

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: P1210309

Luminaire Tested: **ARCH2-80-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210309
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: ARCH2-80-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11786 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.3
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



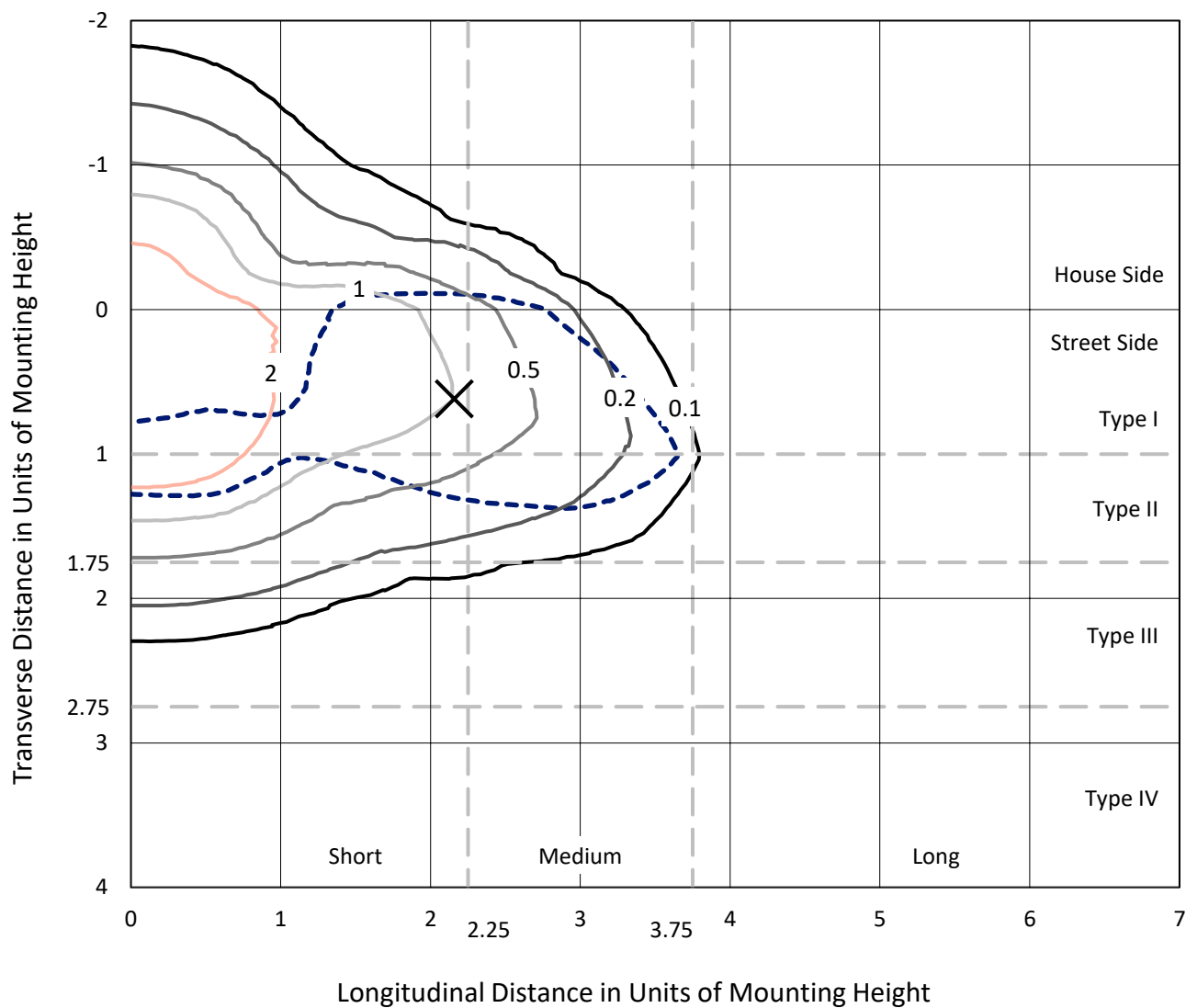
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

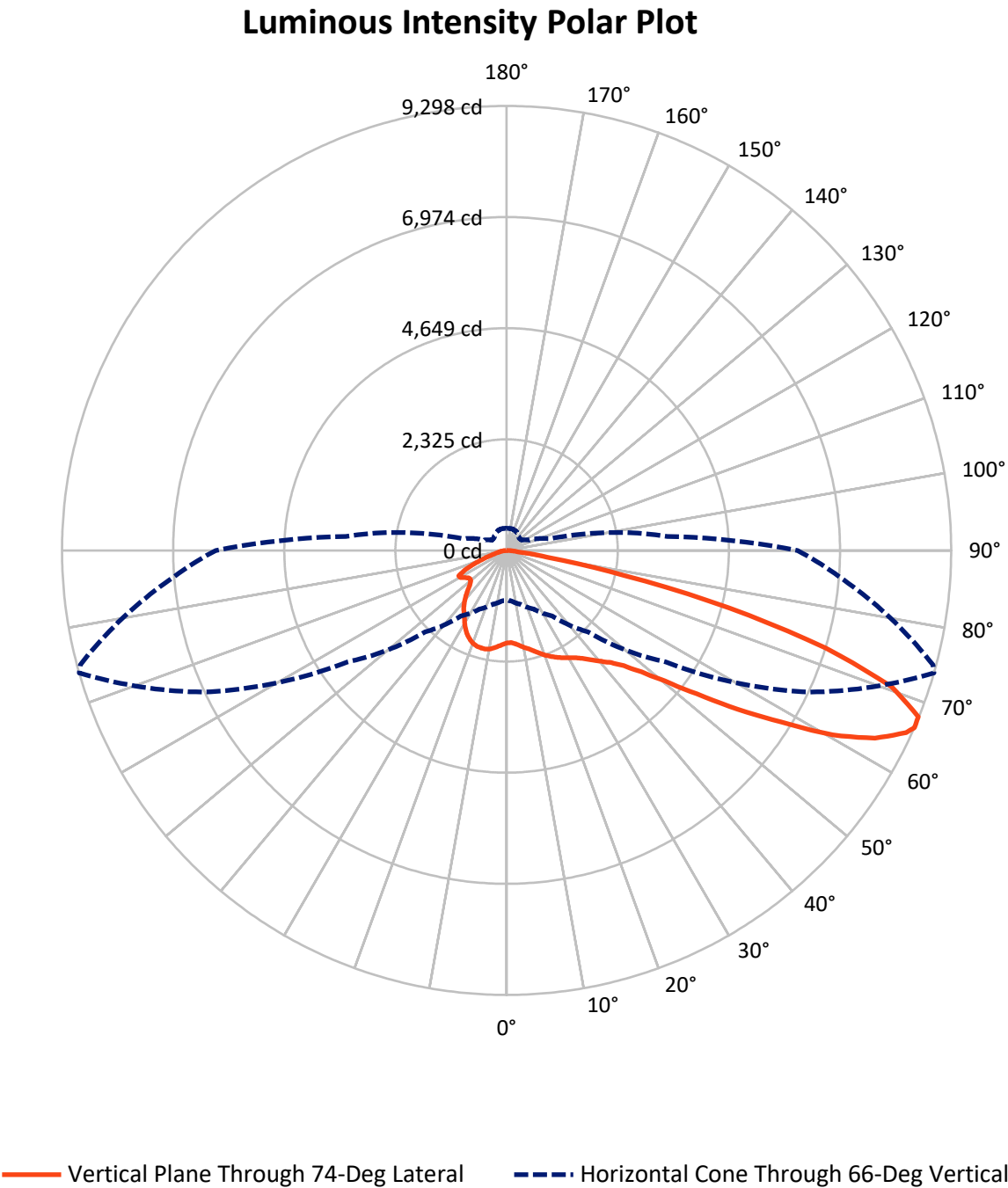
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2870.2	0.0	2870.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	8915.8	0.0	8915.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	11786.0	0.0	11786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	1.6
10°-20°	566.8	4.8
20°-30°	1063.6	9.0
30°-40°	1636.0	13.9
40°-50°	2200.6	18.7
50°-60°	2602.5	22.1
60°-70°	2407.4	20.4
70°-80°	1012.8	8.6
80°-90°	112.1	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°	11786.0	100.0
0°-180°	11786.0	100.0

Coefficient of Utilization



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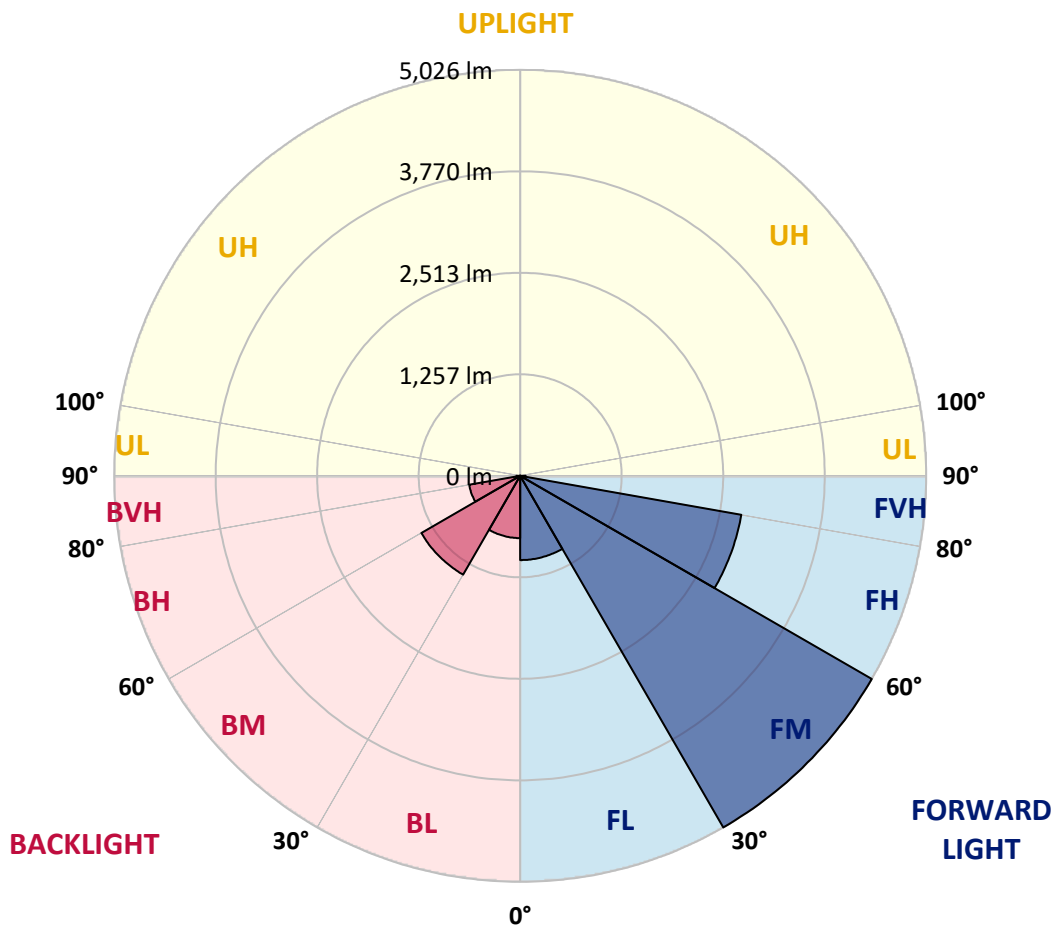
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1043.2	8.9			
FM	(30°-60°)	5026.1	42.6			
FH	(60°-80°)	2779.5	23.6			G2/5000
FVH	(80°-90°)	67.1	0.6			G1/100
BL	(0°-30°)	771.4	6.5	B2/1000		
BM	(30°-60°)	1413.0	12.0	B2/2500		
BH	(60°-80°)	640.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	45.0	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°	1932.1	1932.1	1932.1	1932.1	1932.1	1932.1	1932.1	1932.1	1932.1	1932.1	1932.1
2.5°	1926.1	1923.0	1929.1	1938.2	1942.7	1935.2	1932.1	1930.6	1930.6	1926.1	1933.6
5°	1835.1	1833.5	1847.2	1863.9	1895.7	1918.5	1948.8	1967.0	1960.9	1951.8	1957.9
7.5°	1716.8	1713.7	1730.4	1762.3	1806.2	1856.3	1930.6	1988.2	2011.0	2007.9	2006.4
10°	1762.3	1759.2	1757.7	1748.6	1763.8	1812.3	1889.7	1991.3	2068.6	2070.1	2071.6
12.5°	1920.0	1927.6	1920.0	1891.2	1857.8	1839.6	1885.1	1998.8	2117.1	2126.2	2164.2
15°	2135.3	2127.8	2112.6	2079.2	2027.7	1973.1	1939.7	2033.7	2186.9	2194.5	2277.9
17.5°	2324.9	2331.0	2321.9	2290.0	2229.4	2158.1	2056.5	2094.4	2261.2	2282.4	2399.2
20°	2531.2	2555.4	2543.3	2503.9	2453.8	2347.7	2220.3	2182.4	2343.1	2358.3	2525.1
22.5°	2769.3	2795.0	2772.3	2734.4	2693.4	2563.0	2399.2	2290.0	2411.4	2443.2	2646.4
25°	3054.4	3078.6	3057.4	2998.3	2946.7	2787.5	2591.8	2411.4	2478.1	2513.0	2745.0
27.5°	3280.4	3298.6	3318.3	3283.4	3204.5	3039.2	2792.0	2537.2	2544.8	2581.2	2836.0
30°	3482.1	3527.6	3544.2	3548.8	3482.1	3297.0	2996.8	2667.7	2602.4	2640.4	2927.0
32.5°	3758.1	3826.3	3799.0	3826.3	3786.9	3539.7	3209.1	2802.6	2676.8	2711.6	3013.4
35°	4161.5	4216.1	4144.8	4123.6	4059.9	3785.4	3413.8	2942.2	2775.3	2813.2	3095.3
37.5°	4595.2	4657.4	4554.3	4469.3	4348.0	4028.0	3589.7	3125.7	2911.8	2942.2	3171.2
40°	4974.4	5025.9	4936.5	4824.2	4621.0	4241.9	3741.4	3254.6	3048.3	3086.2	3259.1
42.5°	5324.7	5358.1	5258.0	5150.3	4878.8	4434.5	3905.2	3391.1	3207.6	3244.0	3330.4
45°	5679.6	5705.4	5565.8	5412.7	5094.2	4610.4	4085.7	3582.2	3441.1	3489.6	3445.7
47.5°	5743.3	5750.9	5726.6	5623.5	5264.0	4778.7	4308.6	3838.5	3797.5	3850.6	3644.3
50°	5301.9	5370.2	5520.3	5621.9	5332.3	4919.8	4531.5	4205.5	4288.9	4357.1	4056.8
52.5°	4445.1	4510.3	4857.6	5242.8	5168.5	4951.6	4771.1	4671.1	4982.0	5063.8	4618.0
55°	3541.2	3598.8	3965.8	4520.9	4639.2	4806.0	5027.4	5265.6	5866.1	5920.7	5233.7
57.5°	2916.4	2948.2	3210.6	3744.4	3934.0	4340.4	5165.5	5972.3	6765.4	6848.9	5769.1
60°	2391.6	2426.5	2622.2	3062.0	3313.7	3674.7	5056.3	6669.9	7839.2	7839.2	6456.1
62.5°	1800.2	1830.5	2012.5	2356.8	2779.9	3110.5	4707.5	7132.5	8649.0	8612.6	6953.5
65°	1236.0	1260.3	1392.2	1621.2	2001.9	2651.0	4231.2	7138.5	9185.9	9137.4	7165.8
66°	1037.3	1058.6	1170.8	1355.8	1675.8	2405.3	4062.9	7009.6	9298.1	9229.9	7076.3
67.5°	819.0	834.1	908.4	1017.6	1228.4	1947.3	3797.5	6644.1	9287.5	9246.6	6848.9
70°	585.4	596.0	650.6	673.4	726.4	1126.8	3016.5	5819.1	8542.9	8555.0	5954.1
72.5°	453.5	470.1	503.5	508.1	495.9	599.0	1830.5	4854.6	6988.4	6983.8	4419.3
75°	365.5	374.6	391.3	400.4	397.3	386.7	775.0	3621.6	4810.6	4866.7	2475.1
77.5°	288.1	286.6	301.8	313.9	323.0	303.3	354.9	2123.2	2522.1	2450.8	929.7
80°	212.3	212.3	233.6	238.1	251.8	254.8	236.6	819.0	866.0	787.1	241.1
82.5°	139.5	139.5	162.3	165.3	179.0	198.7	171.4	245.7	239.6	227.5	109.2
85°	75.8	72.8	80.4	91.0	98.6	116.8	103.1	122.8	125.9	124.4	72.8
87.5°	15.2	13.6	21.2	24.3	27.3	36.4	33.4	50.0	69.8	68.2	31.8
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°	1932.1	1932.1	1932.1	1932.1	1932.1	1932.1	1932.1	1932.1	1932.1	1932.1	1932.1
2.5°	1944.2	1942.7	1959.4	1979.1	2001.9	2015.5	2021.6	2032.2	2024.6	2027.7	2036.8
5°	1973.1	1977.6	2001.9	2027.7	2038.3	2030.7	2014.0	2007.9	1994.3	1991.3	1988.2
7.5°	2015.5	2023.1	2047.4	2053.4	2021.6	1968.5	1930.6	1909.4	1886.6	1880.6	1877.5
10°	2085.3	2089.8	2095.9	2033.7	1954.9	1883.6	1836.6	1816.9	1801.7	1789.6	1792.6
12.5°	2173.3	2170.2	2123.2	1994.3	1882.1	1809.3	1777.4	1765.3	1754.7	1747.1	1745.6
15°	2284.0	2262.7	2127.8	1939.7	1813.8	1753.2	1730.4	1725.9	1713.7	1713.7	1712.2
17.5°	2396.2	2341.6	2124.7	1882.1	1748.6	1715.2	1701.6	1698.6	1695.5	1694.0	1698.6
20°	2508.4	2411.4	2100.5	1810.8	1703.1	1683.4	1680.4	1681.9	1678.8	1683.4	1680.4
22.5°	2607.0	2456.9	2055.0	1735.0	1671.3	1669.7	1662.2	1665.2	1675.8	1677.3	1681.9
25°	2682.8	2473.5	1988.2	1665.2	1648.5	1645.5	1654.6	1666.7	1675.8	1677.3	1684.9
27.5°	2745.0	2464.4	1904.8	1610.6	1609.1	1625.8	1653.1	1657.6	1659.1	1659.1	1653.1
30°	2792.0	2444.7	1798.7	1549.9	1557.5	1598.5	1624.3	1624.3	1612.1	1609.1	1618.2
32.5°	2802.6	2418.9	1683.4	1487.8	1499.9	1548.4	1580.3	1569.7	1556.0	1556.0	1562.1
35°	2811.7	2384.1	1590.9	1402.8	1421.0	1478.7	1509.0	1487.8	1472.6	1468.0	1466.5
37.5°	2808.7	2370.4	1507.5	1295.2	1319.4	1375.5	1395.2	1375.5	1352.8	1342.2	1355.8
40°	2811.7	2361.3	1402.8	1176.9	1201.1	1234.5	1260.3	1245.1	1223.9	1196.6	1210.2
42.5°	2829.9	2373.4	1287.6	1061.6	1061.6	1079.8	1123.8	1113.2	1061.6	1051.0	1063.1
45°	2927.0	2438.7	1172.3	946.3	929.7	941.8	987.3	941.8	909.9	909.9	920.6
47.5°	3162.1	2560.0	1070.7	844.7	805.3	829.6	841.7	799.2	775.0	768.9	779.5
50°	3641.3	2802.6	1010.0	761.3	712.8	731.0	723.4	721.9	697.6	700.7	706.7
52.5°	4369.3	3275.8	991.8	720.4	659.7	664.3	656.7	659.7	655.2	670.3	674.9
55°	5162.4	3774.8	1014.6	726.4	623.3	591.5	594.5	609.7	627.9	652.1	656.7
57.5°	5755.4	4025.0	1073.7	767.4	577.8	529.3	536.9	565.7	600.6	620.3	630.9
60°	6196.7	3994.7	1160.2	778.0	523.2	473.2	486.8	529.3	559.6	576.3	586.9
62.5°	6340.8	3805.1	1181.4	700.7	451.9	420.1	453.5	497.4	511.1	529.3	536.9
65°	6222.5	3536.7	1026.7	568.7	397.3	380.7	429.2	462.6	480.8	489.9	491.4
66°	6083.0	3375.9	943.3	517.2	377.6	368.5	420.1	447.4	465.6	464.1	465.6
67.5°	5776.6	3039.2	808.3	444.4	348.8	350.3	404.9	423.1	429.2	424.6	424.6
70°	4734.7	2139.9	579.3	336.7	306.3	327.6	364.0	368.5	382.2	376.1	376.1
72.5°	2919.4	1051.0	388.2	257.8	273.0	306.3	304.8	320.0	351.8	360.9	367.0
75°	1434.7	426.2	256.3	218.4	244.2	256.3	253.3	291.2	336.7	376.1	389.8
77.5°	544.5	212.3	179.0	191.1	197.2	192.6	201.7	263.9	336.7	408.0	421.6
80°	168.3	147.1	141.0	157.7	148.6	141.0	151.7	218.4	285.1	309.4	309.4
82.5°	101.6	115.3	109.2	107.7	100.1	101.6	109.2	156.2	219.9	230.5	230.5
85°	71.3	75.8	62.2	59.1	57.6	56.1	56.1	91.0	130.4	128.9	133.5
87.5°	27.3	30.3	22.7	22.7	21.2	15.2	12.1	15.2	15.2	10.6	7.6
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)