

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: P399133

Luminaire Tested: **ARCH-L-PA3-100-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399133
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-PA3-100-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 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: 11126 lumens
Efficiency: N/A
Efficacy: 109.1 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

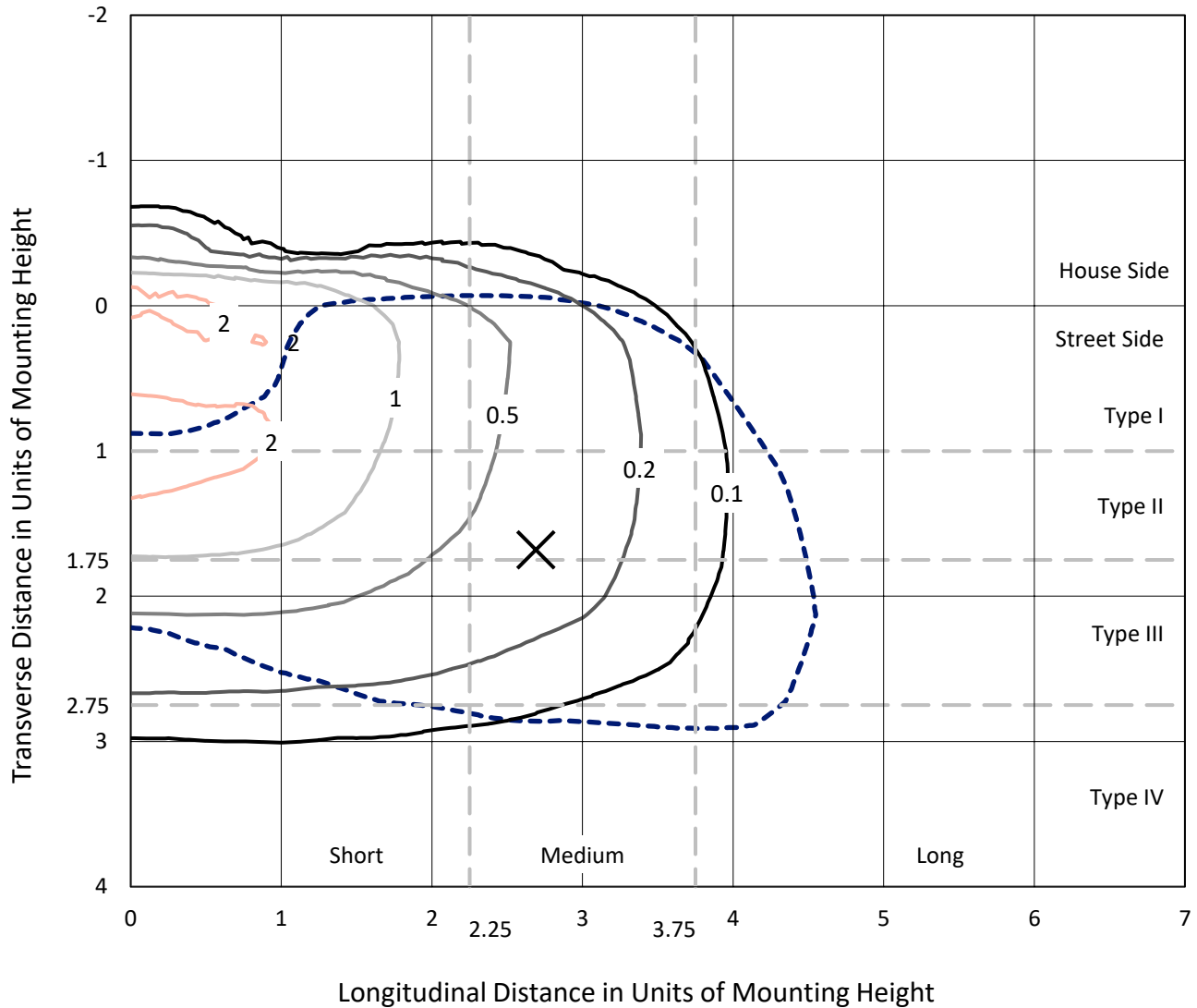
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

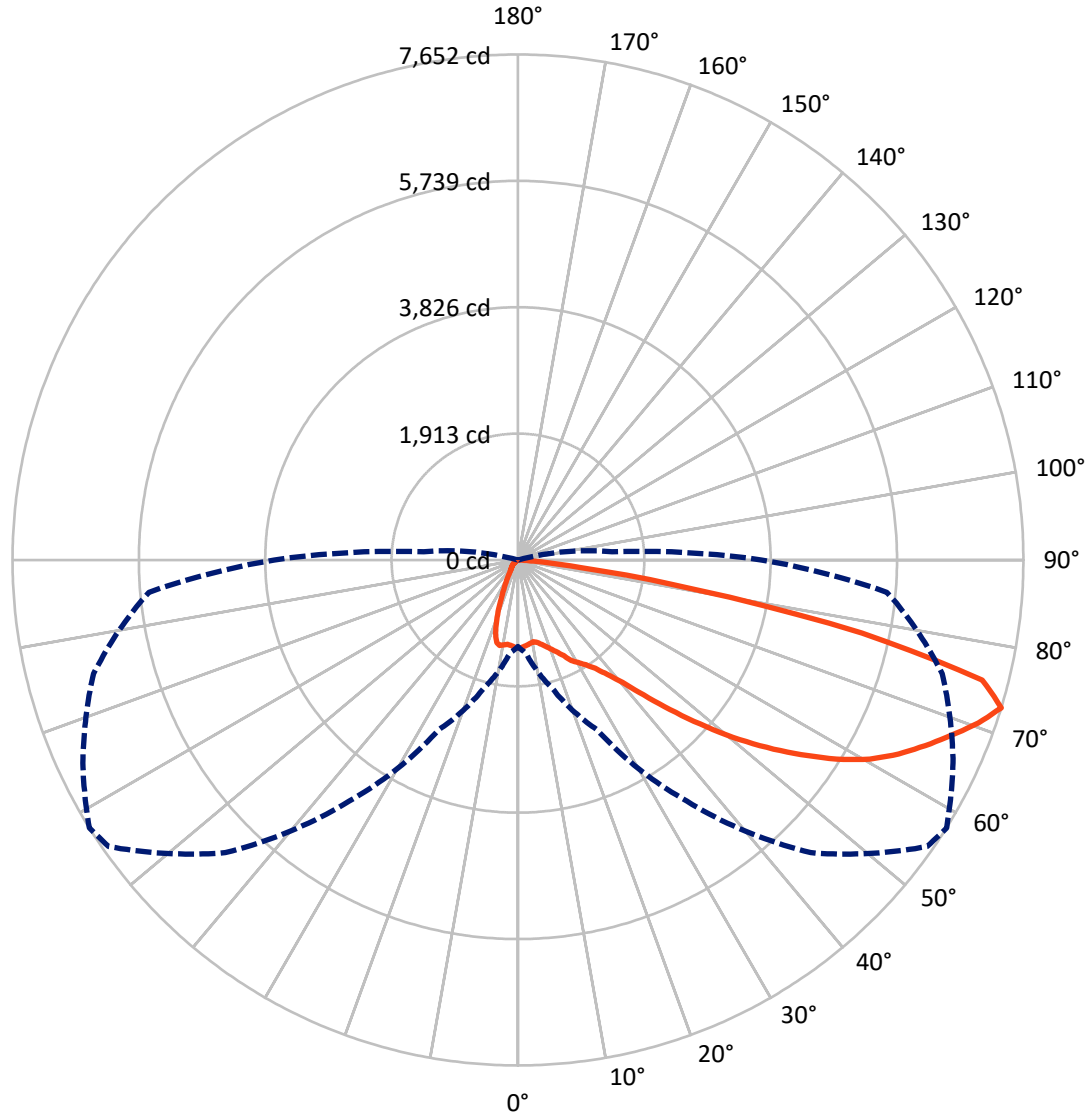
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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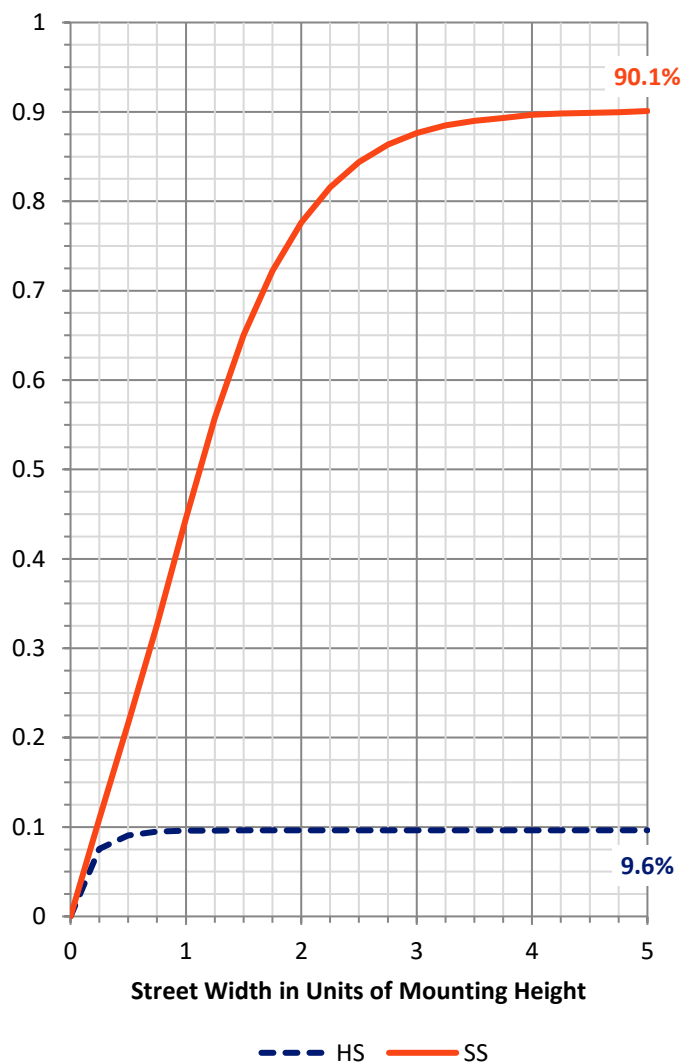
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1081.9	0.0	1081.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	10044.1	0.0	10044.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	11126.0	0.0	11126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.1
10°-20°	319.1	2.9
20°-30°	501.3	4.5
30°-40°	864.6	7.8
40°-50°	1644.9	14.8
50°-60°	2605.0	23.4
60°-70°	3039.8	27.3
70°-80°	1903.8	17.1
80°-90°	125.0	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°	11126.0	100.0
0°-180°	11126.0	100.0

Coefficient of Utilization



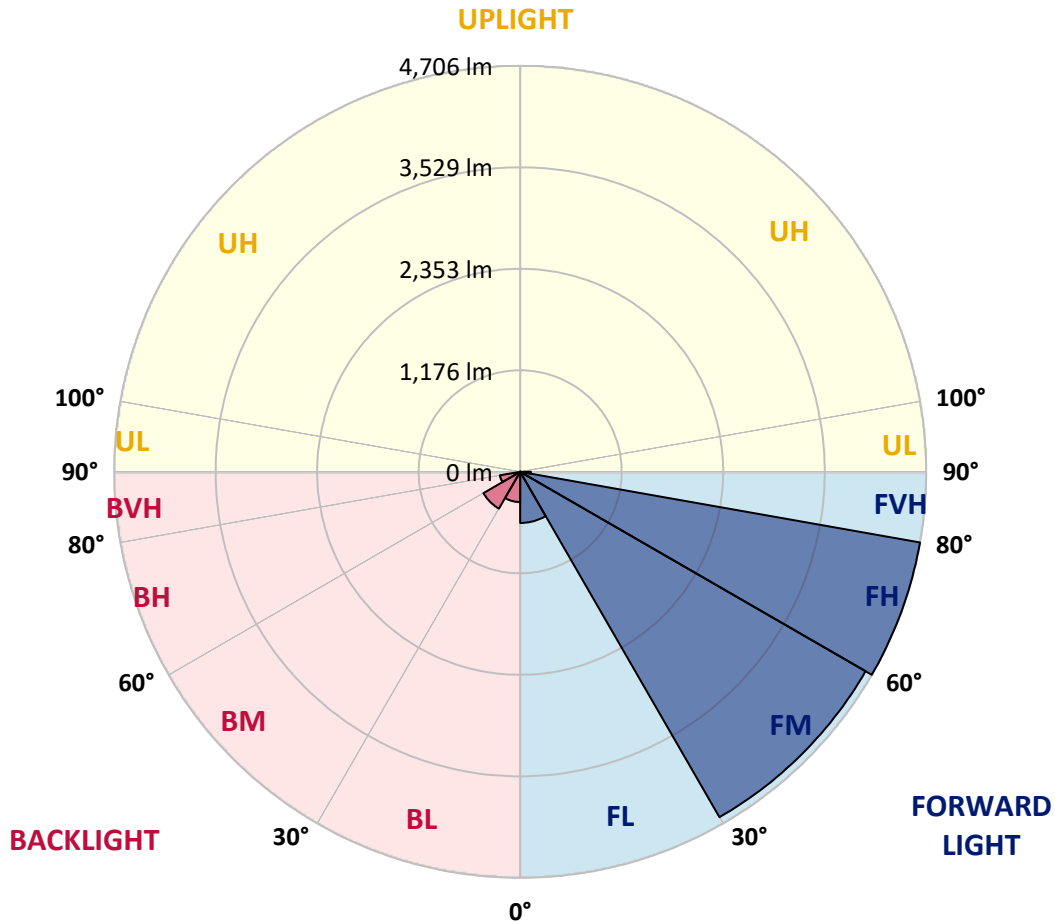
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	592.6	5.3			
FM (30°-60°)	4622.2	41.5			
FH (60°-80°)	4705.5	42.3			G2/5000
FVH (80°-90°)	123.8	1.1			G2/225
BL (0°-30°)	350.4	3.1	B1/500		
BM (30°-60°)	492.3	4.4	B1/1000		
BH (60°-80°)	238.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1329.1	1323.1	1321.1	1319.1	1321.1	1323.1	1317.1	1323.1	1319.1	1321.1	1325.1
5°	1281.3	1275.4	1273.4	1275.4	1281.3	1291.3	1295.3	1301.2	1301.2	1307.2	1309.2
7.5°	1227.6	1223.6	1221.6	1225.6	1237.6	1259.4	1271.4	1279.3	1287.3	1299.2	1311.2
10°	1197.8	1195.8	1193.8	1199.8	1211.7	1231.6	1247.5	1259.4	1289.3	1323.1	1345.0
12.5°	1177.9	1177.9	1181.8	1193.8	1209.7	1225.6	1263.4	1279.3	1325.1	1376.8	1406.7
15°	1162.0	1162.0	1167.9	1189.8	1211.7	1249.5	1305.2	1323.1	1376.8	1440.5	1480.3
17.5°	1150.0	1154.0	1158.0	1179.9	1221.6	1285.3	1351.0	1376.8	1442.5	1512.1	1555.9
20°	1152.0	1156.0	1158.0	1179.9	1239.5	1327.1	1410.7	1440.5	1516.1	1589.7	1633.5
22.5°	1163.9	1169.9	1171.9	1201.7	1271.4	1370.9	1478.3	1512.1	1593.7	1671.3	1705.1
25°	1213.7	1217.7	1205.7	1231.6	1317.1	1438.5	1565.9	1601.7	1683.2	1754.9	1782.7
27.5°	1382.8	1386.8	1321.1	1291.3	1353.0	1494.2	1673.3	1723.0	1824.5	1872.3	1876.2
30°	1748.9	1752.9	1623.6	1482.3	1438.5	1542.0	1733.0	1802.6	1933.9	1987.7	1963.8
32.5°	2220.4	2216.5	2039.4	1830.5	1641.5	1625.5	1818.5	1892.2	2035.4	2087.1	2069.2
35°	2694.0	2699.9	2548.7	2234.4	1963.8	1782.7	1928.0	2013.5	2186.6	2260.2	2228.4
37.5°	3018.3	3058.1	2992.4	2652.2	2359.7	2073.2	2105.0	2196.6	2413.4	2512.9	2445.3
40°	3475.9	3466.0	3306.8	3056.1	2797.4	2503.0	2391.6	2435.3	2684.0	2817.3	2711.9
42.5°	4090.7	4070.8	3800.2	3555.5	3267.0	3026.3	2799.4	2791.5	2994.4	3149.6	2996.4
45°	4647.8	4618.0	4432.9	4196.2	3879.8	3603.2	3296.8	3227.2	3368.5	3499.8	3320.7
47.5°	5091.5	5041.8	4910.4	4785.1	4707.5	4277.7	3818.1	3712.7	3784.3	3881.8	3629.1
50°	5616.8	5479.5	5288.5	5212.9	5374.0	5041.8	4319.5	4218.0	4214.1	4269.8	3947.5
52.5°	5855.5	5606.8	5499.4	5563.0	5847.6	5752.1	4860.7	4715.5	4657.8	4663.7	4243.9
55°	5567.0	5539.2	5596.9	5795.8	6167.9	6112.2	5380.0	5200.9	5115.4	5007.9	4528.4
57.5°	5238.7	5324.3	5553.1	5933.1	6573.8	6488.2	5891.3	5688.4	5531.2	5284.5	4844.8
60°	4936.3	5023.9	5401.9	5965.0	6796.6	6850.3	6317.1	6124.1	5891.3	5567.0	5193.0
62.5°	4476.7	4544.4	5075.6	5919.2	6699.1	7061.3	6613.6	6468.3	6251.5	5835.6	5592.9
65°	3959.4	4003.2	4528.4	5553.1	6508.1	7037.4	6858.3	6776.7	6565.8	6116.2	5988.8
67.5°	3392.3	3444.1	3881.8	4894.5	6134.1	6926.0	7089.1	7081.1	6840.4	6426.6	6275.3
70°	2739.7	2743.7	3105.8	4058.9	5481.5	6703.1	7375.6	7393.5	7103.0	6659.3	6287.3
72.5°	1311.2	1418.6	2013.5	2833.3	4454.8	6265.4	7562.6	7652.2	7268.2	6651.4	5608.8
75°	300.4	310.4	586.9	1347.0	2612.4	4809.0	7095.1	7262.2	6866.3	5752.1	3951.4
77.5°	109.4	115.4	165.1	393.9	1004.8	2485.1	5077.6	5322.3	5075.6	3718.6	1868.3
80°	73.6	71.6	85.6	175.1	461.6	704.3	2596.5	2741.7	2503.0	1269.4	447.7
82.5°	37.8	39.8	59.7	97.5	310.4	244.7	867.5	943.1	776.0	254.7	83.6
85°	17.9	17.9	33.8	61.7	131.3	85.6	193.0	232.8	208.9	111.4	27.9
87.5°	17.9	17.9	31.8	39.8	67.6	35.8	47.8	59.7	55.7	59.7	9.9
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°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1325.1	1323.1	1321.1	1325.1	1323.1	1327.1	1327.1	1331.1	1331.1	1327.1	1325.1
5°	1307.2	1303.2	1299.2	1299.2	1297.2	1301.2	1313.2	1323.1	1325.1	1319.1	1317.1
7.5°	1309.2	1309.2	1305.2	1297.2	1283.3	1283.3	1283.3	1295.3	1301.2	1297.2	1295.3
10°	1345.0	1347.0	1337.0	1319.1	1295.3	1273.4	1231.6	1169.9	1112.2	1096.3	1090.3
12.5°	1406.7	1408.7	1388.8	1356.9	1307.2	1177.9	1018.7	871.5	758.1	726.2	720.3
15°	1480.3	1482.3	1446.5	1394.7	1243.5	943.1	706.3	539.2	439.7	415.8	413.8
17.5°	1555.9	1551.9	1498.2	1398.7	1054.5	668.5	429.8	344.2	318.3	312.4	314.4
20°	1629.5	1617.6	1544.0	1325.1	811.8	437.7	314.4	294.5	288.5	284.5	284.5
22.5°	1697.2	1673.3	1581.8	1179.9	569.0	314.4	280.5	276.6	268.6	262.6	260.6
25°	1764.8	1731.0	1605.6	990.8	382.0	274.6	264.6	256.7	246.7	238.8	236.8
27.5°	1846.4	1798.6	1593.7	752.1	286.5	254.7	246.7	234.8	220.9	208.9	204.9
30°	1924.0	1870.3	1526.1	519.3	244.7	234.8	222.8	204.9	187.0	173.1	169.1
32.5°	2021.5	1959.8	1404.7	340.2	212.9	204.9	193.0	171.1	147.2	131.3	127.3
35°	2160.8	2091.1	1249.5	238.8	187.0	173.1	157.2	133.3	107.4	95.5	93.5
37.5°	2355.7	2262.2	1054.5	193.0	165.1	145.2	121.4	97.5	79.6	69.6	67.6
40°	2594.5	2451.2	837.6	171.1	147.2	121.4	91.5	69.6	57.7	49.7	49.7
42.5°	2853.2	2628.3	616.8	157.2	129.3	99.5	67.6	49.7	41.8	37.8	35.8
45°	3119.8	2785.5	415.8	145.2	113.4	75.6	47.8	33.8	27.9	27.9	25.9
47.5°	3396.3	2891.0	268.6	131.3	95.5	55.7	31.8	23.9	19.9	19.9	19.9
50°	3670.9	2946.7	191.0	119.4	77.6	37.8	23.9	17.9	15.9	15.9	15.9
52.5°	3869.9	2910.9	153.2	103.5	59.7	27.9	17.9	13.9	11.9	11.9	11.9
55°	4043.0	2849.2	133.3	89.5	43.8	19.9	13.9	11.9	9.9	9.9	9.9
57.5°	4220.0	2769.6	119.4	75.6	31.8	13.9	9.9	8.0	8.0	8.0	8.0
60°	4381.2	2634.3	103.5	59.7	21.9	9.9	8.0	6.0	6.0	6.0	6.0
62.5°	4538.4	2518.9	89.5	45.8	15.9	8.0	4.0	4.0	2.0	2.0	2.0
65°	4627.9	2363.7	71.6	29.8	9.9	6.0	2.0	2.0	0.0	0.0	0.0
67.5°	4600.1	2178.7	49.7	17.9	6.0	4.0	2.0	0.0	0.0	0.0	0.0
70°	4407.1	1930.0	29.8	9.9	6.0	4.0	2.0	0.0	0.0	0.0	0.0
72.5°	3690.8	1428.6	17.9	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	2465.2	656.6	9.9	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	1128.1	197.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	226.8	51.7	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.8	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	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)