

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: P399178

Luminaire Tested: **ARCH-L-PA3-100-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-100-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9708 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

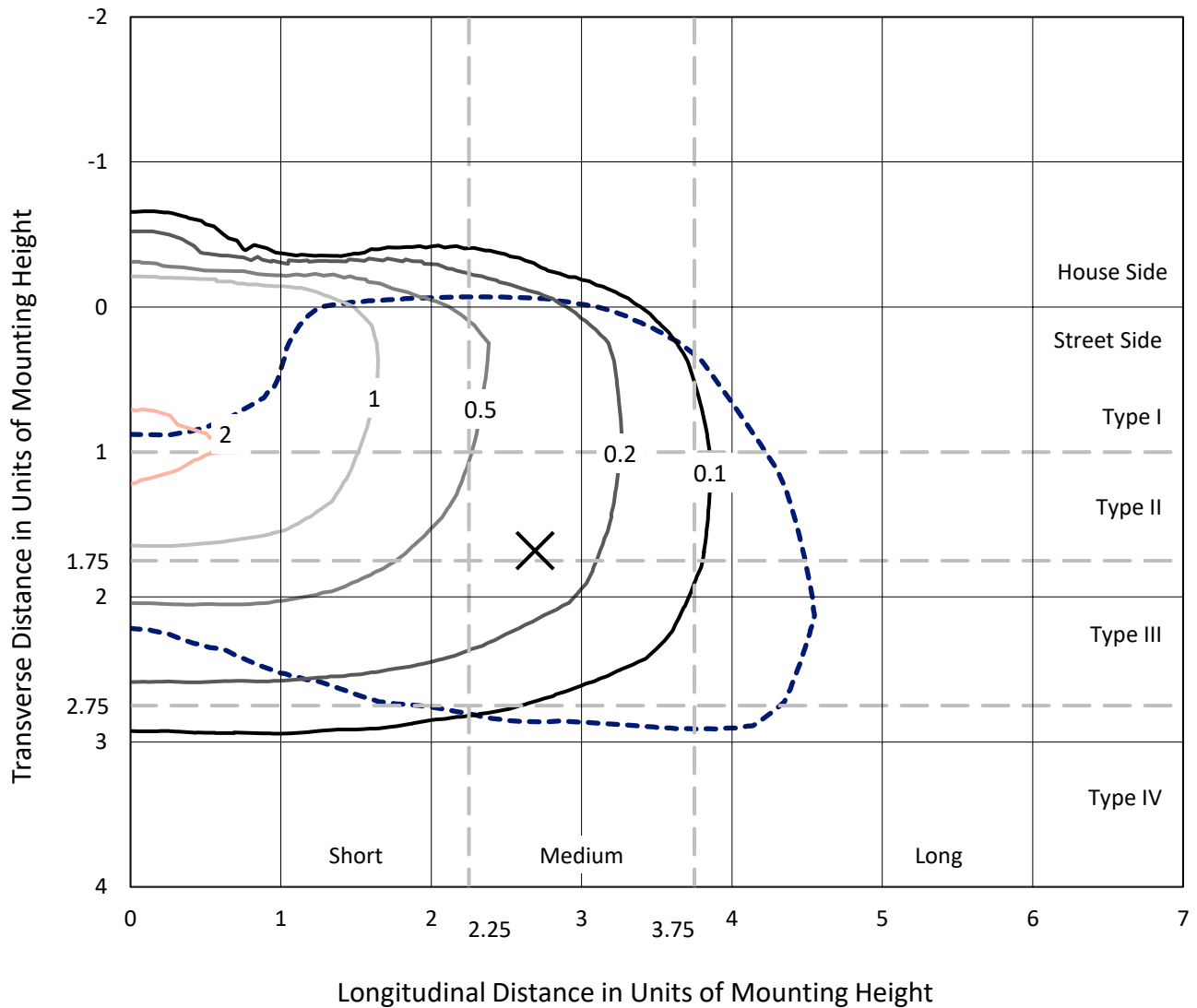
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

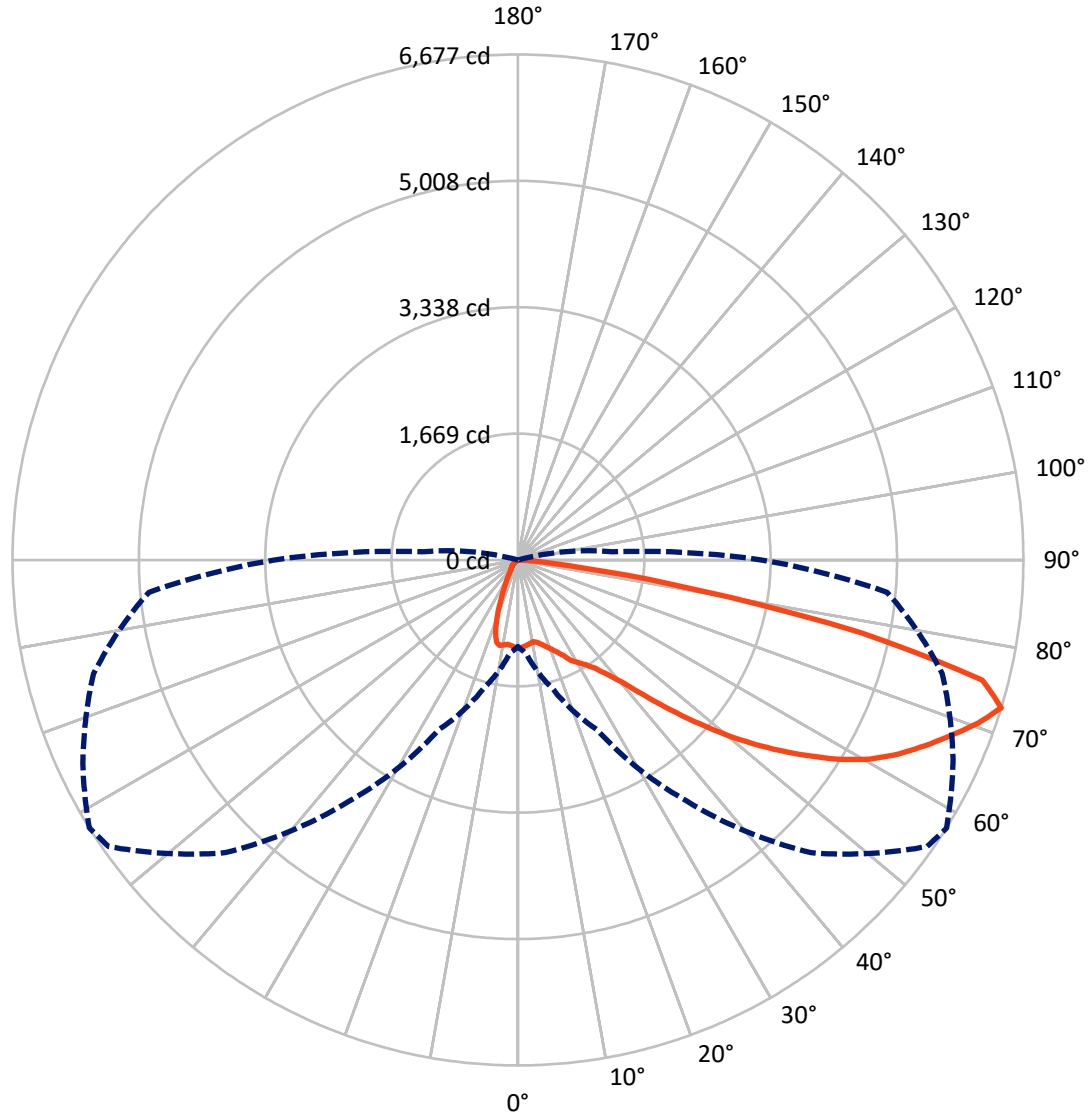
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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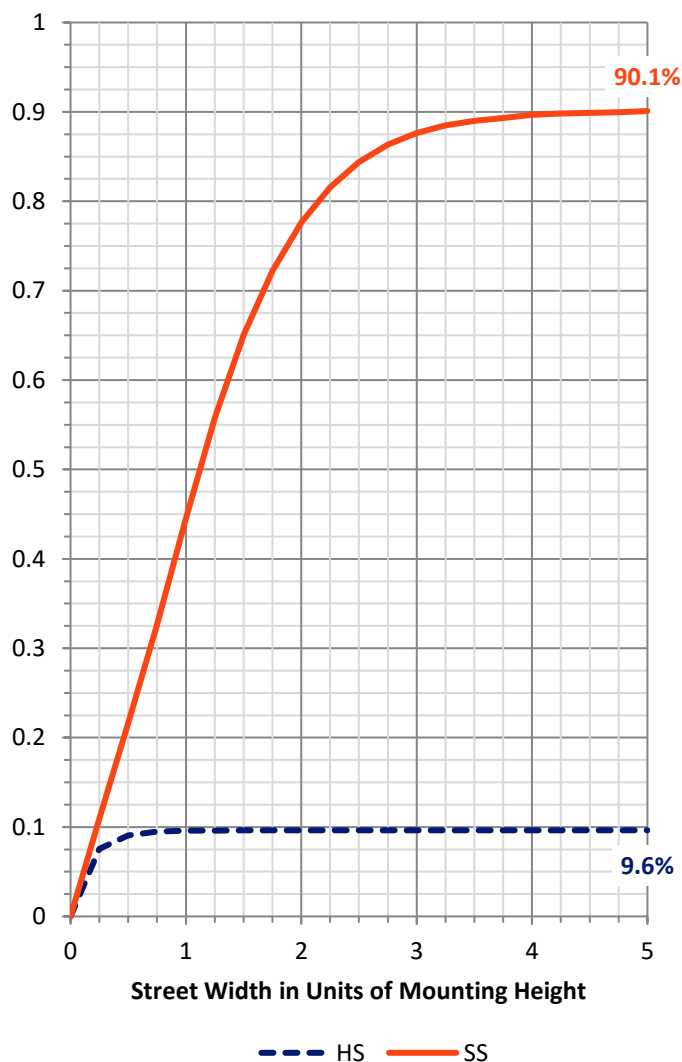
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	944.0	0.0	944.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	8764.0	0.0	8764.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	9708.0	0.0	9708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	1.1
10°-20°	278.4	2.9
20°-30°	437.4	4.5
30°-40°	754.4	7.8
40°-50°	1435.3	14.8
50°-60°	2273.0	23.4
60°-70°	2652.3	27.3
70°-80°	1661.2	17.1
80°-90°	109.0	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°	9708.0	100.0
0°-180°	9708.0	100.0

Coefficient of Utilization



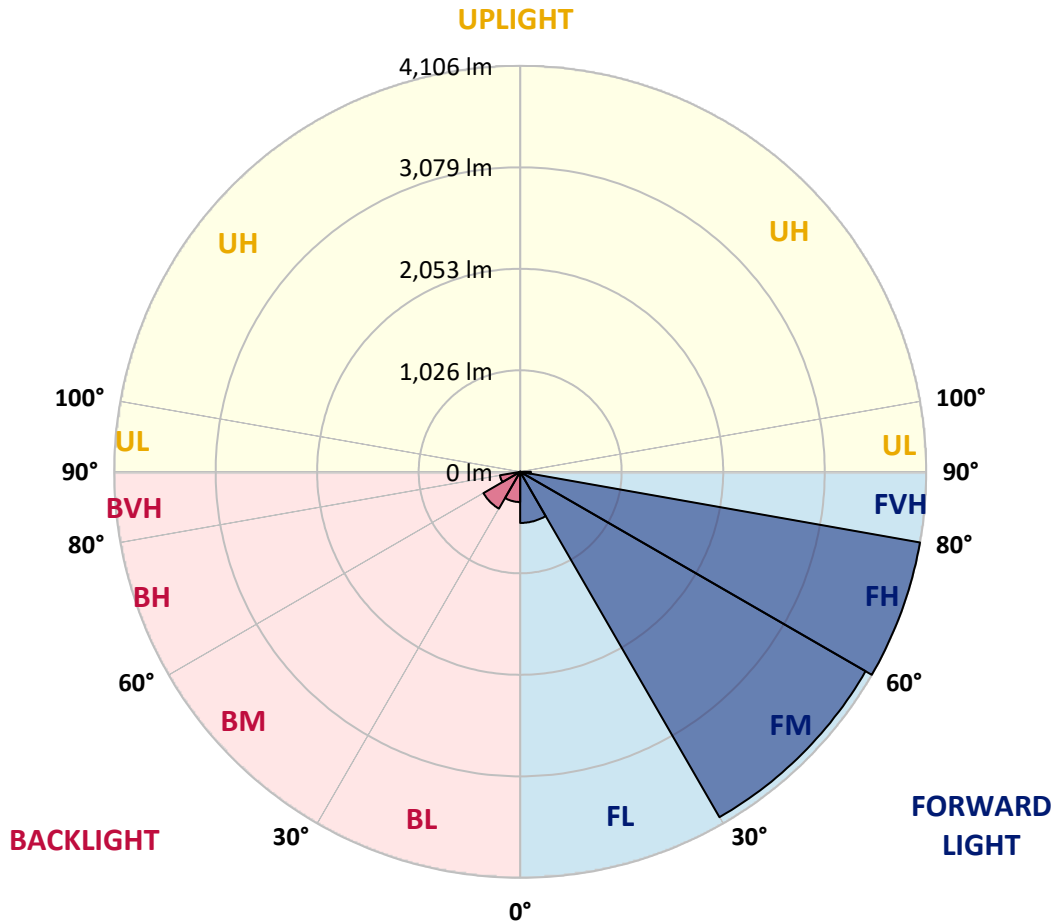
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.1	5.3			
FM (30°-60°)	4033.1	41.5			
FH (60°-80°)	4105.8	42.3			G2/5000
FVH (80°-90°)	108.0	1.1			G2/225
BL (0°-30°)	305.7	3.1	B1/500		
BM (30°-60°)	429.5	4.4	B1/1000		
BH (60°-80°)	207.7	2.1	B1/500		G1/500
BVH (80°-90°)	1.1	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9
2.5°	1159.7	1154.5	1152.7	1151.0	1152.7	1154.5	1149.3	1154.5	1151.0	1152.7	1156.2
5°	1118.0	1112.8	1111.1	1112.8	1118.0	1126.7	1130.2	1135.4	1135.4	1140.6	1142.3
7.5°	1071.2	1067.7	1065.9	1069.4	1079.8	1098.9	1109.3	1116.3	1123.2	1133.7	1144.1
10°	1045.1	1043.4	1041.6	1046.8	1057.3	1074.6	1088.5	1098.9	1125.0	1154.5	1173.6
12.5°	1027.8	1027.8	1031.2	1041.6	1055.5	1069.4	1102.4	1116.3	1156.2	1201.4	1227.4
15°	1013.9	1013.9	1019.1	1038.2	1057.3	1090.2	1138.9	1154.5	1201.4	1256.9	1291.6
17.5°	1003.4	1006.9	1010.4	1029.5	1065.9	1121.5	1178.8	1201.4	1258.6	1319.4	1357.6
20°	1005.2	1008.7	1010.4	1029.5	1081.6	1158.0	1230.9	1256.9	1322.9	1387.1	1425.3
22.5°	1015.6	1020.8	1022.5	1048.6	1109.3	1196.2	1289.9	1319.4	1390.6	1458.3	1487.8
25°	1059.0	1062.5	1052.1	1074.6	1149.3	1255.2	1366.3	1397.5	1468.7	1531.2	1555.5
27.5°	1206.6	1210.0	1152.7	1126.7	1180.5	1303.8	1460.0	1503.4	1592.0	1633.6	1637.1
30°	1526.0	1529.5	1416.6	1293.4	1255.2	1345.5	1512.1	1572.9	1687.5	1734.3	1713.5
32.5°	1937.5	1934.0	1779.5	1597.2	1432.3	1418.4	1586.8	1651.0	1776.0	1821.1	1805.5
35°	2350.6	2355.8	2223.9	1949.6	1713.5	1555.5	1682.2	1756.9	1907.9	1972.2	1944.4
37.5°	2633.6	2668.3	2611.0	2314.2	2059.0	1809.0	1836.8	1916.6	2105.8	2192.7	2133.6
40°	3032.9	3024.2	2885.3	2666.6	2440.9	2184.0	2086.8	2124.9	2342.0	2458.3	2366.3
42.5°	3569.4	3552.0	3315.9	3102.4	2850.6	2640.6	2442.6	2435.7	2612.8	2748.2	2614.5
45°	4055.5	4029.4	3868.0	3661.4	3385.3	3144.0	2876.7	2815.9	2939.2	3053.7	2897.5
47.5°	4442.6	4399.2	4284.6	4175.2	4107.5	3732.5	3331.5	3239.5	3302.0	3387.1	3166.6
50°	4900.9	4781.1	4614.5	4548.5	4689.1	4399.2	3769.0	3680.5	3677.0	3725.6	3444.4
52.5°	5109.2	4892.2	4798.5	4854.0	5102.3	5019.0	4241.2	4114.5	4064.1	4069.3	3703.0
55°	4857.5	4833.2	4883.6	5057.2	5381.8	5333.2	4694.3	4538.1	4463.4	4369.7	3951.3
57.5°	4571.1	4645.7	4845.4	5177.0	5736.0	5661.3	5140.5	4963.4	4826.3	4611.0	4227.3
60°	4307.2	4383.6	4713.4	5204.7	5930.4	5977.3	5512.0	5343.6	5140.5	4857.5	4531.1
62.5°	3906.2	3965.2	4428.7	5164.8	5845.3	6161.3	5770.7	5644.0	5454.7	5091.9	4880.1
65°	3454.8	3493.0	3951.3	4845.4	5678.7	6140.5	5984.2	5913.0	5729.0	5336.7	5225.6
67.5°	2960.0	3005.1	3387.1	4270.7	5352.3	6043.2	6185.6	6178.7	5968.6	5607.5	5475.6
70°	2390.6	2394.0	2710.0	3541.6	4782.9	5848.8	6435.6	6451.2	6197.8	5810.6	5486.0
72.5°	1144.1	1237.8	1756.9	2472.2	3887.1	5466.9	6598.8	6676.9	6341.9	5803.7	4894.0
75°	262.1	270.8	512.1	1175.3	2279.5	4196.1	6190.8	6336.6	5991.2	5019.0	3447.8
77.5°	95.5	100.7	144.1	343.7	876.7	2168.3	4430.4	4644.0	4428.7	3244.7	1630.2
80°	64.2	62.5	74.7	152.8	402.8	614.6	2265.6	2392.3	2184.0	1107.6	390.6
82.5°	33.0	34.7	52.1	85.1	270.8	213.5	756.9	822.9	677.1	222.2	72.9
85°	15.6	15.6	29.5	53.8	114.6	74.7	168.4	203.1	182.3	97.2	24.3
87.5°	15.6	15.6	27.8	34.7	59.0	31.2	41.7	52.1	48.6	52.1	8.7
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9
2.5°	1156.2	1154.5	1152.7	1156.2	1154.5	1158.0	1158.0	1161.4	1161.4	1158.0	1156.2
5°	1140.6	1137.1	1133.7	1133.7	1131.9	1135.4	1145.8	1154.5	1156.2	1151.0	1149.3
7.5°	1142.3	1142.3	1138.9	1131.9	1119.8	1119.8	1119.8	1130.2	1135.4	1131.9	1130.2
10°	1173.6	1175.3	1166.6	1151.0	1130.2	1111.1	1074.6	1020.8	970.5	956.6	951.4
12.5°	1227.4	1229.1	1211.8	1184.0	1140.6	1027.8	888.9	760.4	661.4	633.7	628.5
15°	1291.6	1293.4	1262.1	1217.0	1085.0	822.9	616.3	470.5	383.7	362.8	361.1
17.5°	1357.6	1354.1	1307.3	1220.5	920.1	583.3	375.0	300.3	277.8	272.6	274.3
20°	1421.8	1411.4	1347.2	1156.2	708.3	381.9	274.3	256.9	251.7	248.3	248.3
22.5°	1480.9	1460.0	1380.2	1029.5	496.5	274.3	244.8	241.3	234.4	229.2	227.4
25°	1539.9	1510.4	1401.0	864.6	333.3	239.6	230.9	224.0	215.3	208.3	206.6
27.5°	1611.1	1569.4	1390.6	656.2	250.0	222.2	215.3	204.9	192.7	182.3	178.8
30°	1678.8	1631.9	1331.6	453.1	213.5	204.9	194.4	178.8	163.2	151.0	147.6
32.5°	1763.8	1710.0	1225.7	296.9	185.8	178.8	168.4	149.3	128.5	114.6	111.1
35°	1885.4	1824.6	1090.2	208.3	163.2	151.0	137.1	116.3	93.7	83.3	81.6
37.5°	2055.5	1973.9	920.1	168.4	144.1	126.7	105.9	85.1	69.4	60.8	59.0
40°	2263.8	2138.8	730.9	149.3	128.5	105.9	79.9	60.8	50.3	43.4	43.4
42.5°	2489.5	2293.3	538.2	137.1	112.8	86.8	59.0	43.4	36.5	33.0	31.2
45°	2722.2	2430.5	362.8	126.7	99.0	66.0	41.7	29.5	24.3	24.3	22.6
47.5°	2963.5	2522.5	234.4	114.6	83.3	48.6	27.8	20.8	17.4	17.4	17.4
50°	3203.0	2571.1	166.7	104.2	67.7	33.0	20.8	15.6	13.9	13.9	13.9
52.5°	3376.6	2539.9	133.7	90.3	52.1	24.3	15.6	12.2	10.4	10.4	10.4
55°	3527.7	2486.0	116.3	78.1	38.2	17.4	12.2	10.4	8.7	8.7	8.7
57.5°	3682.2	2416.6	104.2	66.0	27.8	12.2	8.7	6.9	6.9	6.9	6.9
60°	3822.8	2298.6	90.3	52.1	19.1	8.7	6.9	5.2	5.2	5.2	5.2
62.5°	3960.0	2197.9	78.1	39.9	13.9	6.9	3.5	3.5	1.7	1.7	1.7
65°	4038.1	2062.4	62.5	26.0	8.7	5.2	1.7	1.7	0.0	0.0	0.0
67.5°	4013.8	1901.0	43.4	15.6	5.2	3.5	1.7	0.0	0.0	0.0	0.0
70°	3845.4	1684.0	26.0	8.7	5.2	3.5	1.7	0.0	0.0	0.0	0.0
72.5°	3220.4	1246.5	15.6	6.9	3.5	1.7	0.0	0.0	0.0	0.0	0.0
75°	2151.0	572.9	8.7	5.2	1.7	1.7	0.0	0.0	0.0	0.0	0.0
77.5°	984.3	171.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	197.9	45.1	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.7	8.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.7	0.0	0.0	0.0	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)