

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: P258046

Luminaire Tested: **ARCH-L-AF72-100-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-100-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 440mA 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: 9409.4 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

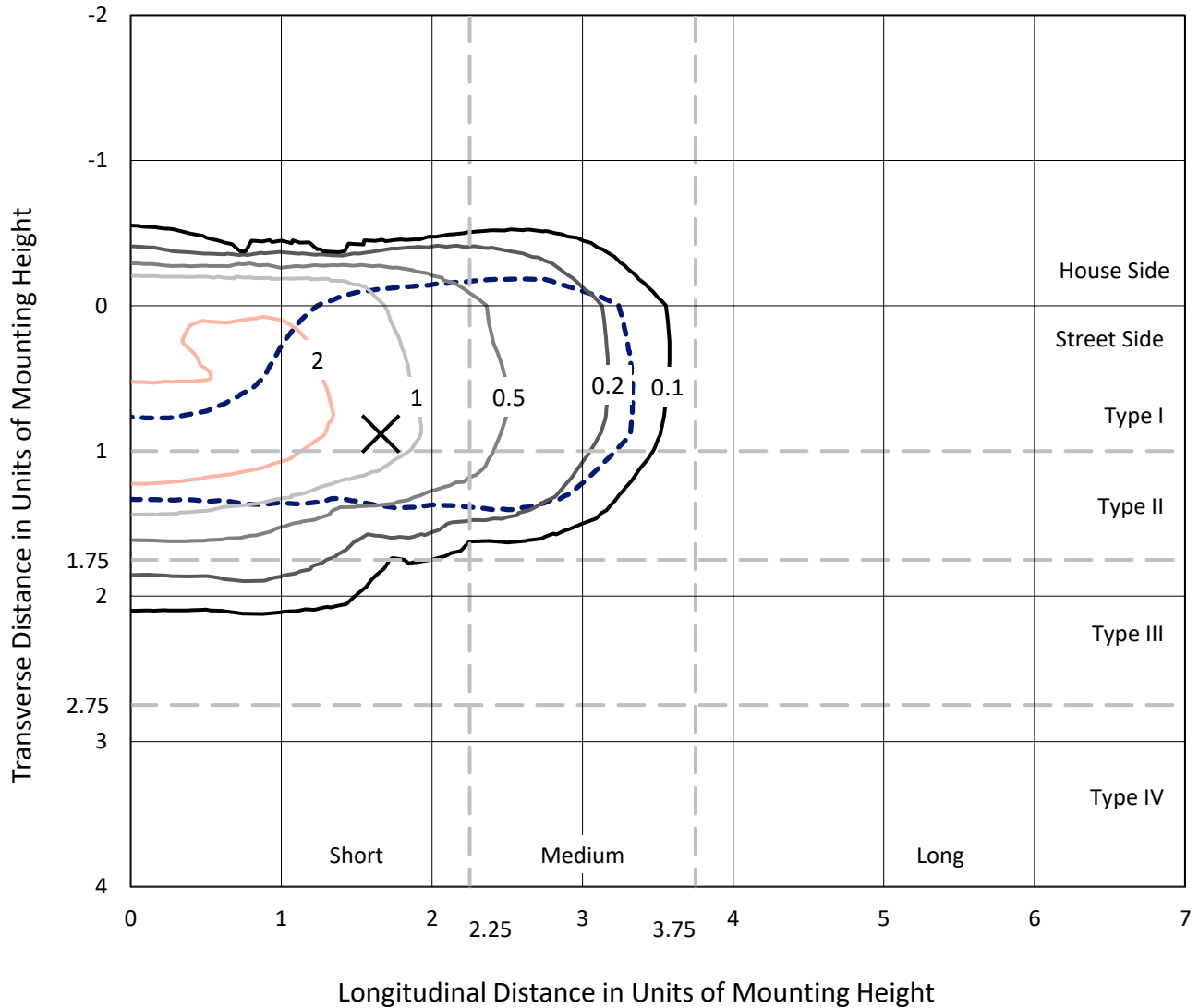
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

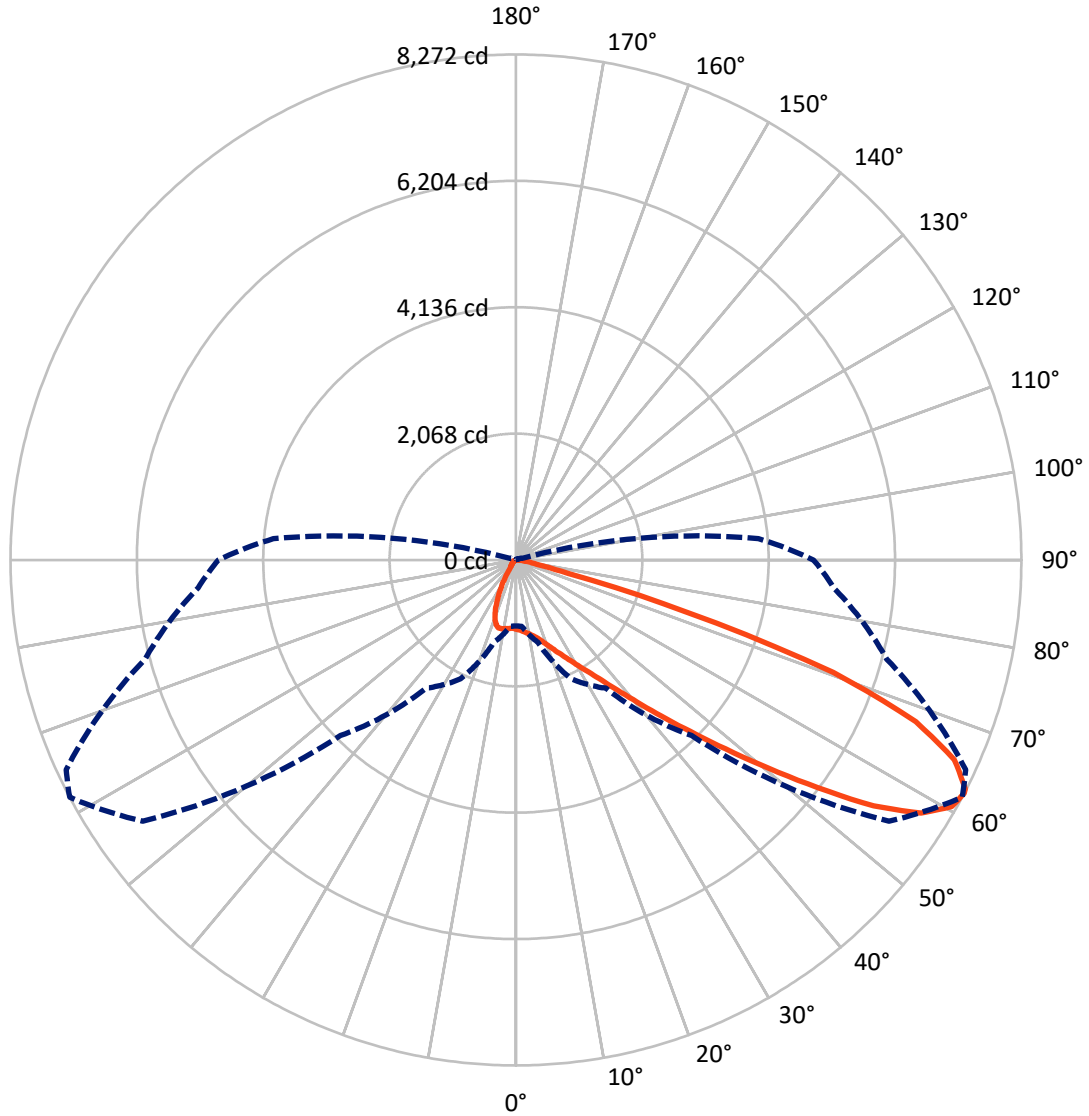
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

REPORT NUMBER: P258046
CATALOG NUMBER: ARCH-L-AF72-100-D-U-T2U-7030-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P258046

CATALOG NUMBER: ARCH-L-AF72-100-D-U-T2U-7030-HSS

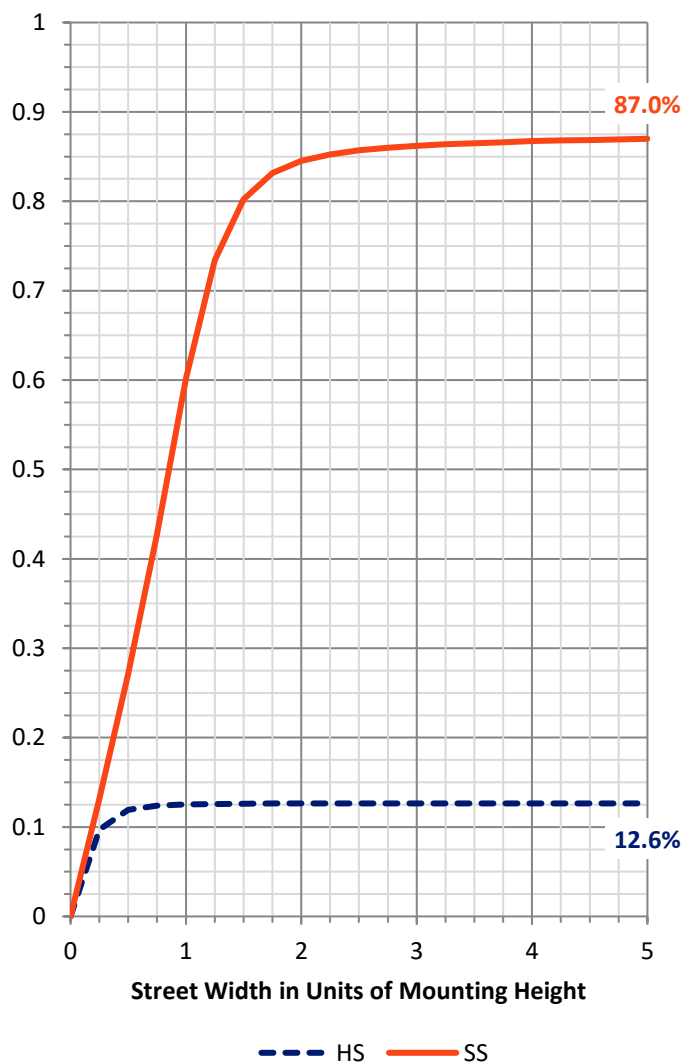
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1203.1	0.0	1203.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	8206.3	0.0	8206.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	9409.4	0.0	9409.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	1.2
10°-20°	304.6	3.2
20°-30°	511.6	5.4
30°-40°	980.7	10.4
40°-50°	2003.0	21.3
50°-60°	2650.7	28.2
60°-70°	2059.1	21.9
70°-80°	743.3	7.9
80°-90°	47.4	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°	9409.4	100.0
0°-180°	9409.4	100.0

Coefficient of Utilization



REPORT NUMBER: P258046

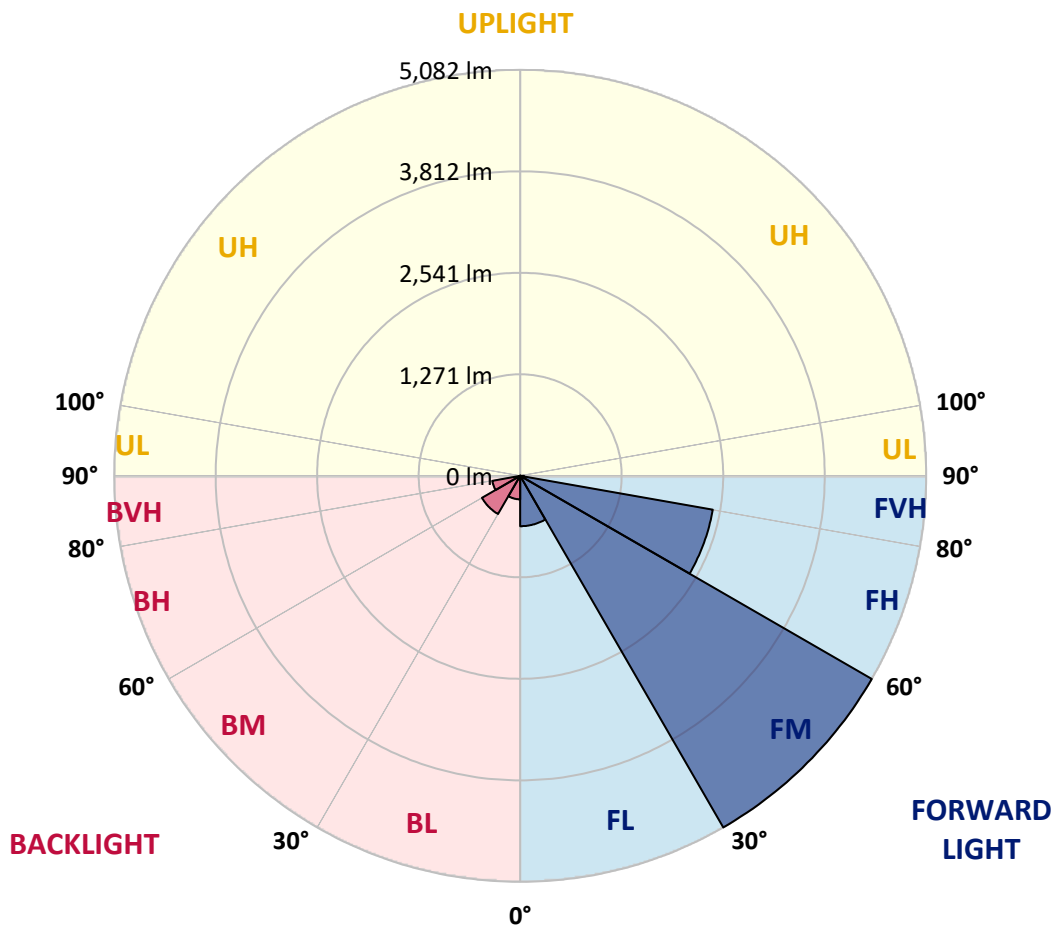
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.8	6.7			
FM (30°-60°)	5082.0	54.0			
FH (60°-80°)	2448.1	26.0			G2/5000
FVH (80°-90°)	45.3	0.5			G1/100
BL (0°-30°)	294.4	3.1	B1/500		
BM (30°-60°)	552.3	5.9	B1/1000		
BH (60°-80°)	354.3	3.8	B1/500		G1/500
BVH (80°-90°)	2.1	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: P258046

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4
2.5°	1163.6	1161.2	1158.9	1156.6	1156.6	1154.4	1152.0	1147.3	1142.8	1138.2	1135.8
5°	1184.4	1182.0	1179.8	1182.0	1179.8	1179.8	1177.5	1172.8	1168.2	1161.2	1154.4
7.5°	1200.5	1198.2	1196.0	1198.2	1200.5	1202.8	1205.2	1200.5	1198.2	1189.0	1182.0
10°	1221.4	1219.2	1216.7	1221.4	1221.4	1233.0	1235.2	1233.0	1230.7	1223.7	1212.1
12.5°	1251.4	1253.8	1253.8	1258.4	1263.0	1276.9	1281.5	1274.6	1274.6	1265.3	1251.4
15°	1307.0	1307.0	1307.0	1311.6	1314.0	1332.4	1337.0	1330.1	1334.7	1318.5	1304.7
17.5°	1360.2	1362.5	1367.2	1376.3	1376.3	1392.6	1401.8	1401.8	1411.1	1390.3	1371.8
20°	1413.4	1415.7	1422.7	1443.5	1443.5	1464.3	1480.5	1487.4	1496.7	1475.9	1443.5
22.5°	1471.1	1471.1	1482.7	1515.2	1508.3	1549.9	1579.9	1591.5	1600.7	1573.0	1522.1
25°	1559.1	1549.9	1559.1	1589.1	1584.6	1642.3	1697.9	1709.5	1721.1	1688.7	1612.3
27.5°	1725.6	1711.8	1679.5	1681.7	1681.7	1748.8	1827.5	1843.6	1850.7	1822.9	1727.9
30°	2058.8	2058.8	1938.5	1857.5	1804.3	1864.5	1975.5	2003.3	2012.5	1970.9	1845.9
32.5°	2639.3	2639.3	2417.4	2211.4	2010.2	2010.2	2137.4	2188.4	2197.5	2149.0	2003.3
35°	3379.6	3375.0	3041.9	2759.7	2366.4	2218.4	2327.1	2412.7	2440.5	2375.8	2206.8
37.5°	4166.2	4136.1	3777.5	3453.6	2914.7	2551.5	2583.9	2697.3	2722.6	2669.4	2470.6
40°	4804.5	4769.9	4480.7	4210.1	3622.5	3083.6	2954.1	3058.0	3088.2	3014.1	2785.1
42.5°	5382.8	5297.3	5098.4	4904.1	4436.8	4004.3	3446.7	3488.3	3520.8	3442.1	3139.0
45°	5801.5	5669.8	5568.0	5507.9	5260.3	5015.1	4085.2	4001.9	4013.4	3916.3	3525.4
47.5°	5813.1	5720.6	5729.9	5887.2	5988.9	5979.8	4915.6	4619.5	4575.6	4413.6	3937.1
50°	5258.0	5311.2	5480.0	5928.9	6479.4	6812.6	5903.4	5350.5	5218.7	4927.1	4346.6
52.5°	4332.6	4415.9	4732.9	5489.3	6551.0	7360.7	6928.1	6185.6	5949.6	5436.0	4661.2
55°	3393.5	3398.2	3731.2	4501.6	6072.2	7460.2	7747.0	7103.9	6743.1	5822.4	4869.3
57.5°	2334.1	2461.3	2884.6	3402.8	4991.9	6965.2	8054.7	7816.4	7351.5	6060.7	5015.1
60°	1529.1	1535.9	2028.7	2627.8	3398.2	5667.4	7867.3	8193.5	7844.2	6201.8	5114.5
62°	1078.0	1089.6	1394.9	2146.7	2560.7	4062.0	7453.2	8272.1	8121.8	6285.0	5218.7
62.5°	999.2	1008.6	1265.3	2026.4	2405.8	3643.4	7305.2	8253.7	8163.5	6312.8	5255.7
65°	733.3	733.3	828.1	1392.6	1762.7	1968.6	6190.2	7885.8	8107.9	6534.9	5394.4
67.5°	566.7	571.3	603.7	858.2	1330.1	1193.6	3951.1	7057.7	7529.6	6863.3	5473.2
70°	488.1	485.7	508.9	569.0	960.0	793.4	1739.5	5507.9	6305.9	6780.1	5401.4
72.5°	360.9	363.2	416.4	499.7	668.5	515.8	786.4	2923.9	4089.8	5306.6	4628.8
75°	231.3	233.6	293.8	393.3	481.2	337.7	453.4	872.1	1674.8	2942.5	2831.5
77.5°	155.0	159.6	192.0	275.3	420.9	210.6	284.5	365.5	504.2	1103.4	1015.6
80°	104.2	104.2	122.6	185.0	266.0	175.8	152.6	242.9	261.3	342.3	171.2
82.5°	69.4	69.4	81.0	122.6	173.5	157.4	92.6	131.8	152.6	171.2	60.1
85°	41.6	41.6	55.5	76.4	113.3	88.0	60.1	74.1	78.6	108.7	32.3
87.5°	25.4	23.2	37.0	53.2	60.1	53.2	39.4	39.4	41.6	60.1	16.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: ARCH-L-AF72-100-D-U-T2U-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4
2.5°	1131.2	1128.8	1126.6	1121.9	1115.0	1110.4	1105.7	1101.2	1096.5	1096.5	1103.4
5°	1152.0	1145.0	1135.8	1126.6	1112.7	1103.4	1096.5	1087.2	1082.5	1082.5	1085.0
7.5°	1177.5	1170.5	1154.4	1138.2	1117.2	1101.2	1085.0	1064.0	1047.9	1040.9	1047.9
10°	1205.2	1196.0	1172.8	1147.3	1124.3	1082.5	1029.4	964.6	909.1	883.7	895.3
12.5°	1239.9	1228.3	1200.5	1165.9	1112.7	1010.8	879.0	728.6	633.8	589.9	599.2
15°	1290.8	1274.6	1235.2	1182.0	1064.0	844.3	629.3	455.7	367.7	330.8	335.4
17.5°	1350.9	1330.1	1276.9	1177.5	939.2	608.3	374.8	266.0	229.0	219.7	219.7
20°	1415.7	1387.9	1318.5	1142.8	749.5	381.7	233.6	203.5	189.7	182.8	182.8
22.5°	1482.7	1445.7	1353.2	1061.8	534.4	238.3	192.0	171.2	155.0	148.0	148.0
25°	1563.7	1515.2	1387.9	920.6	340.1	192.0	164.2	143.4	127.2	118.0	120.3
27.5°	1658.5	1596.2	1417.9	744.8	219.7	166.5	136.5	115.7	101.8	97.1	97.1
30°	1758.1	1684.0	1425.0	557.4	178.1	143.4	113.3	94.8	85.5	81.0	81.0
32.5°	1894.5	1797.5	1404.1	370.2	150.3	120.3	94.8	78.6	71.7	69.4	69.4
35°	2075.0	1945.5	1355.6	229.0	127.2	99.4	78.6	69.4	62.5	60.1	60.1
37.5°	2304.0	2151.4	1269.9	157.4	108.7	81.0	67.0	60.1	55.5	53.2	53.2
40°	2609.3	2401.2	1158.9	136.5	92.6	69.4	57.8	53.2	48.6	48.6	48.6
42.5°	2933.2	2704.1	1015.6	120.3	78.6	60.1	51.0	46.2	43.9	41.6	41.6
45°	3287.1	3014.1	837.4	106.4	67.0	53.2	46.2	39.4	37.0	37.0	37.0
47.5°	3638.8	3333.4	643.1	92.6	57.8	46.2	39.4	34.8	32.3	30.0	30.0
50°	3999.6	3622.5	471.9	81.0	51.0	41.6	34.8	30.0	25.4	23.2	23.2
52.5°	4261.0	3796.0	344.7	69.4	43.9	34.8	27.8	23.2	18.5	16.2	16.2
55°	4453.0	3902.4	252.2	57.8	39.4	30.0	23.2	18.5	13.8	13.8	11.6
57.5°	4603.3	3953.3	189.7	51.0	34.8	25.4	18.5	13.8	11.6	9.3	9.3
60°	4719.0	3955.6	141.1	41.6	30.0	20.9	13.8	9.3	7.0	7.0	7.0
62°	4871.7	3985.7	115.7	34.8	27.8	18.5	11.6	7.0	4.6	2.3	2.3
62.5°	4915.6	3997.2	111.0	34.8	25.4	16.2	9.3	7.0	4.6	2.3	2.3
65°	5119.3	4018.1	85.5	27.8	20.9	13.8	7.0	4.6	0.0	0.0	0.0
67.5°	5304.2	3985.7	62.5	20.9	16.2	9.3	7.0	2.3	0.0	0.0	0.0
70°	5285.8	3763.7	43.9	13.8	11.6	7.0	4.6	0.0	0.0	0.0	0.0
72.5°	4355.8	2817.5	30.0	11.6	7.0	4.6	2.3	0.0	0.0	0.0	0.0
75°	2630.2	1233.0	20.9	7.0	7.0	4.6	2.3	0.0	0.0	0.0	0.0
77.5°	862.8	446.5	13.8	4.6	4.6	2.3	2.3	0.0	0.0	0.0	0.0
80°	141.1	74.1	7.0	4.6	4.6	2.3	2.3	0.0	0.0	0.0	0.0
82.5°	43.9	18.5	4.6	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	16.2	7.0	4.6	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	4.6	4.6	4.6	2.3	2.3	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)