

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: P800021

Luminaire Tested: **ARCH2-70-730-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10008 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.6
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



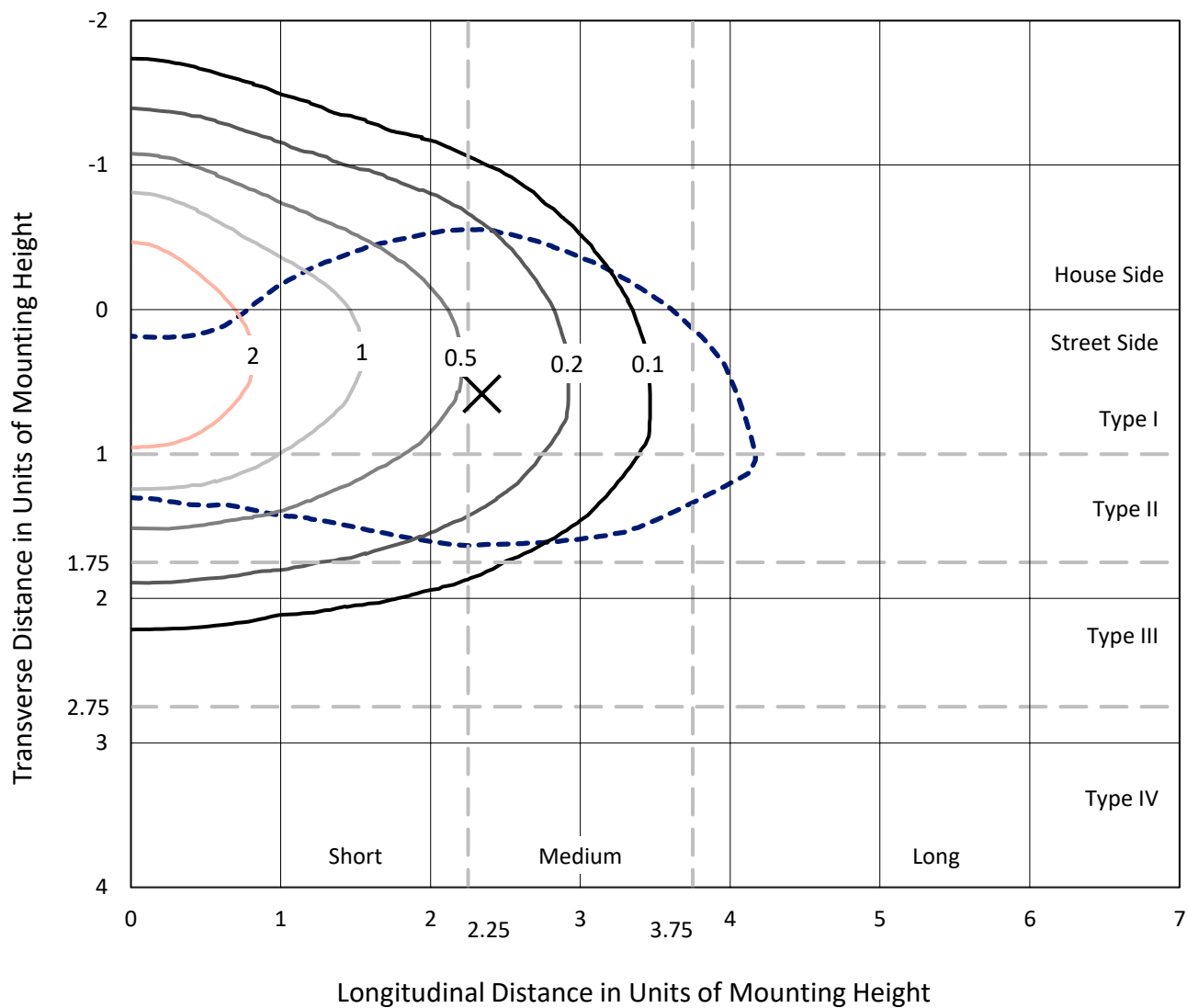
REPORT NUMBER: P800021

CATALOG NUMBER: ARCH2-70-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

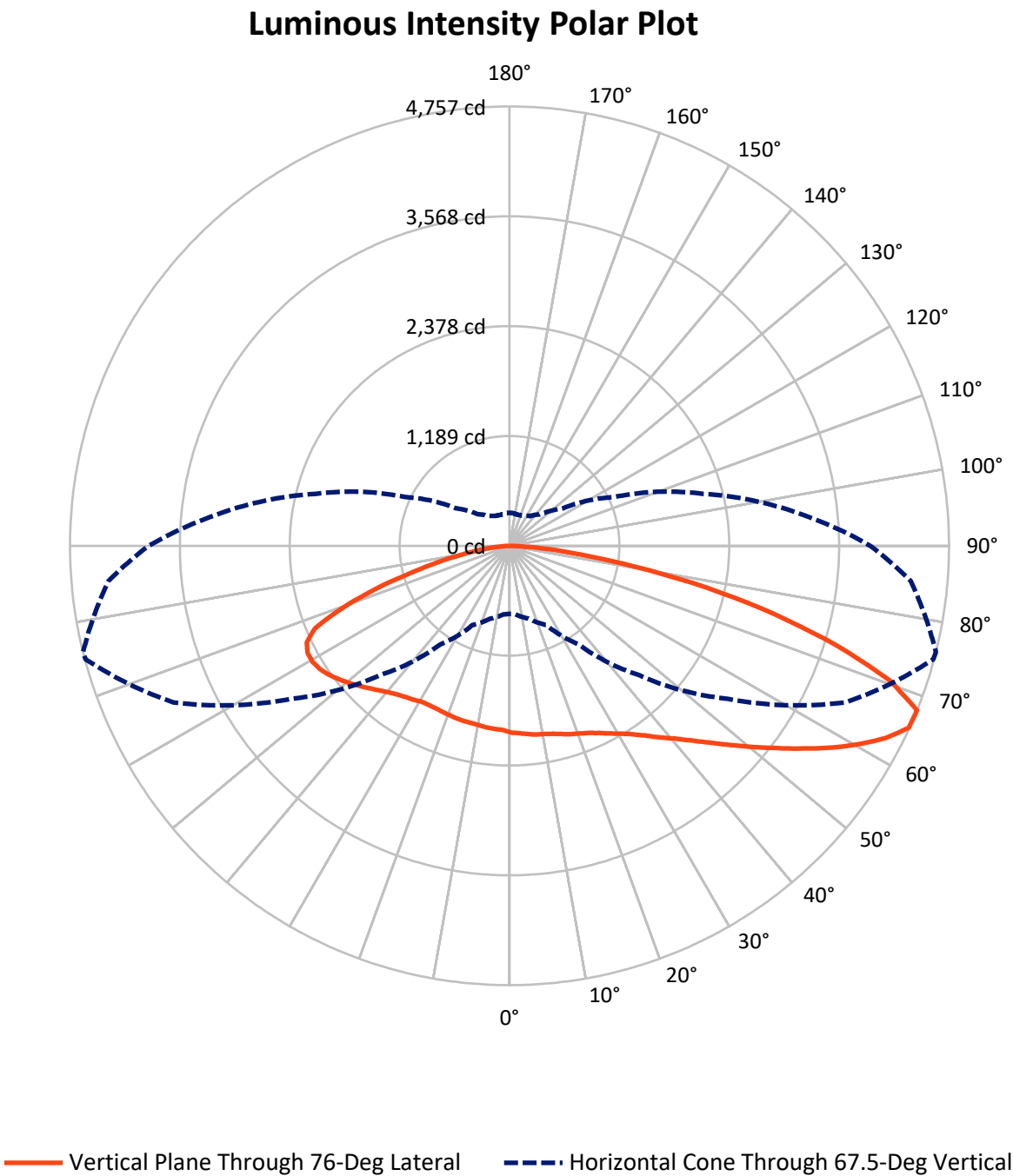
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type II - Medium - N/A

REPORT NUMBER: P800021
CATALOG NUMBER: ARCH2-70-730-U-T2U



REPORT NUMBER: P800021

CATALOG NUMBER: ARCH2-70-730-U-T2U

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3381.8	0.0	3381.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	6626.3	0.0	6626.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	10008.0	0.0	10008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	1.9
10°-20°	596.0	6.0
20°-30°	1012.6	10.1
30°-40°	1440.7	14.4
40°-50°	1819.6	18.2
50°-60°	1970.0	19.7
60°-70°	1832.4	18.3
70°-80°	984.1	9.8
80°-90°	157.7	1.6
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°	10008.0	100.0
0°-180°	10008.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800021

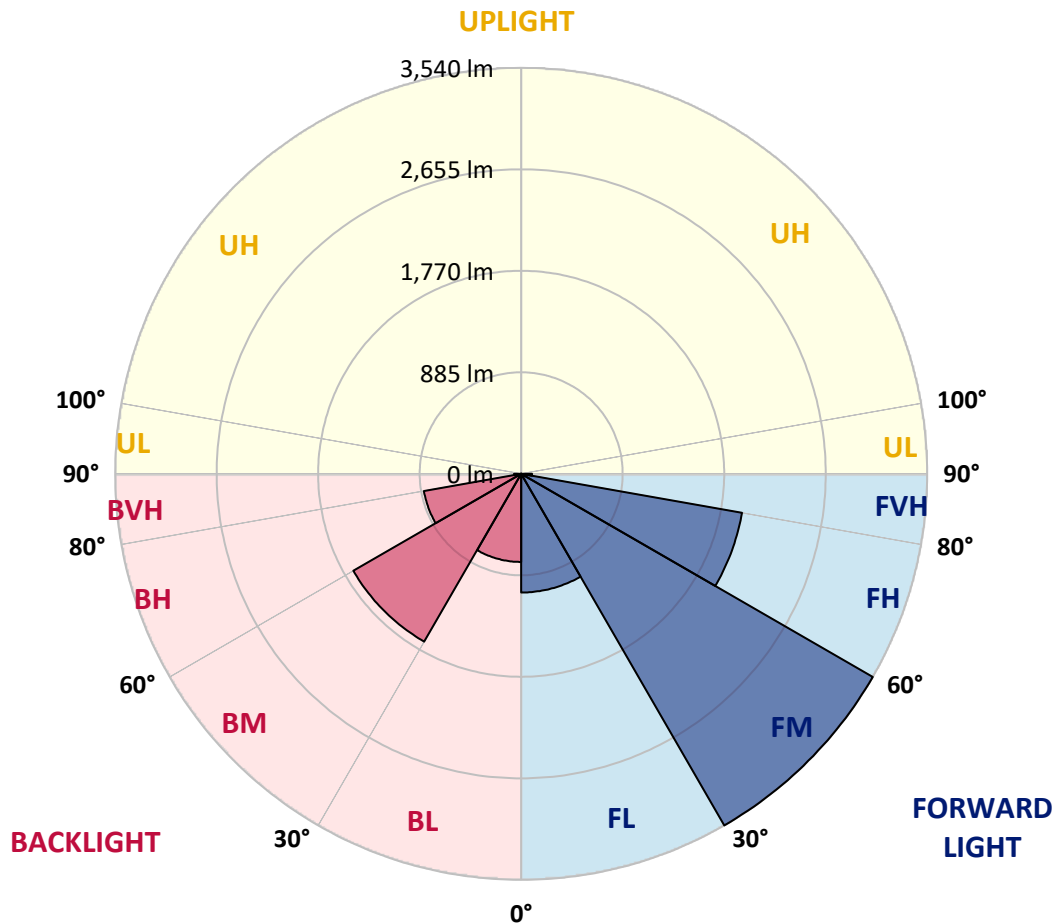
CATALOG NUMBER: ARCH2-70-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.9	10.3			
FM	(30°-60°)	3540.5	35.4			
FH	(60°-80°)	1955.5	19.5			G2/5000
FVH	(80°-90°)	95.4	1.0			G1/100
BL	(0°-30°)	768.5	7.7	B2/1000		
BM	(30°-60°)	1689.9	16.9	B2/2500		
BH	(60°-80°)	861.0	8.6	B2/1000		G2/1000
BVH	(80°-90°)	62.3	0.6			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 Medium



REPORT NUMBER: P800021

CATALOG NUMBER: ARCH2-70-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6
2.5°	2082.9	2079.2	2064.3	2066.2	2066.2	2064.3	2042.0	2032.7	2032.7	2030.9	2010.4
5°	2157.2	2151.7	2134.9	2131.2	2123.8	2114.5	2079.2	2058.8	2049.5	2047.6	2019.7
7.5°	2244.6	2237.1	2216.7	2205.5	2187.0	2162.8	2118.2	2086.6	2064.3	2062.5	2023.5
10°	2331.9	2324.5	2300.3	2279.9	2253.9	2214.8	2157.2	2110.8	2075.5	2071.8	2025.3
12.5°	2435.9	2428.5	2398.8	2372.8	2333.8	2281.7	2205.5	2142.4	2094.1	2088.5	2030.9
15°	2545.6	2534.4	2504.7	2475.0	2426.7	2359.8	2268.7	2185.1	2123.8	2114.5	2047.6
17.5°	2636.6	2621.8	2597.6	2567.9	2514.0	2435.9	2331.9	2227.8	2151.7	2144.2	2064.3
20°	2714.7	2703.5	2677.5	2649.6	2592.0	2506.6	2391.4	2270.6	2177.7	2168.4	2077.3
22.5°	2789.0	2774.1	2759.3	2738.8	2675.6	2580.9	2460.1	2322.6	2211.1	2200.0	2094.1
25°	2874.5	2857.7	2852.2	2841.0	2766.7	2670.1	2543.7	2387.6	2257.6	2244.6	2123.8
27.5°	2980.4	2961.8	2950.6	2950.6	2861.4	2761.1	2632.9	2463.8	2311.5	2300.3	2161.0
30°	3091.8	3069.6	3052.8	3052.8	2952.5	2852.2	2720.2	2540.0	2372.8	2359.8	2209.3
32.5°	3190.3	3168.0	3149.5	3147.6	3043.5	2943.2	2811.3	2623.6	2447.1	2430.4	2268.7
35°	3266.5	3246.1	3229.3	3233.1	3134.6	3036.1	2913.5	2735.1	2540.0	2521.4	2346.8
37.5°	3313.0	3305.5	3296.2	3309.2	3218.2	3125.3	3019.4	2842.9	2645.9	2629.2	2443.4
40°	3337.1	3331.5	3368.7	3385.4	3288.8	3205.2	3125.3	2954.4	2761.1	2742.5	2554.9
42.5°	3372.4	3418.9	3433.7	3430.0	3340.8	3266.5	3221.9	3075.1	2896.8	2880.0	2688.6
45°	3246.1	3234.9	3316.7	3361.3	3344.5	3305.5	3313.0	3220.1	3054.7	3038.0	2842.9
47.5°	3077.0	3062.1	3108.6	3218.2	3283.2	3320.4	3394.7	3370.6	3236.8	3221.9	3023.1
50°	2720.2	2740.7	2913.5	3060.3	3188.5	3316.7	3463.5	3532.2	3437.5	3422.6	3216.3
52.5°	2324.5	2344.9	2525.1	2863.3	3073.3	3288.8	3513.6	3693.9	3654.8	3638.1	3422.6
55°	2036.5	2081.1	2285.4	2530.7	2909.8	3201.5	3543.4	3859.2	3889.0	3874.1	3647.4
57.5°	1750.3	1783.8	1938.0	2155.4	2686.8	3049.1	3541.5	4013.5	4134.2	4119.4	3876.0
60°	1414.0	1456.7	1579.4	1813.5	2389.5	2867.0	3489.5	4134.2	4370.2	4359.1	4097.1
62.5°	1183.6	1196.6	1283.9	1486.5	2006.7	2636.6	3372.4	4199.3	4583.9	4576.5	4295.9
65°	953.2	955.1	1035.0	1204.0	1637.0	2350.5	3173.6	4175.1	4745.5	4749.3	4439.0
67.5°	735.8	745.1	817.6	945.8	1300.7	1978.9	2889.3	4011.6	4747.4	4756.7	4357.2
70°	509.1	516.5	626.2	750.7	1005.2	1577.5	2504.7	3578.7	4357.2	4364.6	3905.7
72.5°	358.6	362.3	479.4	600.2	786.0	1189.2	1889.7	2959.9	3714.3	3719.9	3285.1
75°	267.6	271.3	338.2	455.2	602.0	823.1	1291.4	2266.9	2967.4	2967.4	2593.9
77.5°	189.5	191.4	219.3	314.0	401.3	555.6	776.7	1484.6	2177.7	2181.4	1889.7
80°	128.2	130.1	143.1	211.8	250.8	301.0	421.8	778.5	1373.1	1378.7	1200.3
82.5°	66.9	70.6	79.9	107.8	126.3	167.2	217.4	395.8	760.0	774.8	720.9
85°	26.0	26.0	29.7	35.3	46.5	65.0	100.3	150.5	343.7	354.9	317.7
87.5°	9.3	9.3	11.1	11.1	13.0	14.9	16.7	22.3	39.0	39.0	37.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P800021

CATALOG NUMBER: ARCH2-70-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6
2.5°	2003.0	2003.0	1993.7	1997.4	1995.6	1991.9	1988.1	1993.7	1988.1	1975.1	1973.3
5°	2006.7	2003.0	1988.1	1986.3	1980.7	1973.3	1964.0	1967.7	1958.4	1947.3	1945.4
7.5°	2008.6	2001.2	1980.7	1973.3	1962.1	1947.3	1932.4	1932.4	1919.4	1908.3	1906.4
10°	2004.9	1995.6	1967.7	1952.8	1932.4	1910.1	1889.7	1884.1	1869.2	1856.2	1856.2
12.5°	2006.7	1993.7	1958.4	1934.3	1906.4	1878.5	1852.5	1845.1	1832.1	1819.1	1817.2
15°	2017.9	1999.3	1954.7	1923.1	1882.2	1850.7	1822.8	1817.2	1806.1	1796.8	1796.8
17.5°	2029.0	2004.9	1949.1	1904.5	1854.4	1819.1	1793.0	1793.0	1785.6	1780.0	1780.0
20°	2034.6	2006.7	1938.0	1878.5	1820.9	1783.8	1759.6	1763.3	1761.5	1759.6	1759.6
22.5°	2047.6	2010.4	1928.7	1854.4	1785.6	1746.6	1724.3	1729.9	1728.0	1728.0	1729.9
25°	2068.0	2019.7	1921.3	1832.1	1752.2	1709.4	1685.3	1689.0	1689.0	1689.0	1689.0
27.5°	2095.9	2038.3	1919.4	1811.6	1718.7	1670.4	1640.7	1640.7	1633.3	1635.1	1637.0
30°	2138.7	2073.6	1923.1	1793.0	1683.4	1622.1	1586.8	1581.2	1579.4	1583.1	1584.9
32.5°	2190.7	2121.9	1945.4	1780.0	1646.3	1568.2	1523.6	1521.8	1516.2	1516.2	1516.2
35°	2255.7	2168.4	1965.9	1778.2	1609.1	1510.6	1462.3	1456.7	1443.7	1438.2	1438.2
37.5°	2339.3	2240.8	1990.0	1765.2	1577.5	1454.9	1397.3	1378.7	1363.8	1362.0	1362.0
40°	2441.5	2322.6	2025.3	1750.3	1544.1	1397.3	1321.1	1289.5	1291.4	1298.8	1298.8
42.5°	2562.3	2422.9	2069.9	1742.9	1495.8	1337.8	1231.9	1194.7	1207.8	1215.2	1217.0
45°	2703.5	2541.9	2120.1	1733.6	1451.2	1270.9	1137.1	1090.7	1096.3	1098.1	1100.0
47.5°	2867.0	2673.8	2172.1	1726.2	1401.0	1187.3	1033.1	971.8	969.9	958.8	962.5
50°	3038.0	2813.1	2226.0	1713.2	1339.7	1088.8	923.5	851.0	836.1	819.4	821.3
52.5°	3220.1	2956.2	2276.2	1692.7	1263.5	988.5	819.4	741.4	711.6	693.1	696.8
55°	3420.7	3103.0	2324.5	1661.1	1183.6	888.2	726.5	646.6	609.5	594.6	596.4
57.5°	3604.7	3244.2	2359.8	1622.1	1096.3	797.1	644.8	566.7	542.6	540.7	542.6
60°	3783.1	3363.1	2374.6	1568.2	1007.1	713.5	568.6	509.1	492.4	501.7	503.5
62.5°	3933.6	3439.3	2367.2	1495.8	916.0	633.6	507.3	464.5	453.4	472.0	473.8
65°	4020.9	3463.5	2315.2	1391.7	817.6	555.6	449.7	403.2	397.6	408.8	414.4
67.5°	3905.7	3313.0	2174.0	1248.6	707.9	483.1	393.9	356.8	347.5	356.8	356.8
70°	3461.6	2870.7	1839.5	1021.9	587.2	412.5	341.9	315.9	308.4	315.9	314.0
72.5°	2883.7	2387.6	1449.3	797.1	462.7	347.5	297.3	273.1	265.7	258.3	254.6
75°	2237.1	1813.5	1051.7	585.3	349.3	278.7	249.0	226.7	208.1	215.5	211.8
77.5°	1638.8	1272.8	745.1	405.1	250.8	215.5	195.1	178.4	165.4	180.2	178.4
80°	1055.4	823.1	498.0	271.3	172.8	150.5	143.1	133.8	146.8	191.4	195.1
82.5°	644.8	522.1	297.3	176.5	113.3	100.3	92.9	92.9	150.5	165.4	167.2
85°	288.0	276.9	161.7	91.0	63.2	57.6	52.0	66.9	61.3	44.6	46.5
87.5°	46.5	48.3	35.3	31.6	24.2	24.2	18.6	13.0	9.3	5.6	5.6
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)