

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: P399324

Luminaire Tested: **ARCH-L-PA3-120-830-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399324
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-PA3-120-830-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 530mA 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: 11291 lumens
Efficiency: N/A
Efficacy: 91.8 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

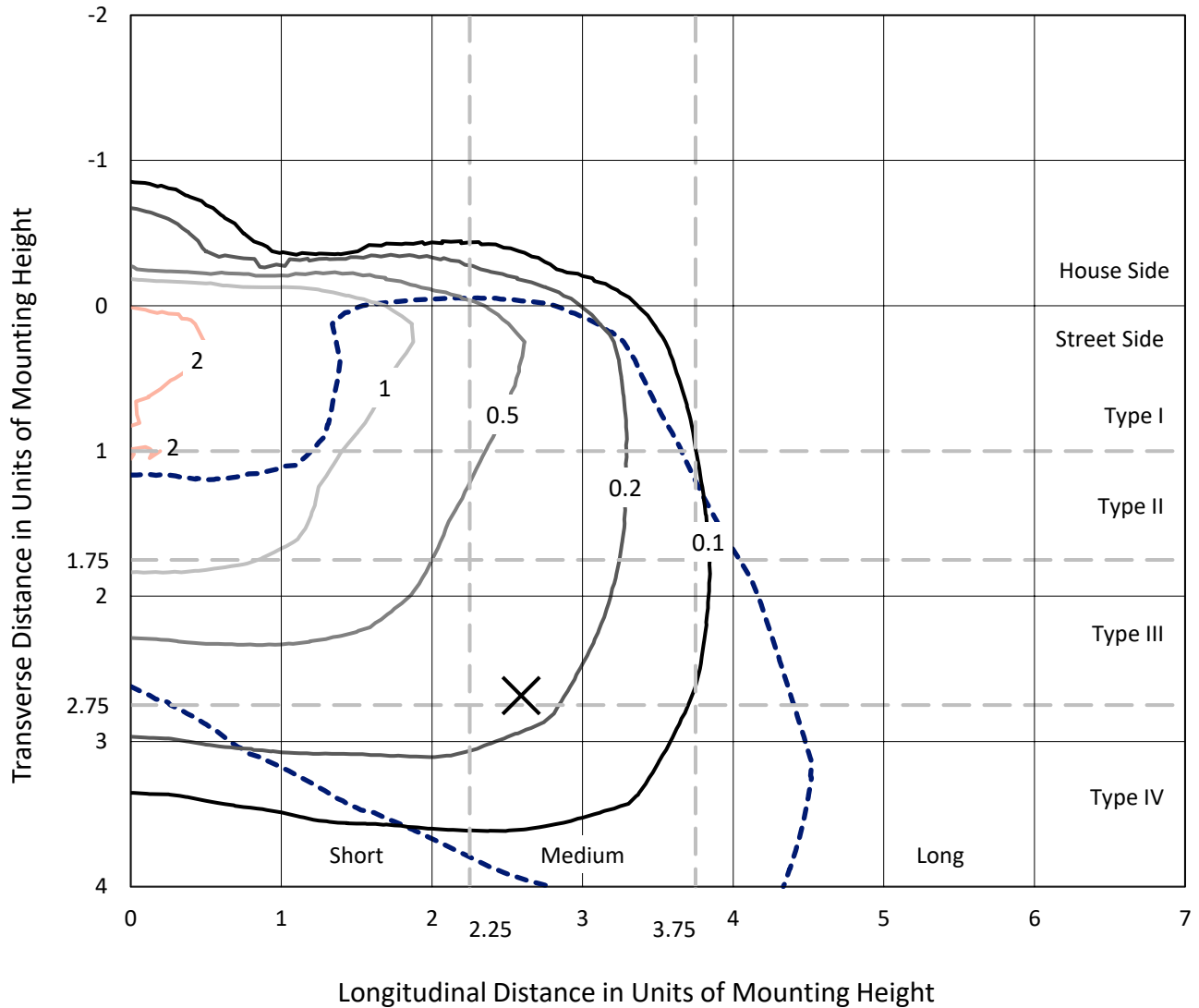
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

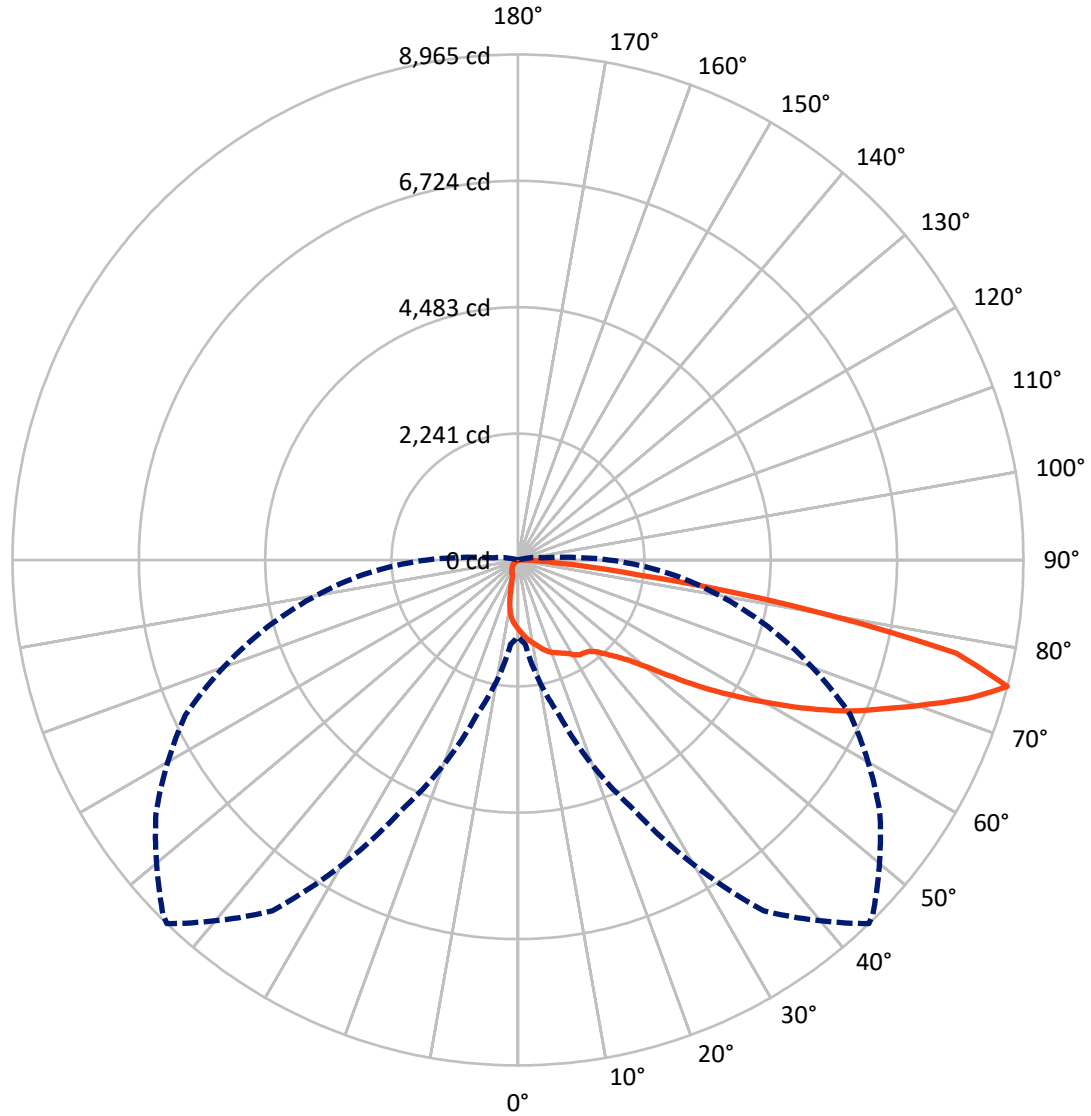
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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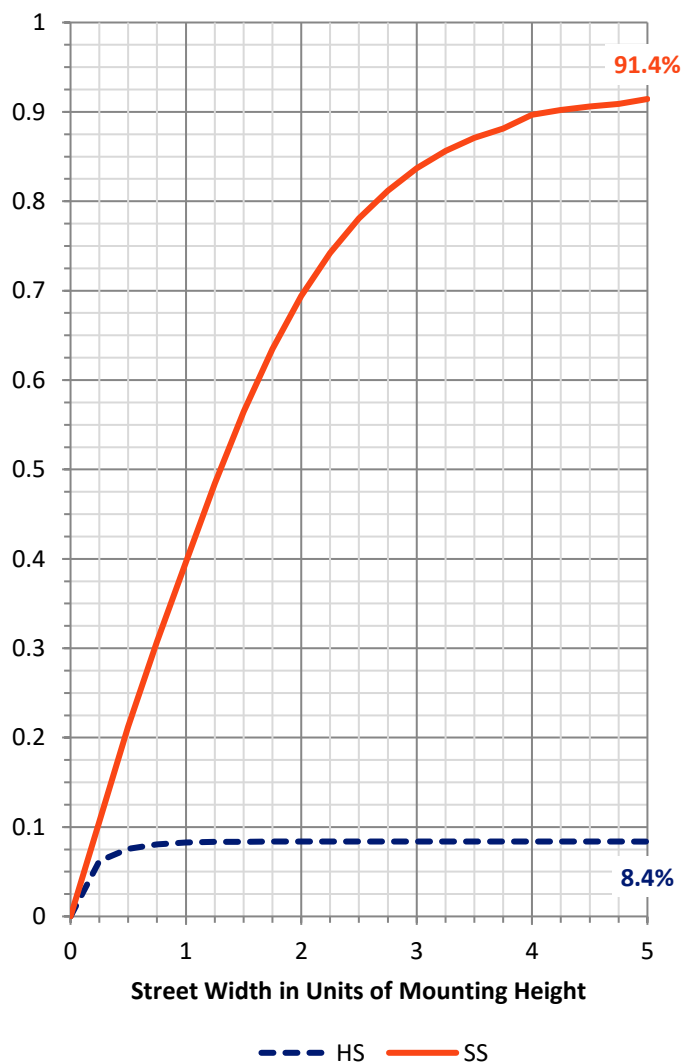
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	952.2	0.0	952.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10338.8	0.0	10338.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	11291.0	0.0	11291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	1.0
10°-20°	324.8	2.9
20°-30°	536.0	4.7
30°-40°	777.9	6.9
40°-50°	1264.5	11.2
50°-60°	2229.2	19.7
60°-70°	3203.8	28.4
70°-80°	2565.6	22.7
80°-90°	273.3	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°	11291.0	100.0
0°-180°	11291.0	100.0

Coefficient of Utilization



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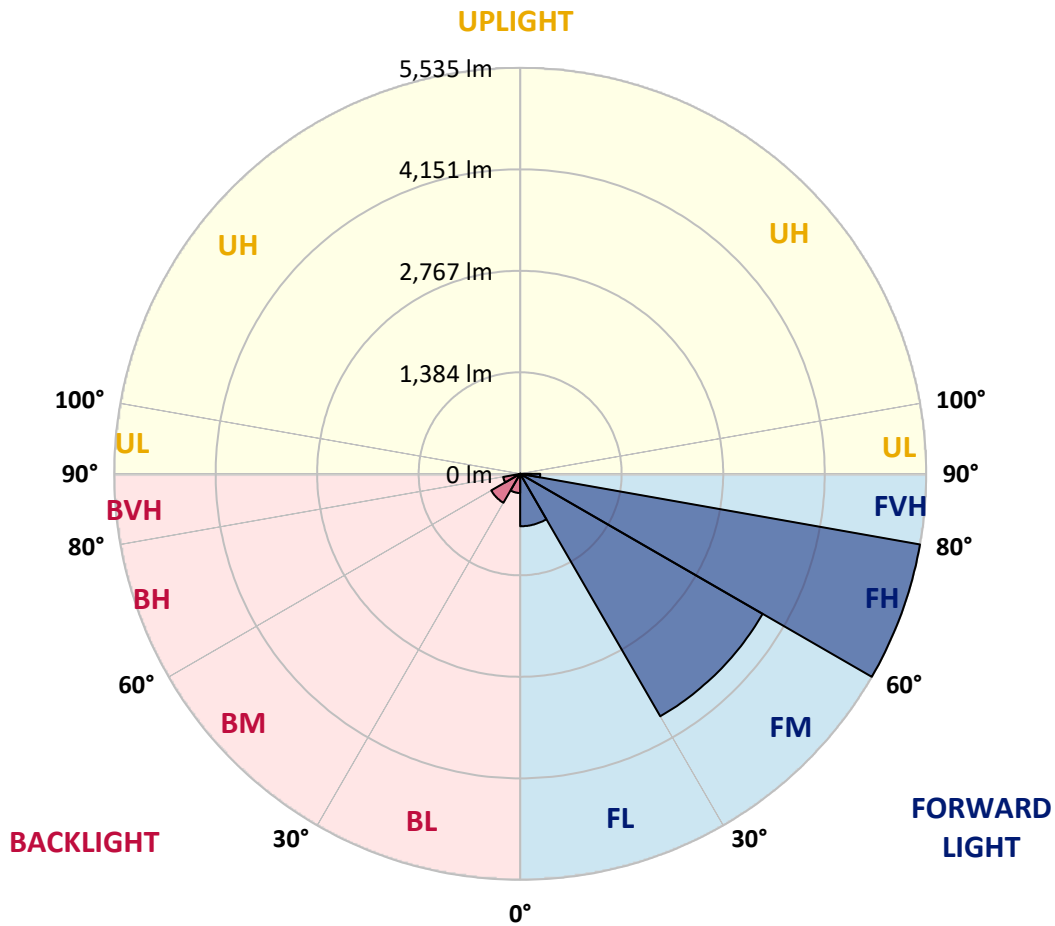
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.0	6.3			
FM (30°-60°)	3816.5	33.8			
FH (60°-80°)	5534.6	49.0			G3/7500
FVH (80°-90°)	272.7	2.4			G3/500
BL (0°-30°)	261.6	2.3	B1/500		
BM (30°-60°)	455.2	4.0	B1/1000		
BH (60°-80°)	234.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0
2.5°	1339.4	1337.3	1331.1	1320.6	1310.2	1299.8	1297.7	1281.1	1262.3	1247.7	1235.2
5°	1458.1	1456.0	1445.6	1422.7	1399.8	1372.7	1370.6	1331.1	1295.6	1256.1	1222.7
7.5°	1581.0	1576.8	1558.1	1522.7	1483.1	1441.5	1437.3	1379.0	1326.9	1274.8	1226.9
10°	1676.8	1672.7	1645.6	1603.9	1549.8	1497.7	1491.4	1431.0	1379.0	1312.3	1247.7
12.5°	1770.6	1762.2	1726.8	1681.0	1614.3	1564.3	1558.1	1495.6	1433.1	1364.4	1285.2
15°	1858.1	1847.6	1814.3	1756.0	1685.2	1637.3	1633.1	1566.4	1501.9	1422.7	1335.2
17.5°	1918.5	1914.3	1874.7	1810.1	1741.4	1701.8	1697.7	1628.9	1564.3	1481.0	1387.3
20°	1949.7	1949.7	1912.2	1841.4	1778.9	1751.8	1745.6	1681.0	1618.5	1539.4	1441.5
22.5°	1956.0	1962.2	1933.0	1856.0	1810.1	1787.2	1783.1	1726.8	1666.4	1593.5	1501.9
25°	1968.5	1968.5	1953.9	1870.6	1837.2	1831.0	1828.9	1778.9	1724.7	1651.8	1562.3
27.5°	1983.0	1983.0	1972.6	1891.4	1878.9	1876.8	1874.7	1851.8	1808.1	1722.7	1633.1
30°	2020.5	2022.6	2014.3	1933.0	1924.7	1947.6	1951.8	1939.3	1885.1	1778.9	1706.0
32.5°	2114.3	2095.5	2072.6	1962.2	1976.8	2005.9	2008.0	1983.0	1924.7	1839.3	1793.5
35°	2349.6	2239.2	2135.1	1987.2	1993.5	2022.6	2026.8	2024.7	1989.3	1916.4	1893.5
37.5°	2568.4	2412.1	2264.2	2045.5	2024.7	2055.9	2064.3	2099.7	2072.6	2022.6	2028.9
40°	2695.4	2635.0	2530.9	2205.9	2087.2	2135.1	2143.4	2197.6	2187.2	2166.3	2205.9
42.5°	3087.0	3091.2	2978.7	2445.5	2201.8	2278.8	2289.2	2333.0	2347.6	2358.0	2453.8
45°	3541.1	3555.7	3528.6	2876.7	2418.4	2443.4	2458.0	2516.3	2570.4	2637.1	2812.1
47.5°	4086.9	4074.4	3974.4	3403.7	2795.4	2655.9	2666.3	2778.8	2872.5	3018.3	3268.3
50°	4570.1	4601.4	4411.8	3895.2	3326.6	2991.2	2980.8	3091.2	3259.9	3464.1	3778.6
52.5°	5057.6	5011.7	4755.5	4382.7	3955.7	3447.4	3416.2	3476.6	3714.0	3955.7	4278.5
55°	5186.7	5190.9	5103.4	4915.9	4480.6	4001.5	3949.4	3945.2	4241.0	4405.6	4803.4
57.5°	5440.9	5451.3	5472.1	5509.6	5303.4	4555.6	4501.4	4443.1	4730.5	4826.4	5330.5
60°	5699.1	5711.6	5838.7	6040.8	5903.3	5153.4	5095.1	4957.6	5118.0	5247.1	5884.5
62.5°	5665.8	5753.3	6122.0	6524.0	6507.4	5809.5	5736.6	5405.4	5507.5	5620.0	6392.8
65°	5115.9	5209.6	6038.7	6657.3	7113.5	6457.4	6338.6	5867.9	5874.1	6009.5	6882.3
67.5°	4624.3	4726.4	5517.9	6601.1	7513.5	7038.5	6915.6	6332.4	6234.5	6459.4	7144.8
70°	4341.0	4443.1	5103.4	6426.1	7625.9	7682.2	7575.9	6863.6	6663.6	6869.8	6851.1
72.5°	3397.4	3557.8	4574.3	6092.8	7746.8	8371.7	8288.3	7536.4	7028.1	6440.7	5215.9
75°	1354.0	1501.9	2855.8	4903.4	7594.7	8965.3	8900.7	7838.4	6505.3	4599.3	2670.4
77.5°	408.3	437.4	793.6	2424.6	5567.9	7948.8	7928.0	6590.7	4603.5	2135.1	729.1
80°	135.4	150.0	243.7	668.6	2541.3	4965.9	5059.7	4199.4	2091.4	489.5	147.9
82.5°	56.2	62.5	122.9	268.7	899.9	2139.3	2108.0	1881.0	729.1	304.1	54.2
85°	14.6	18.7	56.2	154.1	329.1	737.4	774.9	631.2	412.4	252.0	16.7
87.5°	0.0	0.0	27.1	62.5	147.9	222.9	233.3	191.6	233.3	189.6	8.3
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°	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0
2.5°	1224.8	1214.4	1195.7	1183.2	1166.5	1162.3	1154.0	1143.6	1141.5	1131.1	1133.2
5°	1204.0	1187.3	1154.0	1131.1	1104.0	1095.7	1081.1	1070.7	1062.3	1047.8	1049.8
7.5°	1199.8	1174.8	1129.0	1085.3	1041.5	1010.3	966.5	931.1	901.9	870.7	877.0
10°	1214.4	1183.2	1118.6	1058.2	979.0	879.0	764.5	689.5	652.0	614.5	618.7
12.5°	1243.6	1206.1	1122.7	1031.1	870.7	699.9	541.6	439.5	412.4	395.8	397.9
15°	1287.3	1241.5	1135.2	979.0	724.9	506.2	360.4	316.6	327.0	333.3	333.3
17.5°	1333.1	1281.1	1145.7	885.3	560.3	354.1	293.7	289.5	304.1	318.7	318.7
20°	1389.4	1322.7	1147.7	766.6	404.1	287.5	277.0	277.0	287.5	304.1	304.1
22.5°	1443.5	1368.5	1129.0	631.2	308.3	266.6	266.6	266.6	272.9	289.5	291.6
25°	1508.1	1424.8	1089.4	487.4	264.5	254.1	254.1	256.2	260.4	275.0	277.0
27.5°	1576.8	1483.1	1022.8	356.2	241.6	239.5	241.6	243.7	245.8	260.4	264.5
30°	1656.0	1547.7	937.4	266.6	220.8	220.8	227.0	231.2	231.2	243.7	247.9
32.5°	1747.7	1633.1	835.3	220.8	200.0	197.9	208.3	214.6	214.6	225.0	229.1
35°	1862.2	1720.6	712.4	195.8	183.3	179.1	183.3	193.7	197.9	206.2	208.3
37.5°	2014.3	1824.7	581.2	181.2	170.8	162.5	162.5	164.6	172.9	181.2	183.3
40°	2208.0	1939.3	452.0	170.8	158.3	150.0	143.7	141.6	139.6	145.8	150.0
42.5°	2451.7	2068.4	337.4	160.4	147.9	135.4	127.1	118.7	108.3	106.2	108.3
45°	2764.2	2226.7	250.0	152.1	141.6	122.9	108.3	93.7	75.0	68.7	70.8
47.5°	3132.9	2391.3	195.8	143.7	137.5	108.3	89.6	64.6	45.8	41.7	43.7
50°	3524.5	2549.6	166.6	133.3	129.1	93.7	64.6	39.6	27.1	27.1	29.2
52.5°	3857.8	2639.2	152.1	125.0	116.6	77.1	41.7	22.9	16.7	16.7	18.7
55°	4180.6	2687.1	141.6	116.6	100.0	54.2	22.9	14.6	10.4	10.4	10.4
57.5°	4513.9	2707.9	129.1	106.2	79.2	33.3	12.5	8.3	6.2	6.2	6.2
60°	4809.7	2668.4	110.4	87.5	52.1	16.7	6.2	6.2	4.2	2.1	2.1
62.5°	5057.6	2593.4	77.1	62.5	31.2	8.3	4.2	2.1	0.0	0.0	0.0
65°	5209.6	2472.5	50.0	41.7	18.7	6.2	2.1	0.0	0.0	0.0	0.0
67.5°	5165.9	2245.5	31.2	27.1	8.3	4.2	2.1	0.0	0.0	0.0	0.0
70°	4661.8	1841.4	22.9	16.7	6.2	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	3359.9	1245.6	16.7	10.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	1616.4	443.7	10.4	8.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	395.8	97.9	6.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.5	18.7	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.2	8.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	2.1	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)