

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: P1211609

Luminaire Tested: **ARCH4-60-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

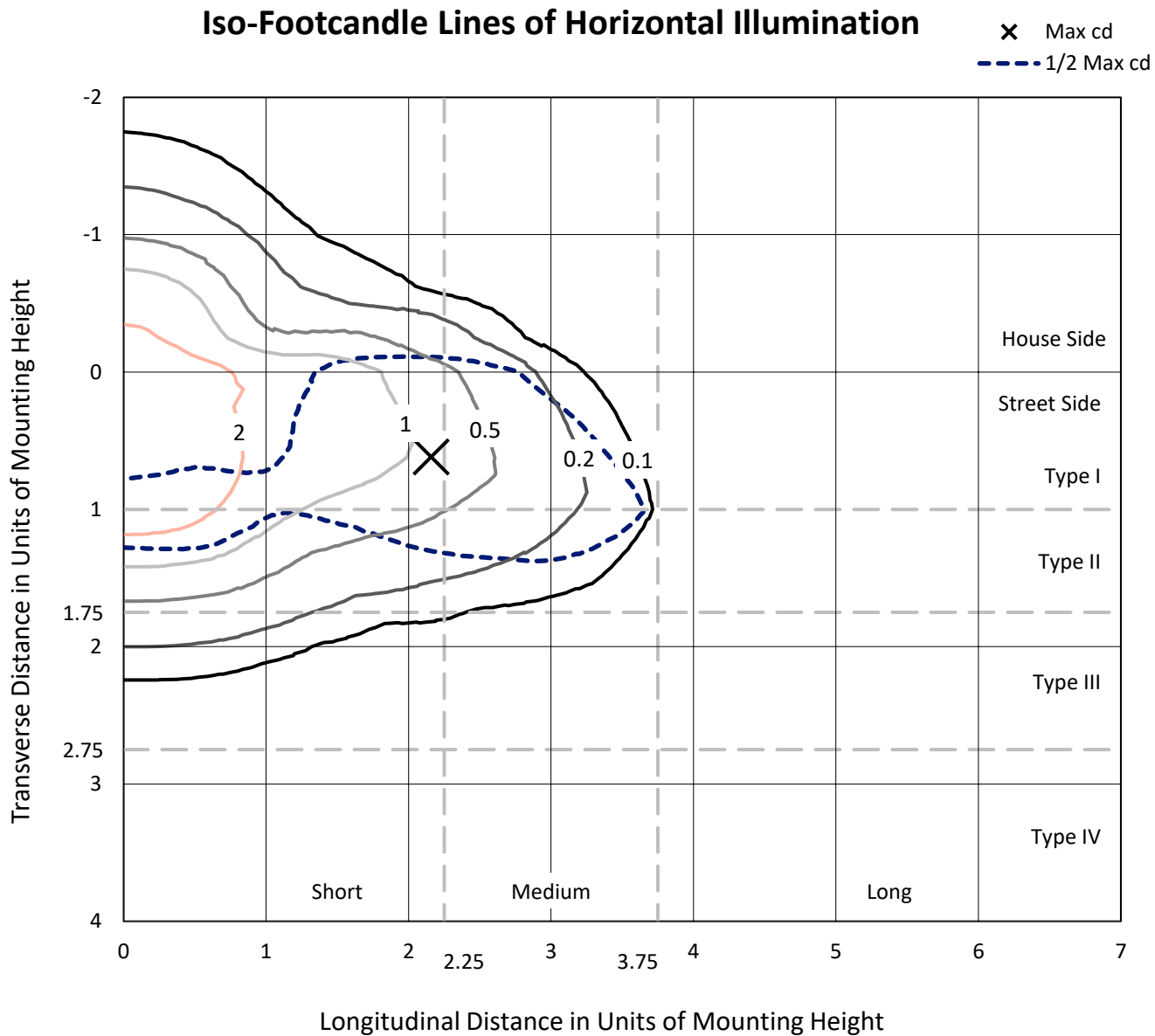
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10362 lumens
Efficiency: N/A
Efficacy: 164.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63
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: 24 FT



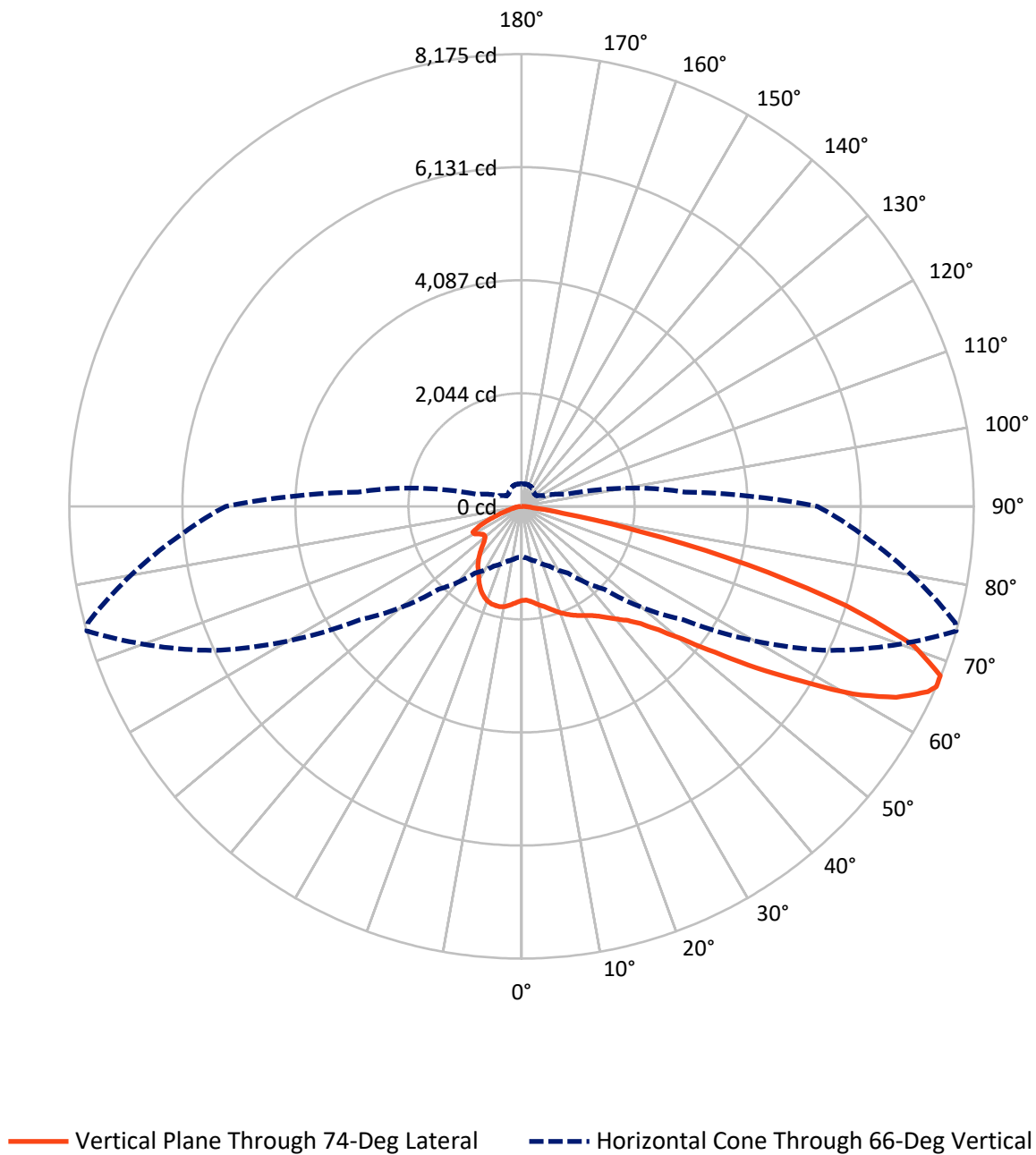
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Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2523.4	0.0	2523.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	7838.6	0.0	7838.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	10362.0	0.0	10362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	1.6
10°-20°	498.3	4.8
20°-30°	935.1	9.0
30°-40°	1438.4	13.9
40°-50°	1934.7	18.7
50°-60°	2288.0	22.1
60°-70°	2116.5	20.4
70°-80°	890.4	8.6
80°-90°	98.5	1.0
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°	10362.0	100.0
0°-180°	10362.0	100.0

Coefficient of Utilization



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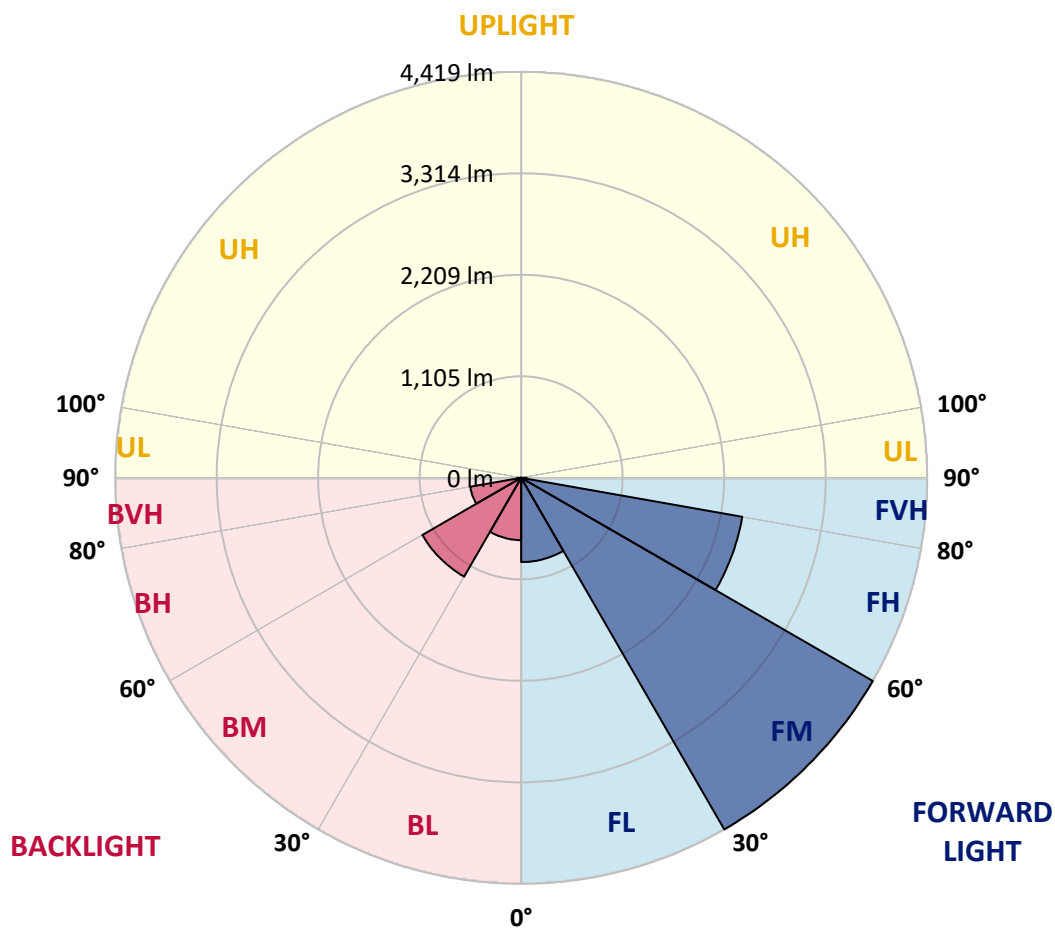
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	917.2	8.9			
FM	(30°-60°)	4418.8	42.6			
FH	(60°-80°)	2443.6	23.6			G2/5000
FVH	(80°-90°)	59.0	0.6			G1/100
BL	(0°-30°)	678.2	6.5	B2/1000		
BM	(30°-60°)	1242.3	12.0	B2/2500		
BH	(60°-80°)	563.3	5.4	B2/1000		G2/1000
BVH	(80°-90°)	39.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7
2.5°	1693.3	1690.7	1696.0	1704.0	1708.0	1701.3	1698.7	1697.3	1697.3	1693.3	1700.0
5°	1613.3	1612.0	1624.0	1638.7	1666.7	1686.7	1713.3	1729.3	1724.0	1716.0	1721.3
7.5°	1509.3	1506.7	1521.3	1549.3	1588.0	1632.0	1697.3	1748.0	1768.0	1765.3	1764.0
10°	1549.3	1546.7	1545.3	1537.3	1550.7	1593.3	1661.3	1750.7	1818.7	1820.0	1821.3
12.5°	1688.0	1694.7	1688.0	1662.7	1633.3	1617.3	1657.3	1757.3	1861.3	1869.3	1902.7
15°	1877.3	1870.7	1857.3	1828.0	1782.7	1734.7	1705.3	1788.0	1922.7	1929.3	2002.7
17.5°	2044.0	2049.3	2041.3	2013.3	1960.0	1897.3	1808.0	1841.3	1988.0	2006.7	2109.3
20°	2225.3	2246.7	2236.0	2201.3	2157.3	2064.0	1952.0	1918.7	2060.0	2073.3	2220.0
22.5°	2434.7	2457.3	2437.3	2404.0	2368.0	2253.3	2109.3	2013.3	2120.0	2148.0	2326.7
25°	2685.3	2706.7	2688.0	2636.0	2590.7	2450.7	2278.7	2120.0	2178.7	2209.3	2413.3
27.5°	2884.0	2900.0	2917.3	2886.7	2817.3	2672.0	2454.7	2230.7	2237.3	2269.3	2493.3
30°	3061.4	3101.4	3116.0	3120.0	3061.4	2898.7	2634.7	2345.3	2288.0	2321.3	2573.3
32.5°	3304.0	3364.0	3340.0	3364.0	3329.4	3112.0	2821.3	2464.0	2353.3	2384.0	2649.3
35°	3658.7	3706.7	3644.0	3625.4	3569.4	3328.0	3001.4	2586.7	2440.0	2473.3	2721.3
37.5°	4040.0	4094.7	4004.0	3929.4	3822.7	3541.4	3156.0	2748.0	2560.0	2586.7	2788.0
40°	4373.4	4418.7	4340.0	4241.4	4062.7	3729.4	3289.4	2861.3	2680.0	2713.3	2865.3
42.5°	4681.4	4710.7	4622.7	4528.0	4289.4	3898.7	3433.4	2981.4	2820.0	2852.0	2928.0
45°	4993.4	5016.0	4893.4	4758.7	4478.7	4053.4	3592.0	3149.4	3025.4	3068.0	3029.4
47.5°	5049.4	5056.0	5034.7	4944.0	4628.0	4201.4	3788.0	3374.7	3338.7	3385.4	3204.0
50°	4661.4	4721.4	4853.4	4942.7	4688.0	4325.4	3984.0	3697.4	3770.7	3830.7	3566.7
52.5°	3908.0	3965.4	4270.7	4609.4	4544.0	4353.4	4194.7	4106.7	4380.0	4452.0	4060.0
55°	3113.4	3164.0	3486.7	3974.7	4078.7	4225.4	4420.0	4629.4	5157.4	5205.4	4601.4
57.5°	2564.0	2592.0	2822.7	3292.0	3458.7	3816.0	4541.4	5250.7	5948.0	6021.4	5072.0
60°	2102.7	2133.3	2305.3	2692.0	2913.3	3230.7	4445.4	5864.0	6892.0	6892.0	5676.0
62.5°	1582.7	1609.3	1769.3	2072.0	2444.0	2734.7	4138.7	6270.7	7604.0	7572.0	6113.4
65°	1086.7	1108.0	1224.0	1425.3	1760.0	2330.7	3720.0	6276.0	8076.0	8033.4	6300.0
66°	912.0	930.7	1029.3	1192.0	1473.3	2114.7	3572.0	6162.7	8174.7	8114.7	6221.4
67.5°	720.0	733.3	798.7	894.7	1080.0	1712.0	3338.7	5841.4	8165.4	8129.4	6021.4
70°	514.7	524.0	572.0	592.0	638.7	990.7	2652.0	5116.0	7510.7	7521.4	5234.7
72.5°	398.7	413.3	442.7	446.7	436.0	526.7	1609.3	4268.0	6144.0	6140.0	3885.4
75°	321.3	329.3	344.0	352.0	349.3	340.0	681.3	3184.0	4229.4	4278.7	2176.0
77.5°	253.3	252.0	265.3	276.0	284.0	266.7	312.0	1866.7	2217.3	2154.7	817.3
80°	186.7	186.7	205.3	209.3	221.3	224.0	208.0	720.0	761.3	692.0	212.0
82.5°	122.7	122.7	142.7	145.3	157.3	174.7	150.7	216.0	210.7	200.0	96.0
85°	66.7	64.0	70.7	80.0	86.7	102.7	90.7	108.0	110.7	109.3	64.0
87.5°	13.3	12.0	18.7	21.3	24.0	32.0	29.3	44.0	61.3	60.0	28.0
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°	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7
2.5°	1709.3	1708.0	1722.7	1740.0	1760.0	1772.0	1777.3	1786.7	1780.0	1782.7	1790.7
5°	1734.7	1738.7	1760.0	1782.7	1792.0	1785.3	1770.7	1765.3	1753.3	1750.7	1748.0
7.5°	1772.0	1778.7	1800.0	1805.3	1777.3	1730.7	1697.3	1678.7	1658.7	1653.3	1650.7
10°	1833.3	1837.3	1842.7	1788.0	1718.7	1656.0	1614.7	1597.3	1584.0	1573.3	1576.0
12.5°	1910.7	1908.0	1866.7	1753.3	1654.7	1590.7	1562.7	1552.0	1542.7	1536.0	1534.7
15°	2008.0	1989.3	1870.7	1705.3	1594.7	1541.3	1521.3	1517.3	1506.7	1506.7	1505.3
17.5°	2106.7	2058.7	1868.0	1654.7	1537.3	1508.0	1496.0	1493.3	1490.7	1489.3	1493.3
20°	2205.3	2120.0	1846.7	1592.0	1497.3	1480.0	1477.3	1478.7	1476.0	1480.0	1477.3
22.5°	2292.0	2160.0	1806.7	1525.3	1469.3	1468.0	1461.3	1464.0	1473.3	1474.7	1478.7
25°	2358.7	2174.7	1748.0	1464.0	1449.3	1446.7	1454.7	1465.3	1473.3	1474.7	1481.3
27.5°	2413.3	2166.7	1674.7	1416.0	1414.7	1429.3	1453.3	1457.3	1458.7	1458.7	1453.3
30°	2454.7	2149.3	1581.3	1362.7	1369.3	1405.3	1428.0	1428.0	1417.3	1414.7	1422.7
32.5°	2464.0	2126.7	1480.0	1308.0	1318.7	1361.3	1389.3	1380.0	1368.0	1368.0	1373.3
35°	2472.0	2096.0	1398.7	1233.3	1249.3	1300.0	1326.7	1308.0	1294.7	1290.7	1289.3
37.5°	2469.3	2084.0	1325.3	1138.7	1160.0	1209.3	1226.7	1209.3	1189.3	1180.0	1192.0
40°	2472.0	2076.0	1233.3	1034.7	1056.0	1085.3	1108.0	1094.7	1076.0	1052.0	1064.0
42.5°	2488.0	2086.7	1132.0	933.3	933.3	949.3	988.0	978.7	933.3	924.0	934.7
45°	2573.3	2144.0	1030.7	832.0	817.3	828.0	868.0	828.0	800.0	800.0	809.3
47.5°	2780.0	2250.7	941.3	742.7	708.0	729.3	740.0	702.7	681.3	676.0	685.3
50°	3201.4	2464.0	888.0	669.3	626.7	642.7	636.0	634.7	613.3	616.0	621.3
52.5°	3841.4	2880.0	872.0	633.3	580.0	584.0	577.3	580.0	576.0	589.3	593.3
55°	4538.7	3318.7	892.0	638.7	548.0	520.0	522.7	536.0	552.0	573.3	577.3
57.5°	5060.0	3538.7	944.0	674.7	508.0	465.3	472.0	497.3	528.0	545.3	554.7
60°	5448.0	3512.0	1020.0	684.0	460.0	416.0	428.0	465.3	492.0	506.7	516.0
62.5°	5574.7	3345.4	1038.7	616.0	397.3	369.3	398.7	437.3	449.3	465.3	472.0
65°	5470.7	3109.4	902.7	500.0	349.3	334.7	377.3	406.7	422.7	430.7	432.0
66°	5348.0	2968.0	829.3	454.7	332.0	324.0	369.3	393.3	409.3	408.0	409.3
67.5°	5078.7	2672.0	710.7	390.7	306.7	308.0	356.0	372.0	377.3	373.3	373.3
70°	4162.7	1881.3	509.3	296.0	269.3	288.0	320.0	324.0	336.0	330.7	330.7
72.5°	2566.7	924.0	341.3	226.7	240.0	269.3	268.0	281.3	309.3	317.3	322.7
75°	1261.3	374.7	225.3	192.0	214.7	225.3	222.7	256.0	296.0	330.7	342.7
77.5°	478.7	186.7	157.3	168.0	173.3	169.3	177.3	232.0	296.0	358.7	370.7
80°	148.0	129.3	124.0	138.7	130.7	124.0	133.3	192.0	250.7	272.0	272.0
82.5°	89.3	101.3	96.0	94.7	88.0	89.3	96.0	137.3	193.3	202.7	202.7
85°	62.7	66.7	54.7	52.0	50.7	49.3	49.3	80.0	114.7	113.3	117.3
87.5°	24.0	26.7	20.0	20.0	18.7	13.3	10.7	13.3	13.3	9.3	6.7
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)