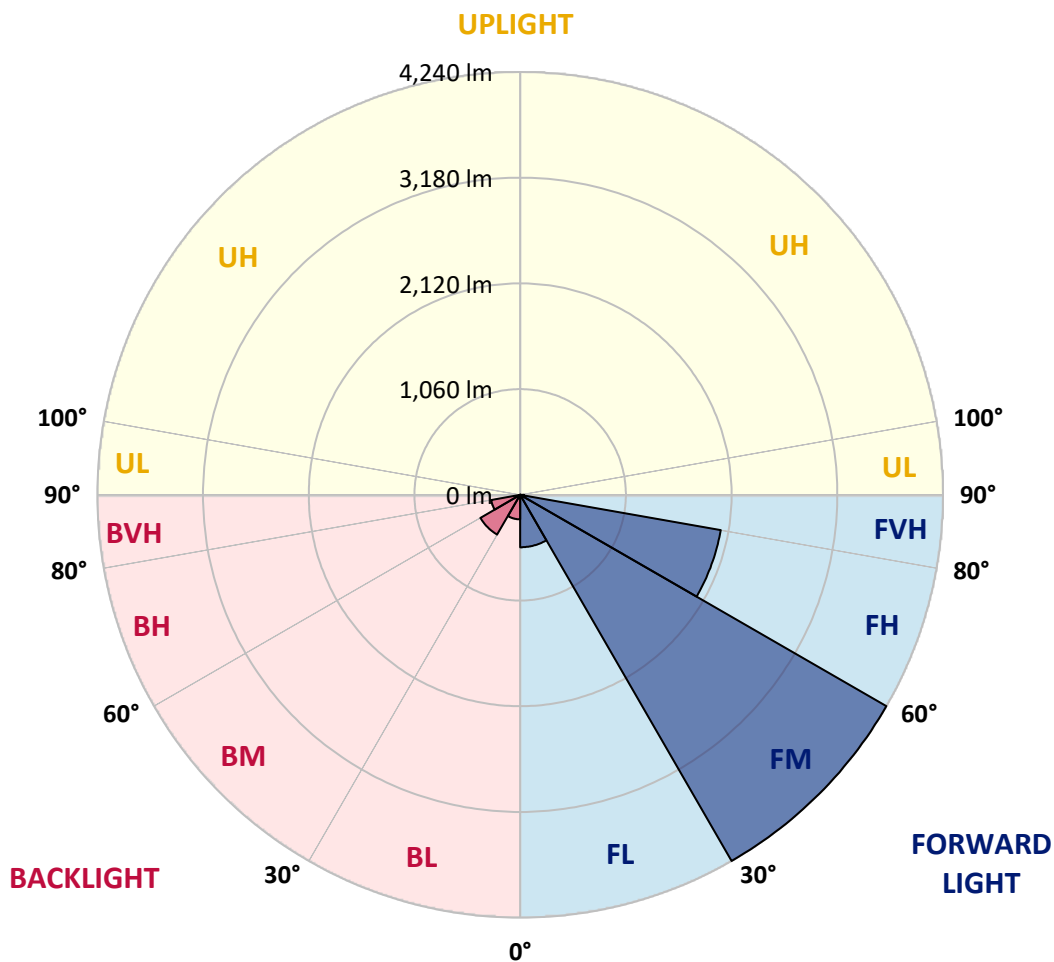
CATALOG NUMBER: ARCH-L-AF72-90-D-U-T2U-7027-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	526.3	6.7			
FM	(30°-60°)	4239.8	54.0			
FH	(60°-80°)	2042.4	26.0			G2/5000
FVH	(80°-90°)	37.8	0.5			G1/100
BL	(0°-30°)	245.6	3.1	B1/500		
BM	(30°-60°)	460.8	5.9	B1/1000		
BH	(60°-80°)	295.5	3.8	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P265575

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T2U-7027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	945.6	945.6	945.6	945.6	945.6	945.6	945.6	945.6	945.6	945.6	945.6
2.5°	970.7	968.8	966.8	964.9	964.9	963.1	961.0	957.2	953.3	949.5	947.5
5°	988.0	986.2	984.3	986.2	984.3	984.3	982.2	978.4	974.7	968.8	963.1
7.5°	1001.6	999.6	997.7	999.6	1001.6	1003.5	1005.5	1001.6	999.6	992.0	986.2
10°	1018.9	1017.1	1015.1	1018.9	1018.9	1028.6	1030.5	1028.6	1026.7	1020.8	1011.2
12.5°	1044.0	1045.9	1045.9	1049.8	1053.7	1065.3	1069.2	1063.4	1063.4	1055.6	1044.0
15°	1090.4	1090.4	1090.4	1094.2	1096.1	1111.7	1115.4	1109.6	1113.4	1100.1	1088.4
17.5°	1134.7	1136.6	1140.6	1148.3	1148.3	1161.8	1169.5	1169.5	1177.1	1159.8	1144.4
20°	1179.1	1181.0	1186.8	1204.2	1204.2	1221.5	1235.1	1240.9	1248.6	1231.2	1204.2
22.5°	1227.4	1227.4	1237.1	1264.0	1258.3	1293.0	1318.1	1327.8	1335.4	1312.3	1269.8
25°	1300.7	1293.0	1300.7	1325.8	1321.9	1370.2	1416.4	1426.1	1435.9	1408.8	1345.1
27.5°	1439.7	1428.0	1401.0	1403.1	1403.1	1458.9	1524.6	1538.1	1543.8	1520.7	1441.6
30°	1717.6	1717.6	1617.2	1549.7	1505.3	1555.4	1648.1	1671.2	1678.9	1644.2	1540.1
32.5°	2201.9	2201.9	2016.7	1844.8	1677.0	1677.0	1783.1	1825.6	1833.4	1792.7	1671.2
35°	2819.5	2815.6	2537.7	2302.3	1974.3	1850.7	1941.3	2012.8	2036.0	1981.9	1841.0
37.5°	3475.6	3450.6	3151.4	2881.3	2431.6	2128.7	2155.7	2250.2	2271.5	2227.1	2061.2
40°	4008.2	3979.3	3738.0	3512.4	3022.2	2572.4	2464.4	2551.2	2576.2	2514.5	2323.6
42.5°	4490.7	4419.3	4253.4	4091.3	3701.5	3340.5	2875.5	2910.1	2937.2	2871.6	2618.7
45°	4840.1	4730.0	4645.1	4594.9	4388.5	4183.9	3408.1	3338.6	3348.3	3267.2	2941.1
47.5°	4849.7	4772.4	4780.2	4911.5	4996.4	4988.6	4100.9	3853.9	3817.2	3682.2	3284.7
50°	4386.6	4430.9	4571.8	4946.2	5405.6	5683.3	4925.0	4463.7	4353.7	4110.6	3626.2
52.5°	3614.6	3684.0	3948.5	4579.5	5465.3	6140.8	5779.9	5160.5	4963.6	4535.2	3888.7
55°	2831.1	2835.0	3112.8	3755.5	5065.8	6223.7	6463.0	5926.6	5625.5	4857.4	4062.3
57.5°	1947.2	2053.3	2406.5	2838.9	4164.6	5810.7	6719.7	6520.9	6133.0	5056.2	4183.9
60°	1275.7	1281.4	1692.4	2192.4	2835.0	4728.0	6563.3	6835.6	6544.2	5173.9	4266.9
62°	899.4	908.9	1163.7	1791.0	2136.3	3388.8	6218.0	6901.0	6775.6	5243.3	4353.7
62.5°	833.6	841.4	1055.6	1690.5	2007.1	3039.4	6094.5	6885.7	6810.4	5266.6	4384.5
65°	611.7	611.7	690.8	1161.8	1470.5	1642.3	5164.3	6578.8	6764.1	5451.9	4500.4
67.5°	472.8	476.7	503.7	715.9	1109.6	995.9	3296.2	5887.9	6281.6	5725.8	4566.1
70°	407.2	405.2	424.5	474.8	800.8	662.0	1451.2	4594.9	5260.7	5656.4	4506.2
72.5°	301.0	303.0	347.4	416.9	557.7	430.4	656.1	2439.3	3411.9	4427.0	3861.6
75°	193.0	194.9	245.1	328.2	401.5	281.8	378.2	727.5	1397.3	2454.8	2362.2
77.5°	129.3	133.2	160.2	229.6	351.2	175.6	237.3	305.0	420.6	920.6	847.2
80°	86.9	86.9	102.2	154.4	221.9	146.7	127.4	202.7	218.1	285.7	142.8
82.5°	57.9	57.9	67.6	102.2	144.7	131.2	77.3	110.0	127.4	142.8	50.1
85°	34.8	34.8	46.4	63.7	94.5	73.3	50.1	61.8	65.7	90.6	26.9
87.5°	21.2	19.4	30.9	44.3	50.1	44.3	32.8	32.8	34.8	50.1	13.6
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: P265575

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T2U-7027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	945.6	945.6	945.6	945.6	945.6	945.6	945.6	945.6	945.6	945.6	945.6
2.5°	943.7	941.8	939.8	935.9	930.1	926.3	922.5	918.5	914.7	914.7	920.6
5°	961.0	955.3	947.5	939.8	928.3	920.6	914.7	907.0	903.2	903.2	905.1
7.5°	982.2	976.5	963.1	949.5	932.1	918.5	905.1	887.7	874.2	868.4	874.2
10°	1005.5	997.7	978.4	957.2	937.9	903.2	858.8	804.7	758.3	737.1	746.9
12.5°	1034.4	1024.7	1001.6	972.7	928.3	843.4	733.3	608.0	528.8	492.1	499.8
15°	1076.9	1063.4	1030.5	986.2	887.7	704.5	524.9	380.3	306.9	276.0	279.8
17.5°	1127.1	1109.6	1065.3	982.2	783.5	507.5	312.6	221.9	191.1	183.3	183.3
20°	1181.0	1157.9	1100.1	953.3	625.3	318.4	194.9	169.8	158.2	152.4	152.4
22.5°	1237.1	1206.2	1129.0	885.8	445.7	198.7	160.2	142.8	129.3	123.4	123.4
25°	1304.6	1264.0	1157.9	768.1	283.7	160.2	137.0	119.7	106.1	98.5	100.3
27.5°	1383.7	1331.6	1183.0	621.4	183.3	139.0	113.8	96.5	84.9	81.0	81.0
30°	1466.8	1404.9	1188.7	465.1	148.6	119.7	94.5	79.1	71.4	67.6	67.6
32.5°	1580.6	1499.5	1171.4	308.7	125.5	100.3	79.1	65.7	59.8	57.9	57.9
35°	1731.0	1623.0	1130.8	191.1	106.1	83.0	65.7	57.9	52.1	50.1	50.1
37.5°	1922.2	1794.8	1059.6	131.2	90.6	67.6	56.0	50.1	46.4	44.3	44.3
40°	2176.9	2003.2	966.8	113.8	77.3	57.9	48.2	44.3	40.6	40.6	40.6
42.5°	2447.1	2256.0	847.2	100.3	65.7	50.1	42.5	38.5	36.7	34.8	34.8
45°	2742.3	2514.5	698.6	88.8	56.0	44.3	38.5	32.8	30.9	30.9	30.9
47.5°	3035.6	2781.0	536.5	77.3	48.2	38.5	32.8	28.9	26.9	25.2	25.2
50°	3336.7	3022.2	393.6	67.6	42.5	34.8	28.9	25.2	21.2	19.4	19.4
52.5°	3554.8	3166.9	287.5	57.9	36.7	28.9	23.1	19.4	15.5	13.6	13.6
55°	3714.9	3255.6	210.4	48.2	32.8	25.2	19.4	15.5	11.6	11.6	9.6
57.5°	3840.3	3298.0	158.2	42.5	28.9	21.2	15.5	11.6	9.6	7.7	7.7
60°	3936.9	3300.1	117.7	34.8	25.2	17.3	11.6	7.7	5.7	5.7	5.7
62°	4064.2	3325.2	96.5	28.9	23.1	15.5	9.6	5.7	3.9	1.9	1.9
62.5°	4100.9	3334.8	92.6	28.9	21.2	13.6	7.7	5.7	3.9	1.9	1.9
65°	4270.7	3352.1	71.4	23.1	17.3	11.6	5.7	3.9	0.0	0.0	0.0
67.5°	4425.1	3325.2	52.1	17.3	13.6	7.7	5.7	1.9	0.0	0.0	0.0
70°	4409.7	3139.8	36.7	11.6	9.6	5.7	3.9	0.0	0.0	0.0	0.0
72.5°	3634.0	2350.5	25.2	9.6	5.7	3.9	1.9	0.0	0.0	0.0	0.0
75°	2194.2	1028.6	17.3	5.7	5.7	3.9	1.9	0.0	0.0	0.0	0.0
77.5°	719.8	372.4	11.6	3.9	3.9	1.9	1.9	0.0	0.0	0.0	0.0
80°	117.7	61.8	5.7	3.9	3.9	1.9	1.9	0.0	0.0	0.0	0.0
82.5°	36.7	15.5	3.9	3.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	13.6	5.7	3.9	3.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	3.9	3.9	3.9	1.9	1.9	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)