

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: P399322

Luminaire Tested: **ARCH-L-PA3-120-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399322
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-PA3-120-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 530mA 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: 11437 lumens
Efficiency: N/A
Efficacy: 93.0 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

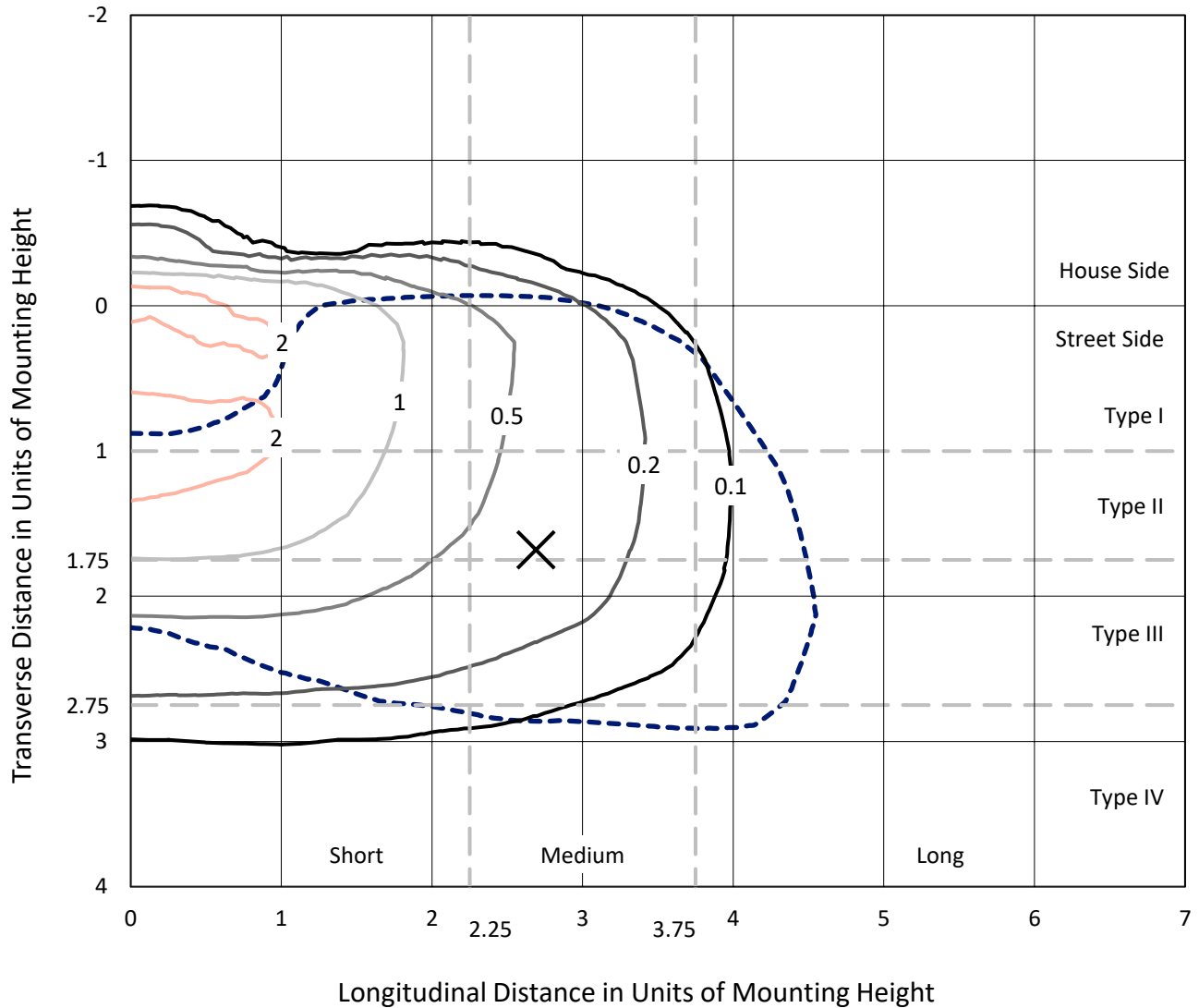
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399322
 CATALOG NUMBER: ARCH-L-PA3-120-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

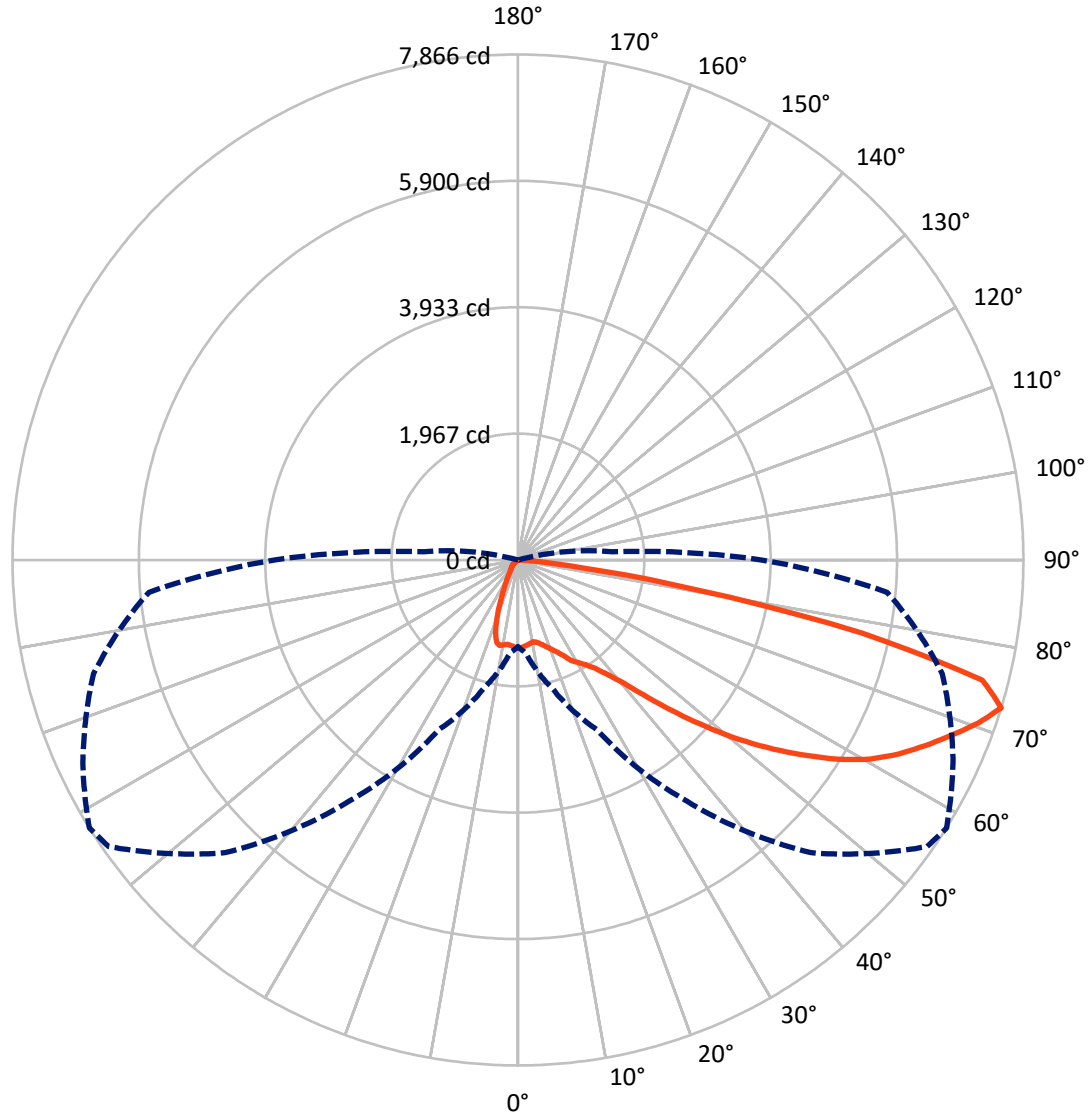
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399322
CATALOG NUMBER: ARCH-L-PA3-120-830-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399322
 CATALOG NUMBER: ARCH-L-PA3-120-830-U-T3-HSS

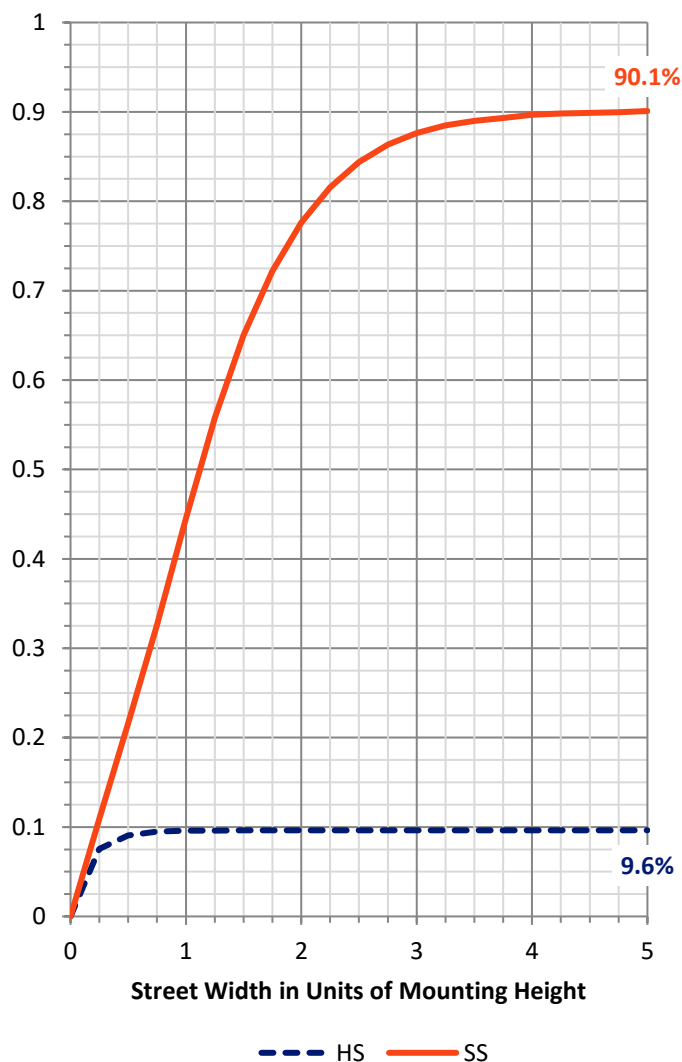
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1112.2	0.0	1112.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	10324.8	0.0	10324.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	11437.0	0.0	11437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	1.1
10°-20°	328.0	2.9
20°-30°	515.3	4.5
30°-40°	888.7	7.8
40°-50°	1690.9	14.8
50°-60°	2677.8	23.4
60°-70°	3124.7	27.3
70°-80°	1957.0	17.1
80°-90°	128.5	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°	11437.0	100.0
0°-180°	11437.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399322

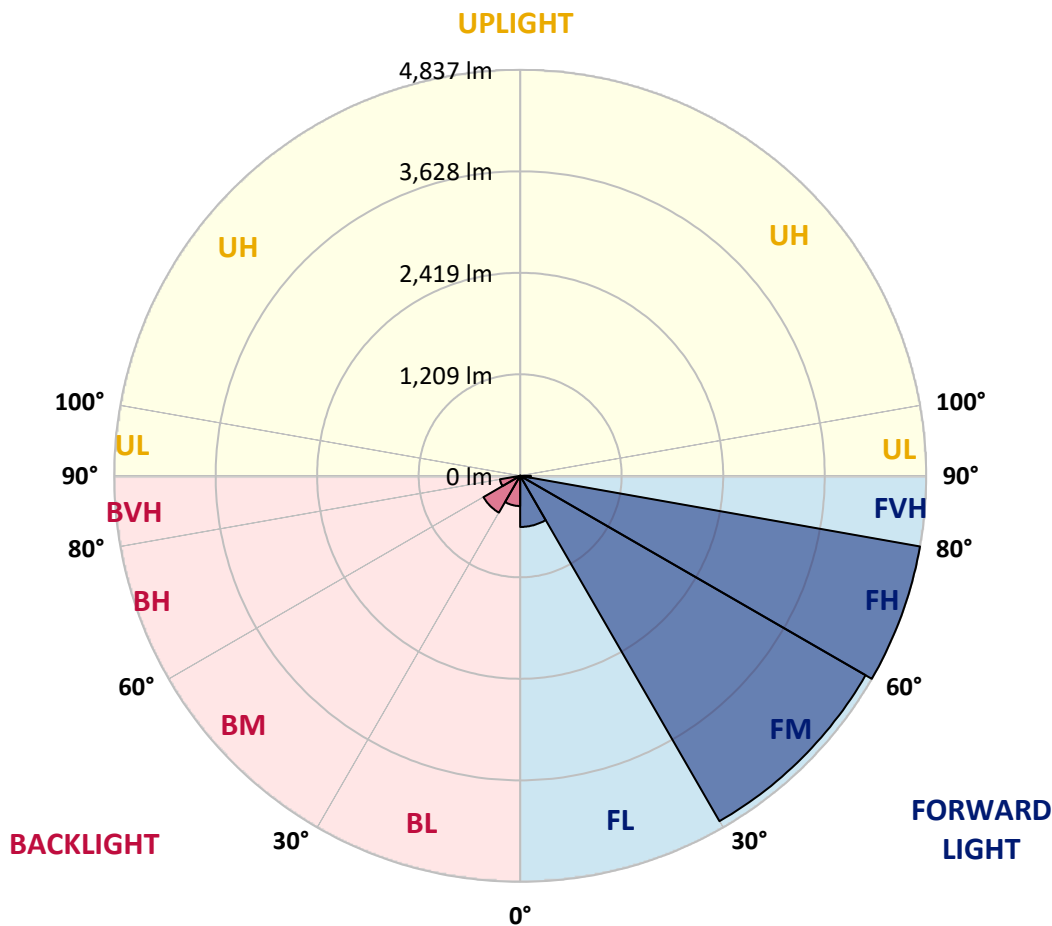
CATALOG NUMBER: ARCH-L-PA3-120-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	609.2	5.3			
FM (30°-60°)	4751.4	41.5			
FH (60°-80°)	4837.0	42.3			G2/5000
FVH (80°-90°)	127.2	1.1			G2/225
BL (0°-30°)	360.2	3.1	B1/500		
BM (30°-60°)	506.1	4.4	B1/1000		
BH (60°-80°)	244.7	2.1	B1/500		G1/500
BVH (80°-90°)	1.2	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





REPORT NUMBER: P399322

CATALOG NUMBER: ARCH-L-PA3-120-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4
2.5°	1366.2	1360.1	1358.1	1356.0	1358.1	1360.1	1354.0	1360.1	1356.0	1358.1	1362.1
5°	1317.1	1311.0	1309.0	1311.0	1317.1	1327.4	1331.5	1337.6	1337.6	1343.7	1345.8
7.5°	1261.9	1257.8	1255.8	1259.9	1272.2	1294.7	1306.9	1315.1	1323.3	1335.6	1347.8
10°	1231.2	1229.2	1227.2	1233.3	1245.6	1266.0	1282.4	1294.7	1325.3	1360.1	1382.6
12.5°	1210.8	1210.8	1214.9	1227.2	1243.5	1259.9	1298.7	1315.1	1362.1	1415.3	1446.0
15°	1194.4	1194.4	1200.6	1223.1	1245.6	1284.4	1341.7	1360.1	1415.3	1480.8	1521.7
17.5°	1182.2	1186.3	1190.3	1212.8	1255.8	1321.2	1388.7	1415.3	1482.8	1554.4	1599.4
20°	1184.2	1188.3	1190.3	1212.8	1274.2	1364.2	1450.1	1480.8	1558.5	1634.2	1679.2
22.5°	1196.5	1202.6	1204.7	1235.3	1306.9	1409.2	1519.6	1554.4	1638.3	1718.0	1752.8
25°	1247.6	1251.7	1239.4	1266.0	1354.0	1478.7	1609.6	1646.4	1730.3	1803.9	1832.6
27.5°	1421.5	1425.5	1358.1	1327.4	1390.8	1536.0	1720.1	1771.2	1875.5	1924.6	1928.7
30°	1797.8	1801.9	1668.9	1523.7	1478.7	1585.1	1781.4	1853.0	1988.0	2043.2	2018.7
32.5°	2282.5	2278.4	2096.4	1881.6	1687.3	1671.0	1869.4	1945.0	2092.3	2145.5	2127.1
35°	2769.3	2775.4	2620.0	2296.8	2018.7	1832.6	1981.9	2069.8	2247.7	2323.4	2290.7
37.5°	3102.7	3143.6	3076.1	2726.3	2425.7	2131.2	2163.9	2258.0	2480.9	2583.2	2513.6
40°	3573.1	3562.8	3399.2	3141.5	2875.6	2572.9	2458.4	2503.4	2759.1	2896.1	2787.7
42.5°	4205.1	4184.6	3906.4	3654.9	3358.3	3110.8	2877.7	2869.5	3078.1	3237.6	3080.2
45°	4777.7	4747.1	4556.8	4313.5	3988.3	3704.0	3389.0	3317.4	3462.6	3597.6	3413.5
47.5°	5233.8	5182.7	5047.7	4918.9	4839.1	4397.3	3924.9	3816.5	3890.1	3990.3	3730.6
50°	5773.8	5632.6	5436.3	5358.6	5524.3	5182.7	4440.3	4336.0	4331.9	4389.1	4057.8
52.5°	6019.2	5763.5	5653.1	5718.6	6011.0	5912.9	4996.6	4847.3	4788.0	4794.1	4362.5
55°	5722.6	5694.0	5753.3	5957.8	6340.3	6283.0	5530.4	5346.3	5258.4	5147.9	4655.0
57.5°	5385.2	5473.1	5708.3	6099.0	6757.5	6669.6	6056.0	5847.4	5685.8	5432.2	4980.2
60°	5074.3	5164.3	5552.9	6131.7	6986.6	7041.8	6493.7	6295.3	6056.0	5722.6	5338.1
62.5°	4601.8	4671.4	5217.5	6084.7	6886.4	7258.6	6798.4	6649.1	6426.2	5998.8	5749.2
65°	4070.1	4115.1	4655.0	5708.3	6690.0	7234.1	7050.0	6966.2	6749.4	6287.1	6156.2
67.5°	3487.2	3540.3	3990.3	5031.3	6305.5	7119.6	7287.3	7279.1	7031.6	6606.2	6450.8
70°	2816.3	2820.4	3192.7	4172.3	5634.7	6890.5	7581.8	7600.2	7301.6	6845.5	6463.0
72.5°	1347.8	1458.3	2069.8	2912.5	4579.3	6440.5	7774.0	7866.1	7471.3	6837.3	5765.6
75°	308.8	319.1	603.4	1384.6	2685.4	4943.4	7293.4	7465.2	7058.2	5912.9	4061.9
77.5°	112.5	118.6	169.8	405.0	1032.9	2554.5	5219.5	5471.1	5217.5	3822.6	1920.5
80°	75.7	73.6	87.9	180.0	474.5	724.0	2669.1	2818.4	2572.9	1304.9	460.2
82.5°	38.9	40.9	61.4	100.2	319.1	251.6	891.7	969.5	797.7	261.8	85.9
85°	18.4	18.4	34.8	63.4	135.0	87.9	198.4	239.3	214.8	114.5	28.6
87.5°	18.4	18.4	32.7	40.9	69.5	36.8	49.1	61.4	57.3	61.4	10.2
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: P399322

CATALOG NUMBER: ARCH-L-PA3-120-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4
2.5°	1362.1	1360.1	1358.1	1362.1	1360.1	1364.2	1364.2	1368.3	1368.3	1364.2	1362.1
5°	1343.7	1339.6	1335.6	1335.6	1333.5	1337.6	1349.9	1360.1	1362.1	1356.0	1354.0
7.5°	1345.8	1345.8	1341.7	1333.5	1319.2	1319.2	1319.2	1331.5	1337.6	1333.5	1331.5
10°	1382.6	1384.6	1374.4	1356.0	1331.5	1309.0	1266.0	1202.6	1143.3	1126.9	1120.8
12.5°	1446.0	1448.0	1427.6	1394.9	1343.7	1210.8	1047.2	895.8	779.2	746.5	740.4
15°	1521.7	1523.7	1486.9	1433.7	1278.3	969.5	726.1	554.3	452.0	427.5	425.4
17.5°	1599.4	1595.3	1540.1	1437.8	1084.0	687.2	441.8	353.8	327.2	321.1	323.2
20°	1675.1	1662.8	1587.1	1362.1	834.5	450.0	323.2	302.7	296.6	292.5	292.5
22.5°	1744.6	1720.1	1626.0	1212.8	584.9	323.2	288.4	284.3	276.1	270.0	267.9
25°	1814.1	1779.4	1650.5	1018.5	392.7	282.2	272.0	263.8	253.6	245.4	243.4
27.5°	1898.0	1848.9	1638.3	773.1	294.5	261.8	253.6	241.3	227.0	214.8	210.7
30°	1977.8	1922.5	1568.7	533.8	251.6	241.3	229.1	210.7	192.3	177.9	173.8
32.5°	2078.0	2014.6	1444.0	349.7	218.8	210.7	198.4	175.9	151.3	135.0	130.9
35°	2221.2	2149.6	1284.4	245.4	192.3	177.9	161.6	137.0	110.4	98.2	96.1
37.5°	2421.6	2325.5	1084.0	198.4	169.8	149.3	124.8	100.2	81.8	71.6	69.5
40°	2667.0	2519.8	861.1	175.9	151.3	124.8	94.1	71.6	59.3	51.1	51.1
42.5°	2932.9	2701.8	634.0	161.6	132.9	102.3	69.5	51.1	43.0	38.9	36.8
45°	3207.0	2863.4	427.5	149.3	116.6	77.7	49.1	34.8	28.6	28.6	26.6
47.5°	3491.3	2971.8	276.1	135.0	98.2	57.3	32.7	24.5	20.5	20.5	20.5
50°	3773.5	3029.0	196.3	122.7	79.8	38.9	24.5	18.4	16.4	16.4	16.4
52.5°	3978.0	2992.2	157.5	106.4	61.4	28.6	18.4	14.3	12.3	12.3	12.3
55°	4156.0	2928.8	137.0	92.0	45.0	20.5	14.3	12.3	10.2	10.2	10.2
57.5°	4338.0	2847.0	122.7	77.7	32.7	14.3	10.2	8.2	8.2	8.2	8.2
60°	4503.7	2707.9	106.4	61.4	22.5	10.2	8.2	6.1	6.1	6.1	6.1
62.5°	4665.2	2589.3	92.0	47.0	16.4	8.2	4.1	4.1	2.0	2.0	2.0
65°	4757.3	2429.8	73.6	30.7	10.2	6.1	2.0	2.0	0.0	0.0	0.0
67.5°	4728.6	2239.6	51.1	18.4	6.1	4.1	2.0	0.0	0.0	0.0	0.0
70°	4530.3	1983.9	30.7	10.2	6.1	4.1	2.0	0.0	0.0	0.0	0.0
72.5°	3794.0	1468.5	18.4	8.2	4.1	2.0	0.0	0.0	0.0	0.0	0.0
75°	2534.1	674.9	10.2	6.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	1159.7	202.5	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	233.2	53.2	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.1	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.0	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)