

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: P399126

Luminaire Tested: **ARCH-L-PA3-100-727-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399126
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-PA3-100-727-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 10087 lumens
Efficiency: N/A
Efficacy: 98.9 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

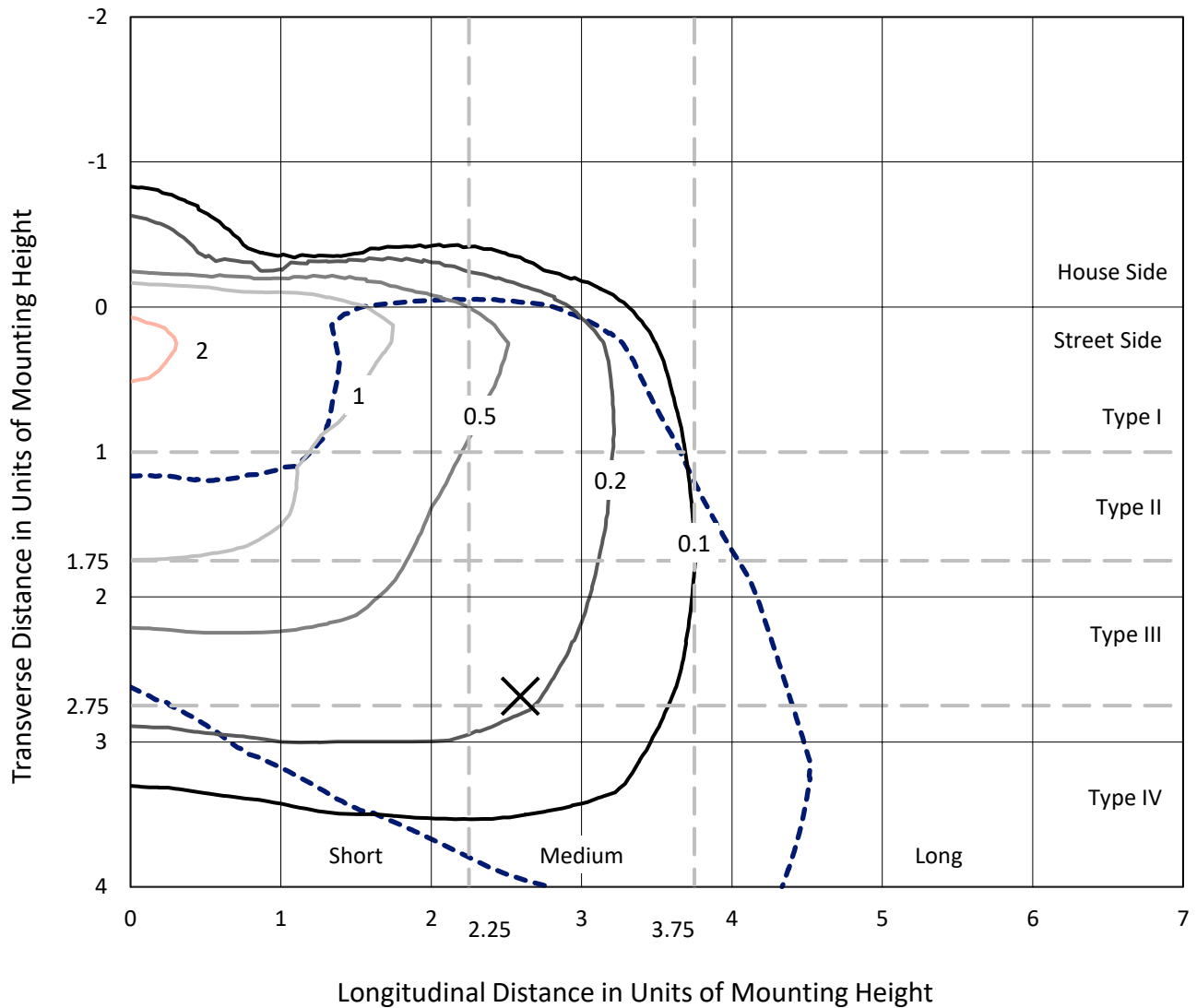
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

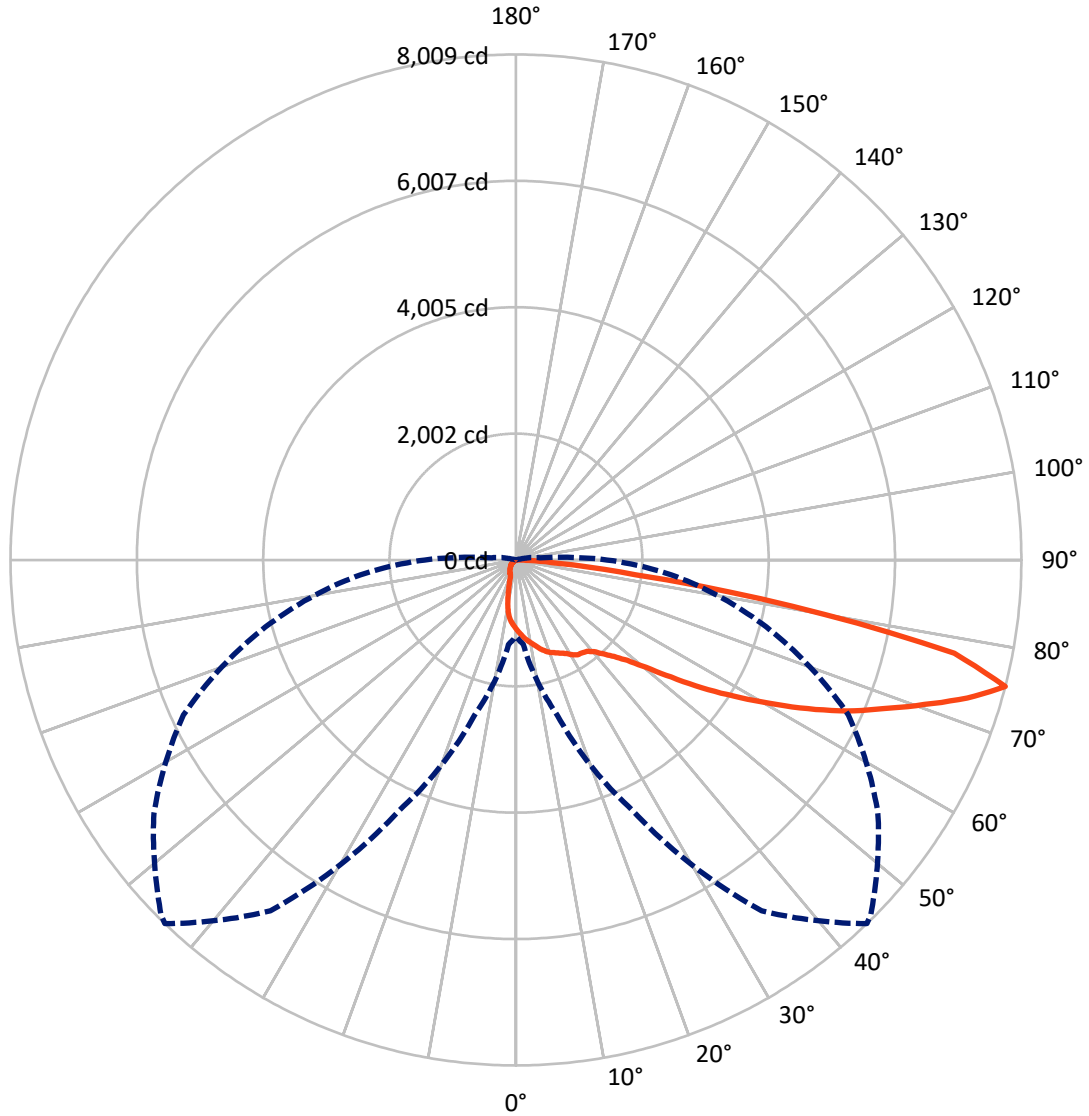
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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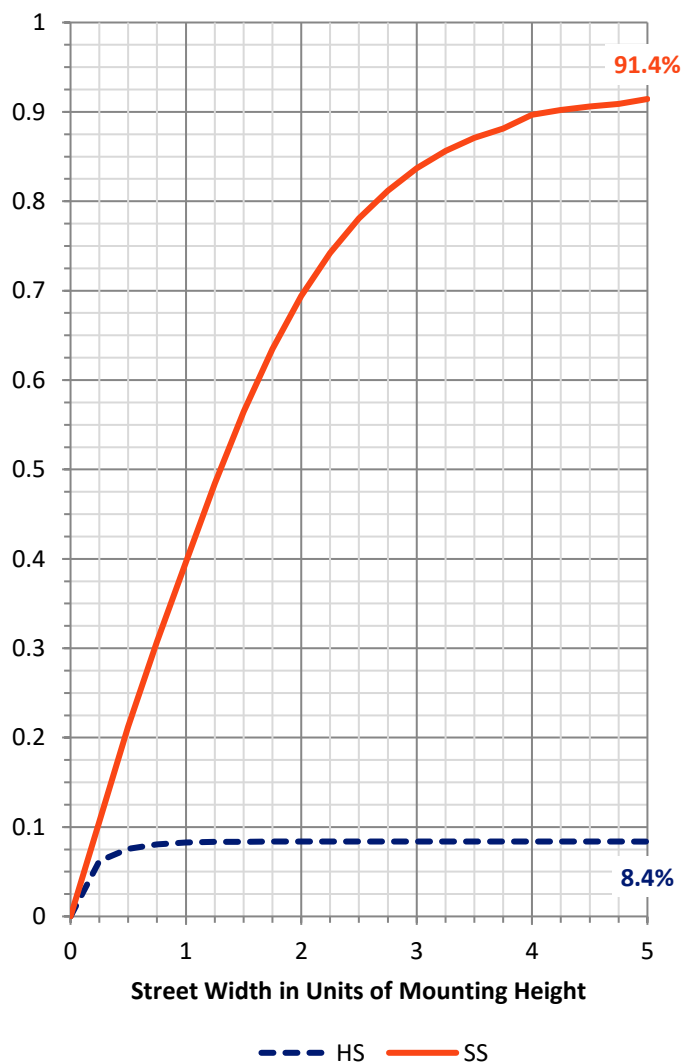
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.7	0.0	850.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	9236.3	0.0	9236.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	10087.0	0.0	10087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	1.0
10°-20°	290.1	2.9
20°-30°	478.8	4.7
30°-40°	694.9	6.9
40°-50°	1129.7	11.2
50°-60°	1991.5	19.7
60°-70°	2862.2	28.4
70°-80°	2292.0	22.7
80°-90°	244.2	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°	10087.0	100.0
0°-180°	10087.0	100.0

Coefficient of Utilization



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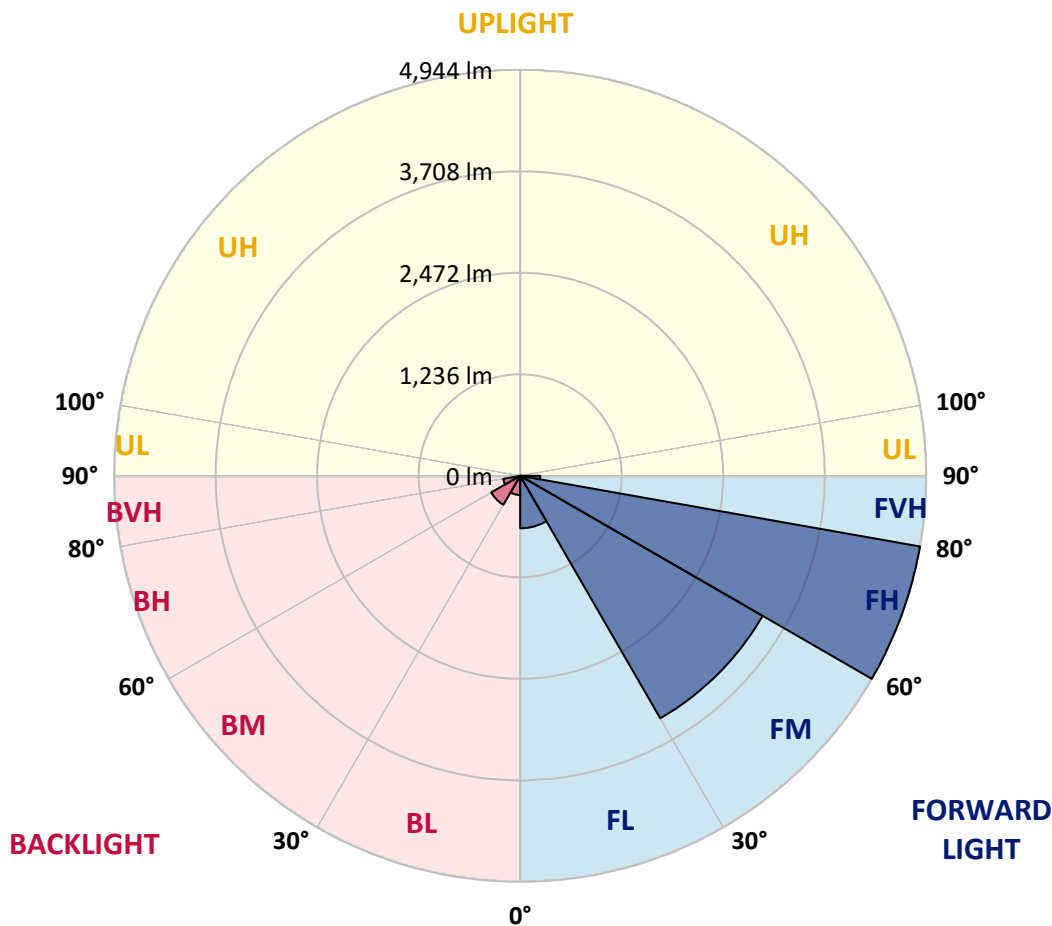
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	638.8	6.3			
FM (30°-60°)	3409.5	33.8			
FH (60°-80°)	4944.5	49.0			G2/5000
FVH (80°-90°)	243.6	2.4			G3/500
BL (0°-30°)	233.7	2.3	B1/500		
BM (30°-60°)	406.6	4.0	B1/1000		
BH (60°-80°)	209.7	2.1	B1/500		G1/500
BVH (80°-90°)	0.6	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°	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9
2.5°	1196.6	1194.7	1189.1	1179.8	1170.5	1161.2	1159.3	1144.5	1127.7	1114.7	1103.5
5°	1302.6	1300.8	1291.5	1271.0	1250.5	1226.3	1224.5	1189.1	1157.5	1122.1	1092.3
7.5°	1412.4	1408.7	1392.0	1360.3	1325.0	1287.7	1284.0	1231.9	1185.4	1138.9	1096.1
10°	1498.0	1494.3	1470.1	1432.9	1384.5	1338.0	1332.4	1278.4	1231.9	1172.4	1114.7
12.5°	1581.8	1574.3	1542.7	1501.7	1442.2	1397.5	1392.0	1336.1	1280.3	1218.9	1148.2
15°	1659.9	1650.6	1620.8	1568.7	1505.5	1462.7	1458.9	1399.4	1341.7	1271.0	1192.8
17.5°	1713.9	1710.2	1674.8	1617.1	1555.7	1520.4	1516.6	1455.2	1397.5	1323.1	1239.4
20°	1741.8	1741.8	1708.3	1645.0	1589.2	1565.0	1559.4	1501.7	1445.9	1375.2	1287.7
22.5°	1747.4	1753.0	1726.9	1658.1	1617.1	1596.7	1592.9	1542.7	1488.7	1423.6	1341.7
25°	1758.6	1758.6	1745.5	1671.1	1641.3	1635.7	1633.9	1589.2	1540.8	1475.7	1395.7
27.5°	1771.6	1771.6	1762.3	1689.7	1678.5	1676.7	1674.8	1654.3	1615.3	1539.0	1458.9
30°	1805.1	1806.9	1799.5	1726.9	1719.5	1739.9	1743.7	1732.5	1684.1	1589.2	1524.1
32.5°	1888.8	1872.1	1851.6	1753.0	1766.0	1792.0	1793.9	1771.6	1719.5	1643.2	1602.2
35°	2099.1	2000.5	1907.4	1775.3	1780.9	1806.9	1810.7	1808.8	1777.2	1712.0	1691.6
37.5°	2294.5	2154.9	2022.8	1827.4	1808.8	1836.7	1844.2	1875.8	1851.6	1806.9	1812.5
40°	2408.0	2354.0	2261.0	1970.7	1864.6	1907.4	1914.9	1963.3	1953.9	1935.3	1970.7
42.5°	2757.9	2761.6	2661.1	2184.7	1967.0	2035.8	2045.1	2084.2	2097.2	2106.5	2192.1
45°	3163.5	3176.6	3152.4	2569.9	2160.5	2182.8	2195.9	2248.0	2296.4	2355.9	2512.2
47.5°	3651.1	3639.9	3550.6	3040.7	2497.3	2372.6	2382.0	2482.4	2566.2	2696.4	2919.8
50°	4082.8	4110.7	3941.4	3479.9	2971.9	2672.3	2662.9	2761.6	2912.3	3094.7	3375.7
52.5°	4518.3	4477.3	4248.4	3915.3	3533.9	3079.8	3051.9	3105.8	3318.0	3533.9	3822.3
55°	4633.6	4637.4	4559.2	4391.7	4002.8	3574.8	3528.3	3524.5	3788.8	3935.8	4291.2
57.5°	4860.7	4870.0	4888.6	4922.1	4737.9	4069.8	4021.4	3969.3	4226.1	4311.7	4762.0
60°	5091.4	5102.6	5216.1	5396.6	5273.8	4603.9	4551.8	4428.9	4572.2	4687.6	5257.0
62.5°	5061.7	5139.8	5469.2	5828.3	5813.5	5190.1	5124.9	4829.0	4920.2	5020.7	5711.1
65°	4570.4	4654.1	5394.8	5947.4	6355.0	5768.8	5662.7	5242.2	5247.7	5368.7	6148.4
67.5°	4131.2	4222.4	4929.5	5897.2	6712.3	6288.0	6178.2	5657.1	5569.7	5770.7	6382.9
70°	3878.1	3969.3	4559.2	5740.9	6812.8	6863.0	6768.1	6131.7	5953.0	6137.3	6120.5
72.5°	3035.1	3178.4	4086.5	5443.1	6920.7	7479.0	7404.5	6732.7	6278.7	5753.9	4659.7
75°	1209.6	1341.7	2551.3	4380.6	6784.8	8009.3	7951.6	7002.6	5811.6	4108.9	2385.7
77.5°	364.7	390.8	709.0	2166.1	4974.2	7101.2	7082.6	5887.9	4112.6	1907.4	651.3
80°	121.0	134.0	217.7	597.3	2270.3	4436.4	4520.1	3751.6	1868.3	437.3	132.1
82.5°	50.2	55.8	109.8	240.1	803.9	1911.1	1883.2	1680.4	651.3	271.7	48.4
85°	13.0	16.7	50.2	137.7	294.0	658.8	692.3	563.9	368.5	225.2	14.9
87.5°	0.0	0.0	24.2	55.8	132.1	199.1	208.4	171.2	208.4	169.3	7.4
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°	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9
2.5°	1094.2	1084.9	1068.2	1057.0	1042.1	1038.4	1030.9	1021.6	1019.8	1010.5	1012.3
5°	1075.6	1060.7	1030.9	1010.5	986.3	978.8	965.8	956.5	949.1	936.0	937.9
7.5°	1071.9	1049.5	1008.6	969.5	930.5	902.5	863.5	831.8	805.8	777.9	783.4
10°	1084.9	1057.0	999.3	945.3	874.6	785.3	683.0	616.0	582.5	549.0	552.7
12.5°	1111.0	1077.5	1003.0	921.1	777.9	625.3	483.8	392.7	368.5	353.6	355.4
15°	1150.0	1109.1	1014.2	874.6	647.6	452.2	321.9	282.9	292.2	297.7	297.7
17.5°	1191.0	1144.5	1023.5	790.9	500.6	316.4	262.4	258.7	271.7	284.7	284.7
20°	1241.2	1181.7	1025.4	684.8	361.0	256.8	247.5	247.5	256.8	271.7	271.7
22.5°	1289.6	1222.6	1008.6	563.9	275.4	238.2	238.2	238.2	243.8	258.7	260.5
25°	1347.3	1272.9	973.3	435.5	236.3	227.0	227.0	228.9	232.6	245.6	247.5
27.5°	1408.7	1325.0	913.7	318.2	215.9	214.0	215.9	217.7	219.6	232.6	236.3
30°	1479.4	1382.6	837.4	238.2	197.3	197.3	202.8	206.6	206.6	217.7	221.4
32.5°	1561.3	1458.9	746.2	197.3	178.6	176.8	186.1	191.7	191.7	201.0	204.7
35°	1663.6	1537.1	636.4	174.9	163.8	160.0	163.8	173.1	176.8	184.2	186.1
37.5°	1799.5	1630.1	519.2	161.9	152.6	145.2	145.2	147.0	154.5	161.9	163.8
40°	1972.6	1732.5	403.8	152.6	141.4	134.0	128.4	126.5	124.7	130.3	134.0
42.5°	2190.3	1847.9	301.5	143.3	132.1	121.0	113.5	106.1	96.8	94.9	96.8
45°	2469.4	1989.3	223.3	135.8	126.5	109.8	96.8	83.7	67.0	61.4	63.3
47.5°	2798.8	2136.3	174.9	128.4	122.8	96.8	80.0	57.7	40.9	37.2	39.1
50°	3148.6	2277.7	148.9	119.1	115.4	83.7	57.7	35.4	24.2	24.2	26.1
52.5°	3446.4	2357.8	135.8	111.7	104.2	68.9	37.2	20.5	14.9	14.9	16.7
55°	3734.8	2400.6	126.5	104.2	89.3	48.4	20.5	13.0	9.3	9.3	9.3
57.5°	4032.6	2419.2	115.4	94.9	70.7	29.8	11.2	7.4	5.6	5.6	5.6
60°	4296.8	2383.8	98.6	78.2	46.5	14.9	5.6	5.6	3.7	1.9	1.9
62.5°	4518.3	2316.8	68.9	55.8	27.9	7.4	3.7	1.9	0.0	0.0	0.0
65°	4654.1	2208.9	44.7	37.2	16.7	5.6	1.9	0.0	0.0	0.0	0.0
67.5°	4615.0	2006.1	27.9	24.2	7.4	3.7	1.9	0.0	0.0	0.0	0.0
70°	4164.7	1645.0	20.5	14.9	5.6	1.9	0.0	0.0	0.0	0.0	0.0
72.5°	3001.6	1112.8	14.9	9.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	1444.1	396.4	9.3	7.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	353.6	87.5	5.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	78.2	16.7	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.1	7.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	1.9	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)