

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: P399135

Luminaire Tested: **ARCH-L-PA3-100-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
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-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10984 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

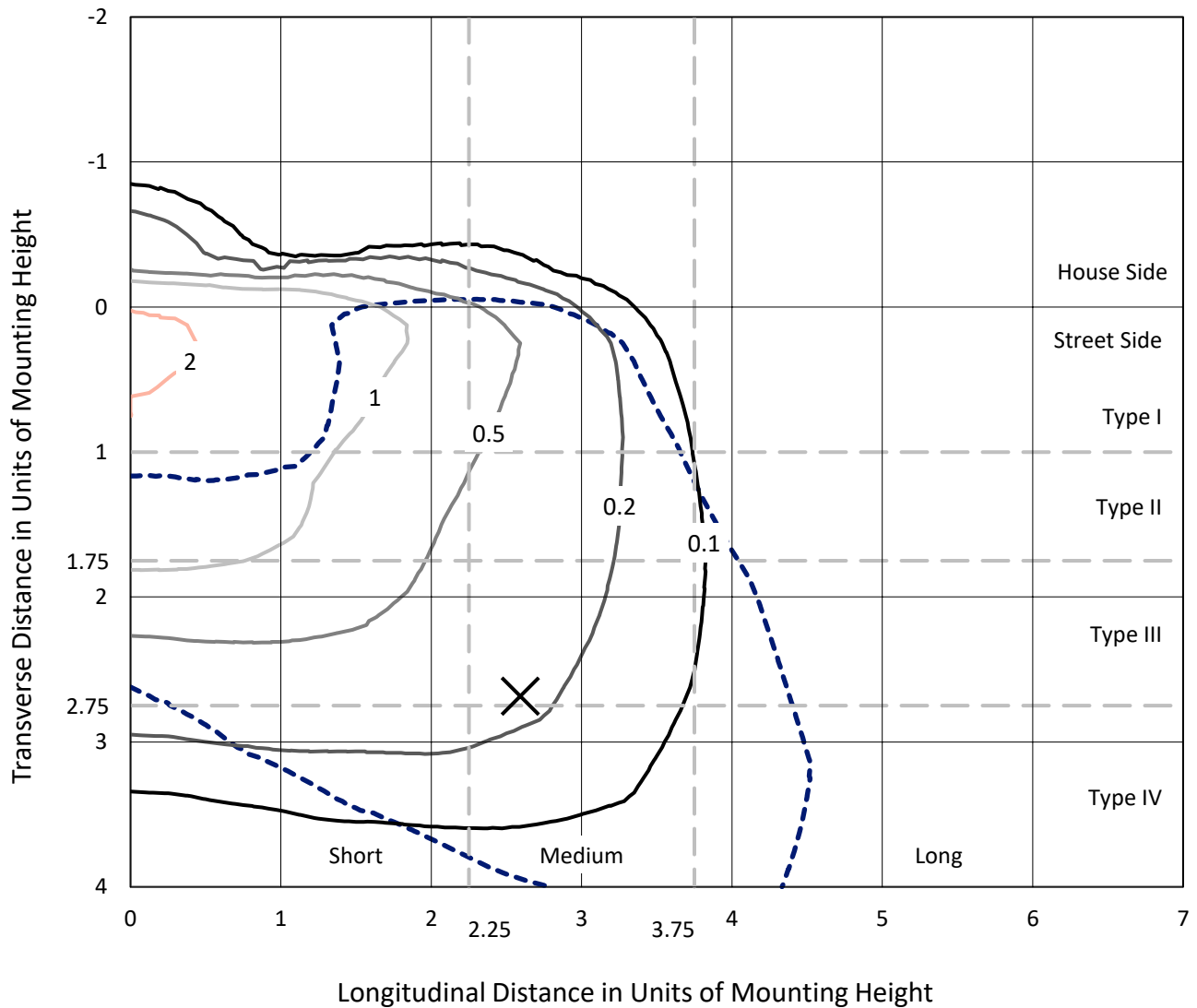
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399135
 CATALOG NUMBER: ARCH-L-PA3-100-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

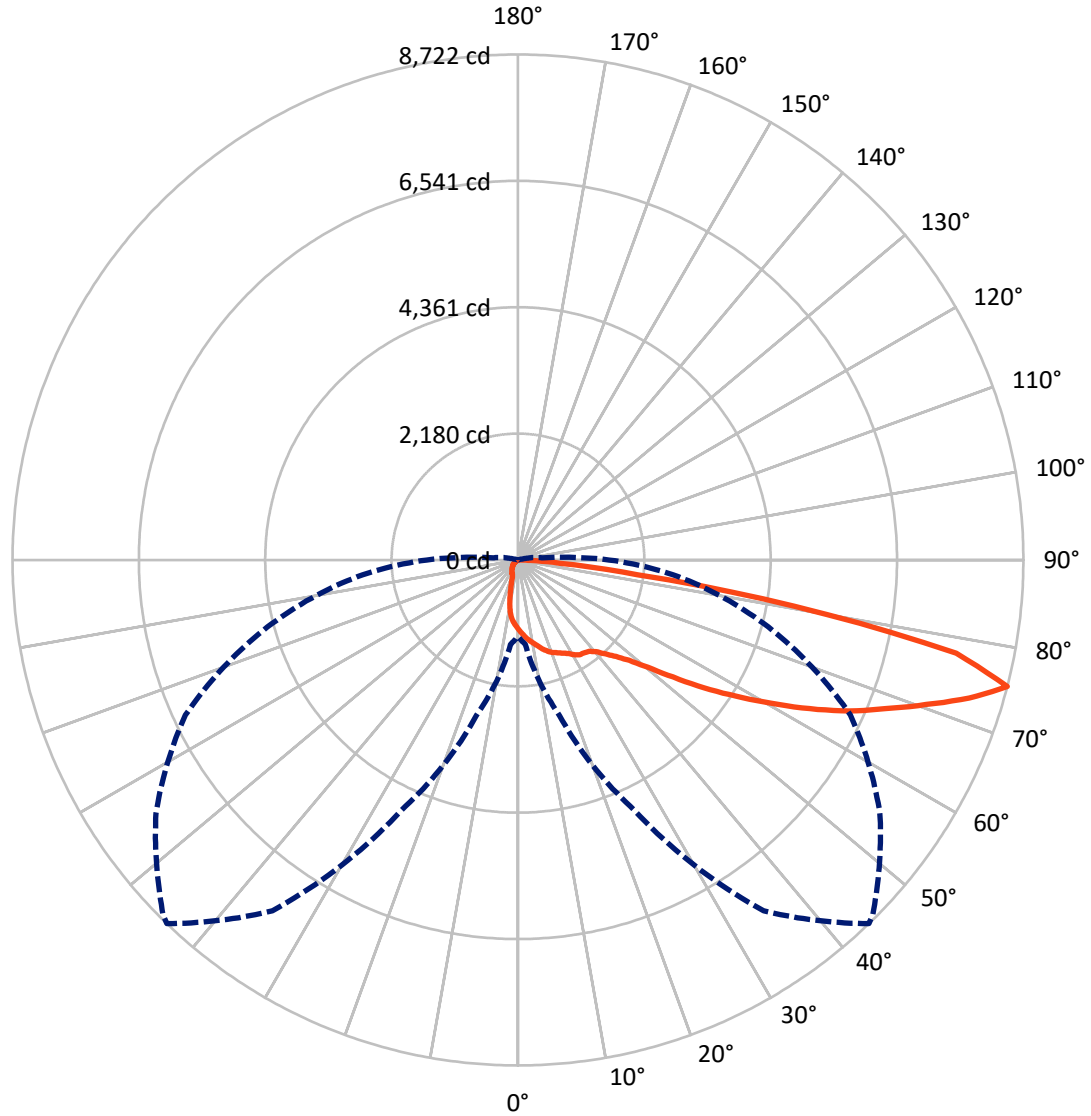
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399135
CATALOG NUMBER: ARCH-L-PA3-100-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P399135
 CATALOG NUMBER: ARCH-L-PA3-100-730-U-T4W-HSS

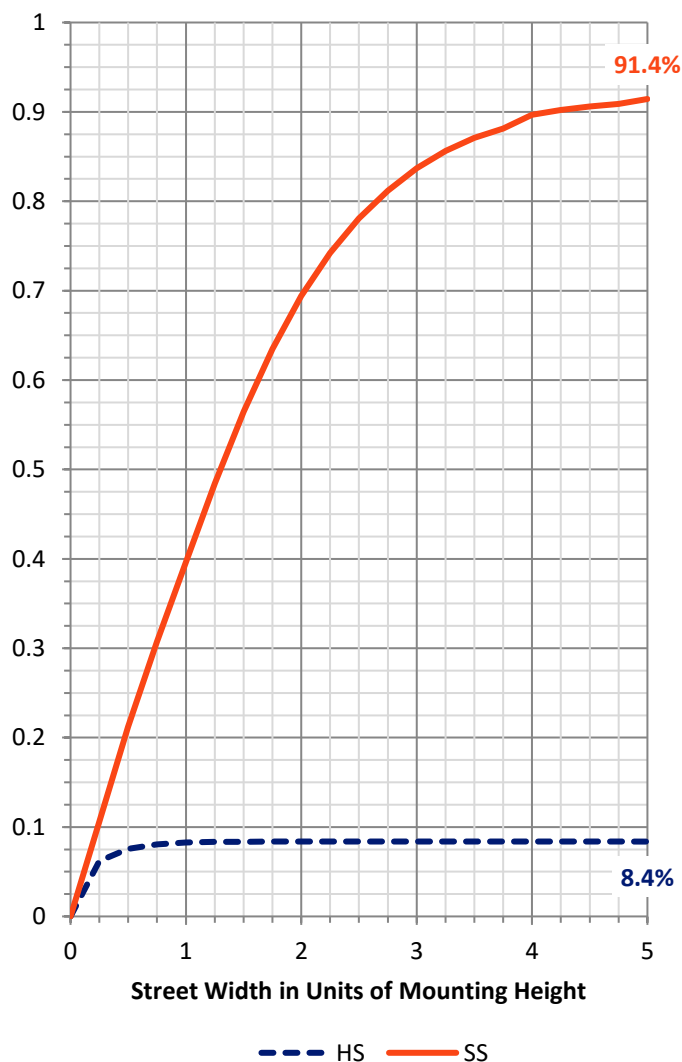
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	926.3	0.0	926.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10057.7	0.0	10057.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	10984.0	0.0	10984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	1.0
10°-20°	315.9	2.9
20°-30°	521.4	4.7
30°-40°	756.7	6.9
40°-50°	1230.1	11.2
50°-60°	2168.6	19.7
60°-70°	3116.7	28.4
70°-80°	2495.8	22.7
80°-90°	265.9	2.4
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°	10984.0	100.0
0°-180°	10984.0	100.0

Coefficient of Utilization



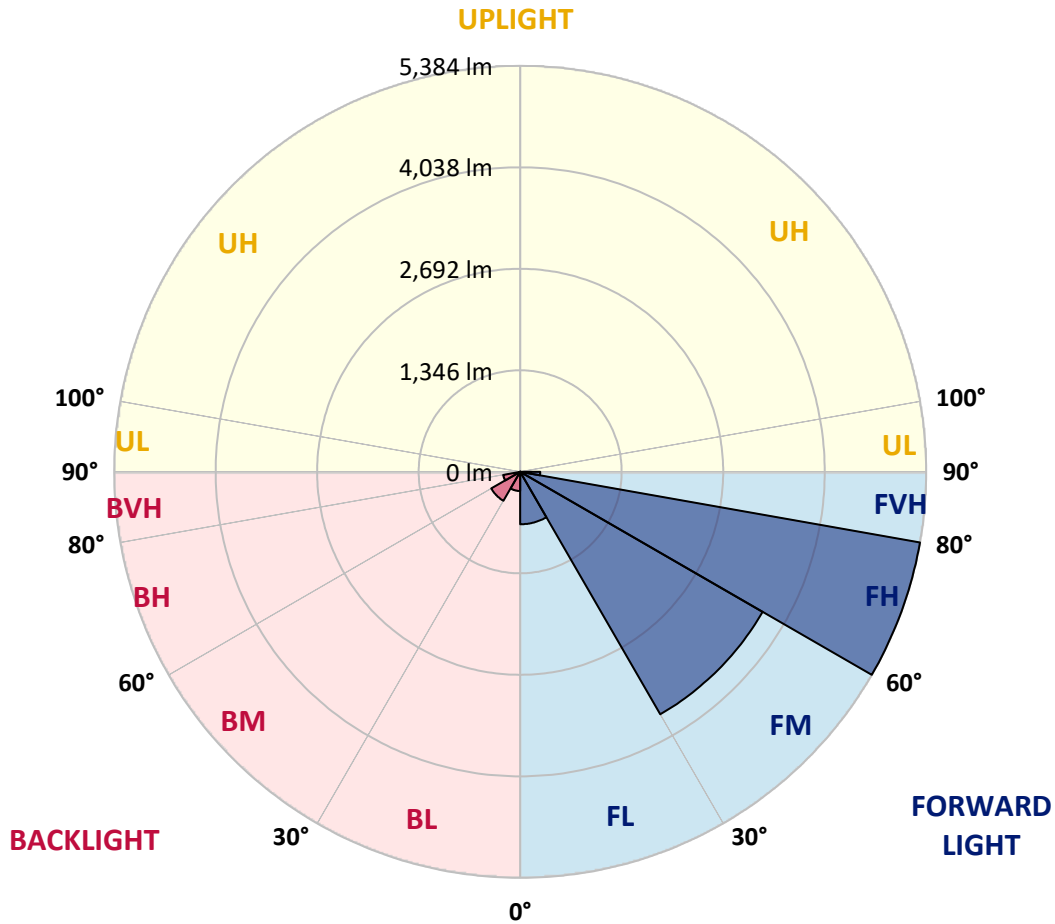
REPORT NUMBER: P399135
 CATALOG NUMBER: ARCH-L-PA3-100-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.6	6.3			
FM (30°-60°)	3712.7	33.8			
FH (60°-80°)	5384.2	49.0			G3/7500
FVH (80°-90°)	265.2	2.4			G3/500
BL (0°-30°)	254.5	2.3	B1/500		
BM (30°-60°)	442.8	4.0	B1/1000		
BH (60°-80°)	228.4	2.1	B1/500		G1/500
BVH (80°-90°)	0.7	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-G3

Type IV Medium





REPORT NUMBER: P399135

CATALOG NUMBER: ARCH-L-PA3-100-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6
2.5°	1303.0	1300.9	1294.9	1284.7	1274.6	1264.5	1262.4	1246.2	1228.0	1213.8	1201.6
5°	1418.5	1416.4	1406.3	1384.0	1361.7	1335.4	1333.4	1294.9	1260.4	1221.9	1189.5
7.5°	1538.0	1534.0	1515.7	1481.3	1442.8	1402.3	1398.2	1341.5	1290.8	1240.1	1193.5
10°	1631.2	1627.2	1600.8	1560.3	1507.6	1457.0	1450.9	1392.1	1341.5	1276.6	1213.8
12.5°	1722.4	1714.3	1679.9	1635.3	1570.4	1521.8	1515.7	1454.9	1394.2	1327.3	1250.3
15°	1807.5	1797.4	1765.0	1708.2	1639.3	1592.7	1588.7	1523.8	1461.0	1384.0	1298.9
17.5°	1866.3	1862.2	1823.7	1760.9	1694.1	1655.6	1651.5	1584.6	1521.8	1440.8	1349.6
20°	1896.7	1896.7	1860.2	1791.3	1730.5	1704.2	1698.1	1635.3	1574.5	1497.5	1402.3
22.5°	1902.8	1908.9	1880.5	1805.5	1760.9	1738.6	1734.6	1679.9	1621.1	1550.2	1461.0
25°	1914.9	1914.9	1900.7	1819.7	1787.3	1781.2	1779.2	1730.5	1677.8	1606.9	1519.8
27.5°	1929.1	1929.1	1919.0	1840.0	1827.8	1825.8	1823.7	1801.5	1758.9	1675.8	1588.7
30°	1965.6	1967.6	1959.5	1880.5	1872.4	1894.7	1898.7	1886.6	1833.9	1730.5	1659.6
32.5°	2056.8	2038.5	2016.3	1908.9	1923.0	1951.4	1953.4	1929.1	1872.4	1789.3	1744.7
35°	2285.8	2178.4	2077.0	1933.2	1939.2	1967.6	1971.7	1969.6	1935.2	1864.3	1842.0
37.5°	2498.5	2346.6	2202.7	1989.9	1969.6	2000.0	2008.1	2042.6	2016.3	1967.6	1973.7
40°	2622.1	2563.4	2462.1	2145.9	2030.4	2077.0	2085.1	2137.8	2127.7	2107.4	2145.9
42.5°	3003.1	3007.2	2897.7	2379.0	2141.9	2216.9	2227.0	2269.6	2283.7	2293.9	2387.1
45°	3444.9	3459.0	3432.7	2798.4	2352.6	2376.9	2391.1	2447.9	2500.6	2565.4	2735.6
47.5°	3975.8	3963.6	3866.3	3311.1	2719.4	2583.6	2593.8	2703.2	2794.4	2936.2	3179.4
50°	4445.9	4476.3	4291.9	3789.3	3236.1	2909.9	2899.8	3007.2	3171.3	3369.9	3675.9
52.5°	4920.1	4875.5	4626.2	4263.5	3848.1	3353.7	3323.3	3382.0	3613.0	3848.1	4162.2
55°	5045.7	5049.7	4964.6	4782.3	4358.8	3892.7	3842.0	3838.0	4125.7	4285.8	4672.8
57.5°	5292.9	5303.0	5323.3	5359.8	5159.2	4431.7	4379.0	4322.3	4601.9	4695.1	5185.5
60°	5544.2	5556.3	5680.0	5876.5	5742.8	5013.3	4956.5	4822.8	4978.8	5104.5	5724.5
62.5°	5511.8	5596.9	5955.5	6346.6	6330.4	5651.6	5580.7	5258.5	5357.8	5467.2	6219.0
65°	4976.8	5068.0	5874.5	6476.3	6920.1	6281.8	6166.3	5708.3	5714.4	5846.1	6695.2
67.5°	4498.6	4597.9	5367.9	6421.6	7309.2	6847.2	6727.6	6160.2	6065.0	6283.8	6950.5
70°	4223.0	4322.3	4964.6	6251.4	7418.6	7473.3	7370.0	6676.9	6482.4	6683.0	6664.8
72.5°	3305.0	3461.1	4449.9	5927.2	7536.1	8144.0	8063.0	7331.5	6837.0	6265.6	5074.1
75°	1317.1	1461.0	2778.2	4770.1	7388.2	8721.6	8658.7	7625.3	6328.4	4474.3	2597.8
77.5°	397.2	425.5	772.1	2358.7	5416.5	7732.7	7712.4	6411.5	4478.3	2077.0	709.2
80°	131.7	145.9	237.1	650.5	2472.2	4830.9	4922.1	4085.2	2034.5	476.2	143.9
82.5°	54.7	60.8	119.6	261.4	875.4	2081.1	2050.7	1829.8	709.2	295.9	52.7
85°	14.2	18.2	54.7	150.0	320.2	717.3	753.8	614.0	401.2	245.2	16.2
87.5°	0.0	0.0	26.3	60.8	143.9	216.8	227.0	186.4	227.0	184.4	8.1
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: P399135

CATALOG NUMBER: ARCH-L-PA3-100-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6
2.5°	1191.5	1181.4	1163.1	1151.0	1134.8	1130.7	1122.6	1112.5	1110.5	1100.3	1102.4
5°	1171.3	1155.0	1122.6	1100.3	1074.0	1065.9	1051.7	1041.6	1033.5	1019.3	1021.3
7.5°	1167.2	1142.9	1098.3	1055.7	1013.2	982.8	940.2	905.8	877.4	847.0	853.1
10°	1181.4	1151.0	1088.2	1029.4	952.4	855.1	743.7	670.7	634.3	597.8	601.8
12.5°	1209.8	1173.3	1092.2	1003.1	847.0	680.9	526.9	427.6	401.2	385.0	387.0
15°	1252.3	1207.7	1104.4	952.4	705.2	492.4	350.6	308.0	318.1	324.2	324.2
17.5°	1296.9	1246.2	1114.5	861.2	545.1	344.5	285.7	281.7	295.9	310.0	310.0
20°	1351.6	1286.8	1116.5	745.7	393.1	279.6	269.5	269.5	279.6	295.9	295.9
22.5°	1404.3	1331.3	1098.3	614.0	299.9	259.4	259.4	259.4	265.5	281.7	283.7
25°	1467.1	1386.0	1059.8	474.2	257.4	247.2	247.2	249.2	253.3	267.5	269.5
27.5°	1534.0	1442.8	995.0	346.5	235.1	233.0	235.1	237.1	239.1	253.3	257.4
30°	1611.0	1505.6	911.9	259.4	214.8	214.8	220.9	224.9	224.9	237.1	241.1
32.5°	1700.1	1588.7	812.6	214.8	194.5	192.5	202.6	208.7	208.7	218.8	222.9
35°	1811.6	1673.8	693.0	190.5	178.3	174.3	178.3	188.5	192.5	200.6	202.6
37.5°	1959.5	1775.1	565.4	176.3	166.2	158.1	158.1	160.1	168.2	176.3	178.3
40°	2148.0	1886.6	439.7	166.2	154.0	145.9	139.8	137.8	135.8	141.8	145.9
42.5°	2385.1	2012.2	328.3	156.0	143.9	131.7	123.6	115.5	105.4	103.3	105.4
45°	2689.0	2166.2	243.2	147.9	137.8	119.6	105.4	91.2	72.9	66.9	68.9
47.5°	3047.7	2326.3	190.5	139.8	133.7	105.4	87.1	62.8	44.6	40.5	42.6
50°	3428.6	2480.3	162.1	129.7	125.6	91.2	62.8	38.5	26.3	26.3	28.4
52.5°	3752.9	2567.4	147.9	121.6	113.5	75.0	40.5	22.3	16.2	16.2	18.2
55°	4067.0	2614.0	137.8	113.5	97.3	52.7	22.3	14.2	10.1	10.1	10.1
57.5°	4391.2	2634.3	125.6	103.3	77.0	32.4	12.2	8.1	6.1	6.1	6.1
60°	4678.9	2595.8	107.4	85.1	50.7	16.2	6.1	6.1	4.1	2.0	2.0
62.5°	4920.1	2522.8	75.0	60.8	30.4	8.1	4.1	2.0	0.0	0.0	0.0
65°	5068.0	2405.3	48.6	40.5	18.2	6.1	2.0	0.0	0.0	0.0	0.0
67.5°	5025.4	2184.4	30.4	26.3	8.1	4.1	2.0	0.0	0.0	0.0	0.0
70°	4535.0	1791.3	22.3	16.2	6.1	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	3268.6	1211.8	16.2	10.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1572.5	431.6	10.1	8.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	385.0	95.2	6.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	85.1	18.2	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.4	8.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	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)