

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: P399198

Luminaire Tested: **ARCH-L-PA3-110-727-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399198
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-PA3-110-727-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 485mA 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: 11025 lumens
Efficiency: N/A
Efficacy: 97.6 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

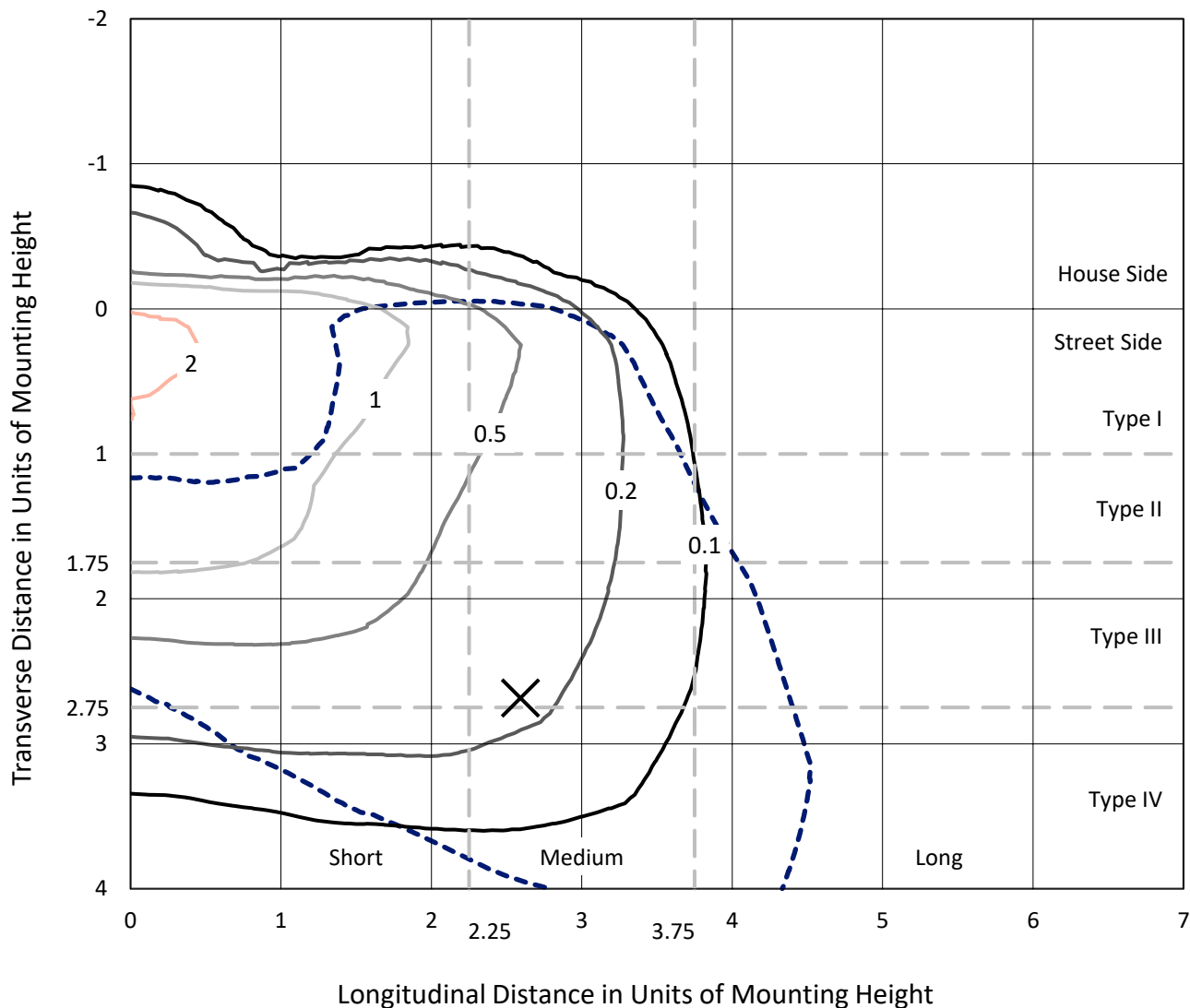
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

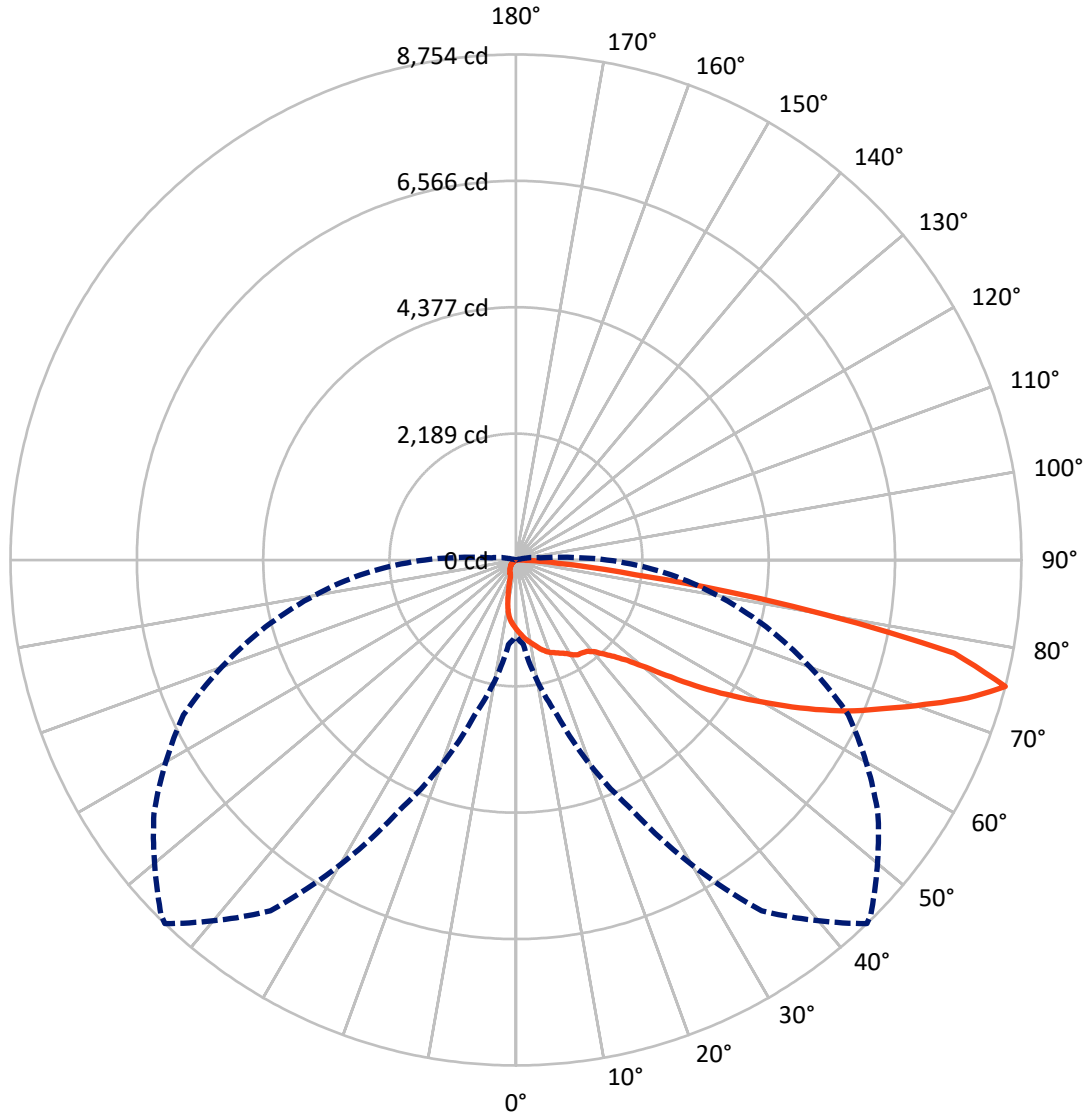
× Max cd
 - - - 1/2 Max cd



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

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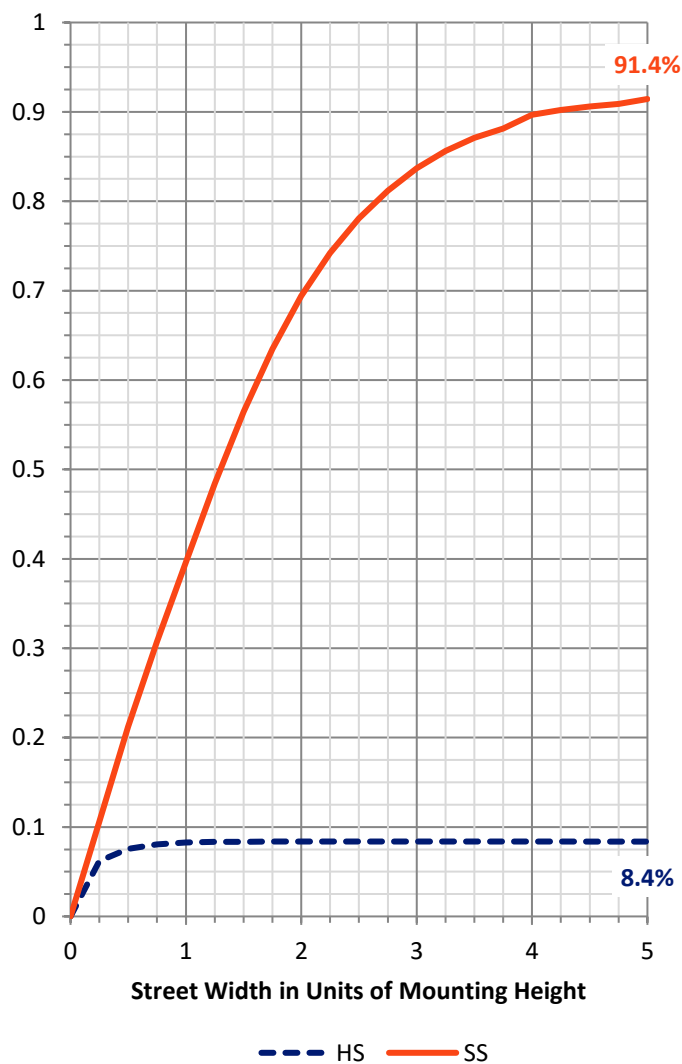
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	929.8	0.0	929.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10095.2	0.0	10095.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	11025.0	0.0	11025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	1.0
10°-20°	317.1	2.9
20°-30°	523.3	4.7
30°-40°	759.6	6.9
40°-50°	1234.7	11.2
50°-60°	2176.7	19.7
60°-70°	3128.4	28.4
70°-80°	2505.1	22.7
80°-90°	266.9	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°	11025.0	100.0
0°-180°	11025.0	100.0

Coefficient of Utilization

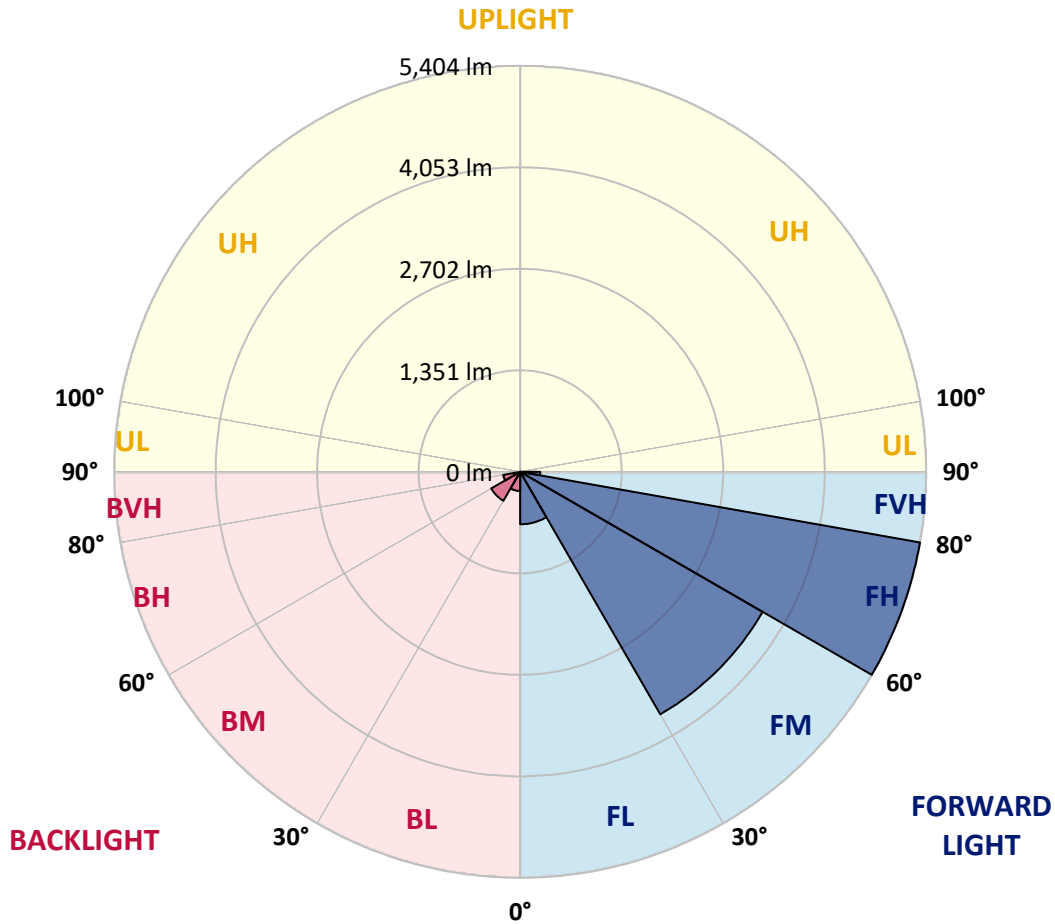


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.2	6.3			
FM (30°-60°)	3726.5	33.8			
FH (60°-80°)	5404.3	49.0			G3/7500
FVH (80°-90°)	266.2	2.4			G3/500
BL (0°-30°)	255.4	2.3	B1/500		
BM (30°-60°)	444.4	4.0	B1/1000		
BH (60°-80°)	229.2	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°	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0
2.5°	1307.8	1305.8	1299.7	1289.5	1279.4	1269.2	1267.1	1250.9	1232.6	1218.3	1206.1
5°	1423.8	1421.7	1411.6	1389.2	1366.8	1340.4	1338.3	1299.7	1265.1	1226.5	1193.9
7.5°	1543.8	1539.7	1521.4	1486.8	1448.2	1407.5	1403.4	1346.5	1295.6	1244.8	1198.0
10°	1637.3	1633.3	1606.8	1566.1	1513.3	1462.4	1456.3	1397.3	1346.5	1281.4	1218.3
12.5°	1728.9	1720.7	1686.1	1641.4	1576.3	1527.5	1521.4	1460.4	1399.4	1332.2	1254.9
15°	1814.3	1804.1	1771.6	1714.6	1645.5	1598.7	1594.6	1529.5	1466.5	1389.2	1303.8
17.5°	1873.3	1869.2	1830.6	1767.5	1700.4	1661.7	1657.7	1590.5	1527.5	1446.1	1354.6
20°	1903.8	1903.8	1867.2	1798.0	1737.0	1710.6	1704.4	1641.4	1580.4	1503.1	1407.5
22.5°	1909.9	1916.0	1887.5	1812.2	1767.5	1745.1	1741.1	1686.1	1627.2	1556.0	1466.5
25°	1922.1	1922.1	1907.8	1826.5	1793.9	1787.8	1785.8	1737.0	1684.1	1612.9	1525.5
27.5°	1936.3	1936.3	1926.1	1846.8	1834.6	1832.6	1830.6	1808.2	1765.5	1682.1	1594.6
30°	1972.9	1975.0	1966.8	1887.5	1879.4	1901.7	1905.8	1893.6	1840.7	1737.0	1665.8
32.5°	2064.5	2046.2	2023.8	1916.0	1930.2	1958.7	1960.7	1936.3	1879.4	1796.0	1751.2
35°	2294.3	2186.5	2084.8	1940.4	1946.5	1975.0	1979.0	1977.0	1942.4	1871.2	1848.9
37.5°	2507.9	2355.3	2210.9	1997.3	1977.0	2007.5	2015.6	2050.2	2023.8	1975.0	1981.1
40°	2631.9	2572.9	2471.2	2154.0	2038.0	2084.8	2092.9	2145.8	2135.6	2115.3	2154.0
42.5°	3014.3	3018.4	2908.5	2387.9	2149.9	2225.1	2235.3	2278.0	2292.3	2302.4	2396.0
45°	3457.7	3471.9	3445.5	2808.9	2361.4	2385.8	2400.1	2457.0	2509.9	2575.0	2745.8
47.5°	3990.6	3978.4	3880.8	3323.5	2729.6	2593.3	2603.5	2713.3	2804.8	2947.2	3191.3
50°	4462.5	4493.0	4307.9	3803.5	3248.2	2920.7	2910.6	3018.4	3183.1	3382.5	3689.6
52.5°	4938.4	4893.7	4643.5	4279.4	3862.5	3366.2	3335.7	3394.7	3626.5	3862.5	4177.7
55°	5064.5	5068.6	4983.2	4800.1	4375.0	3907.2	3856.4	3852.3	4141.1	4301.8	4690.3
57.5°	5312.7	5322.8	5343.2	5379.8	5178.4	4448.2	4395.4	4338.4	4619.1	4712.7	5204.9
60°	5564.9	5577.1	5701.2	5898.4	5764.2	5032.0	4975.0	4840.8	4997.4	5123.5	5745.9
62.5°	5532.3	5617.8	5977.8	6370.3	6354.1	5672.7	5601.5	5278.1	5377.8	5487.6	6242.2
65°	4995.4	5086.9	5896.4	6500.5	6945.9	6305.2	6189.3	5729.6	5735.7	5867.9	6720.2
67.5°	4515.4	4615.0	5387.9	6445.6	7336.5	6872.7	6752.7	6183.2	6087.6	6307.3	6976.4
70°	4238.7	4338.4	4983.2	6274.7	7446.3	7501.2	7397.5	6701.9	6506.6	6708.0	6689.7
72.5°	3317.4	3474.0	4466.6	5949.3	7564.3	8174.4	8093.1	7358.8	6862.5	6289.0	5093.0
75°	1322.1	1466.5	2788.5	4787.9	7415.8	8754.1	8691.1	7653.7	6352.0	4491.0	2607.5
77.5°	398.7	427.1	774.9	2367.5	5436.7	7761.5	7741.2	6435.4	4495.0	2084.8	711.9
80°	132.2	146.4	238.0	652.9	2481.4	4848.9	4940.5	4100.4	2042.1	478.0	144.4
82.5°	54.9	61.0	120.0	262.4	878.7	2088.9	2058.4	1836.7	711.9	297.0	52.9
85°	14.2	18.3	54.9	150.5	321.4	720.0	756.6	616.3	402.7	246.1	16.3
87.5°	0.0	0.0	26.4	61.0	144.4	217.6	227.8	187.1	227.8	185.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0
2.5°	1196.0	1185.8	1167.5	1155.3	1139.0	1134.9	1126.8	1116.6	1114.6	1104.4	1106.5
5°	1175.6	1159.4	1126.8	1104.4	1078.0	1069.9	1055.6	1045.4	1037.3	1023.1	1025.1
7.5°	1171.6	1147.1	1102.4	1059.7	1017.0	986.5	943.8	909.2	880.7	850.2	856.3
10°	1185.8	1155.3	1092.2	1033.2	956.0	858.3	746.5	673.2	636.6	600.0	604.1
12.5°	1214.3	1177.7	1096.3	1006.8	850.2	683.4	528.8	429.2	402.7	386.5	388.5
15°	1257.0	1212.2	1108.5	956.0	707.8	494.2	351.9	309.2	319.3	325.4	325.4
17.5°	1301.7	1250.9	1118.7	864.4	547.1	345.8	286.8	282.7	297.0	311.2	311.2
20°	1356.6	1291.6	1120.7	748.5	394.6	280.7	270.5	270.5	280.7	297.0	297.0
22.5°	1409.5	1336.3	1102.4	616.3	301.0	260.3	260.3	260.3	266.4	282.7	284.8
25°	1472.6	1391.2	1063.8	475.9	258.3	248.1	248.1	250.2	254.2	268.5	270.5
27.5°	1539.7	1448.2	998.7	347.8	235.9	233.9	235.9	238.0	240.0	254.2	258.3
30°	1617.0	1511.2	915.3	260.3	215.6	215.6	221.7	225.8	225.8	238.0	242.0
32.5°	1706.5	1594.6	815.6	215.6	195.3	193.2	203.4	209.5	209.5	219.7	223.7
35°	1818.3	1680.0	695.6	191.2	179.0	174.9	179.0	189.2	193.2	201.4	203.4
37.5°	1966.8	1781.7	567.5	177.0	166.8	158.6	158.6	160.7	168.8	177.0	179.0
40°	2156.0	1893.6	441.4	166.8	154.6	146.4	140.3	138.3	136.3	142.4	146.4
42.5°	2394.0	2019.7	329.5	156.6	144.4	132.2	124.1	115.9	105.8	103.7	105.8
45°	2699.0	2174.3	244.1	148.5	138.3	120.0	105.8	91.5	73.2	67.1	69.2
47.5°	3059.1	2335.0	191.2	140.3	134.2	105.8	87.5	63.1	44.7	40.7	42.7
50°	3441.4	2489.6	162.7	130.2	126.1	91.5	63.1	38.6	26.4	26.4	28.5
52.5°	3766.9	2577.0	148.5	122.0	113.9	75.3	40.7	22.4	16.3	16.3	18.3
55°	4082.1	2623.8	138.3	113.9	97.6	52.9	22.4	14.2	10.2	10.2	10.2
57.5°	4407.6	2644.1	126.1	103.7	77.3	32.5	12.2	8.1	6.1	6.1	6.1
60°	4696.4	2605.5	107.8	85.4	50.8	16.3	6.1	6.1	4.1	2.0	2.0
62.5°	4938.4	2532.3	75.3	61.0	30.5	8.1	4.1	2.0	0.0	0.0	0.0
65°	5086.9	2414.3	48.8	40.7	18.3	6.1	2.0	0.0	0.0	0.0	0.0
67.5°	5044.2	2192.6	30.5	26.4	8.1	4.1	2.0	0.0	0.0	0.0	0.0
70°	4552.0	1798.0	22.4	16.3	6.1	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	3280.8	1216.3	16.3	10.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1578.3	433.2	10.2	8.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	386.5	95.6	6.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	85.4	18.3	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.5	8.1	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°	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)