

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: P842664

Luminaire Tested: **ARCH4-80-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12339 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.4
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

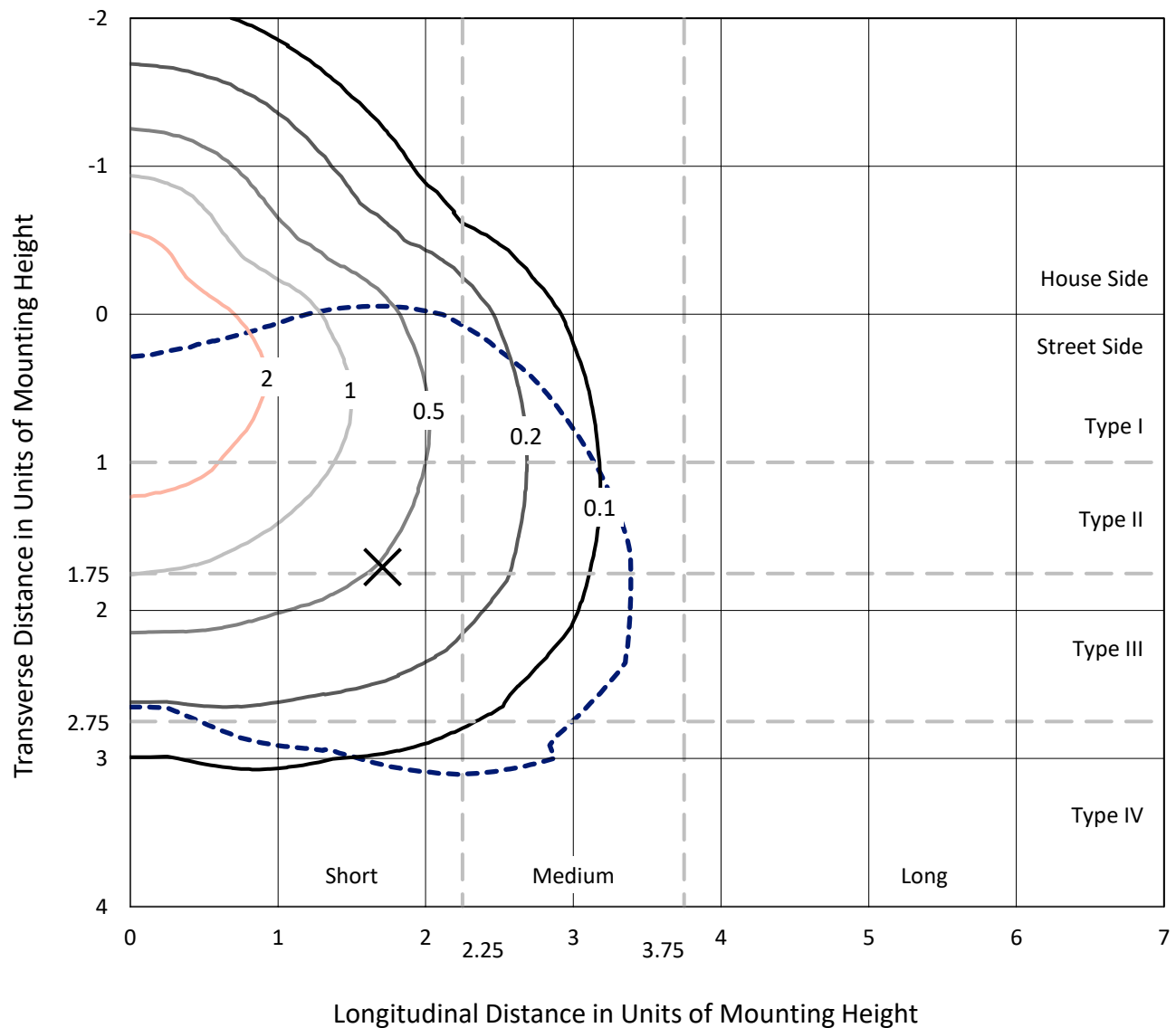


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

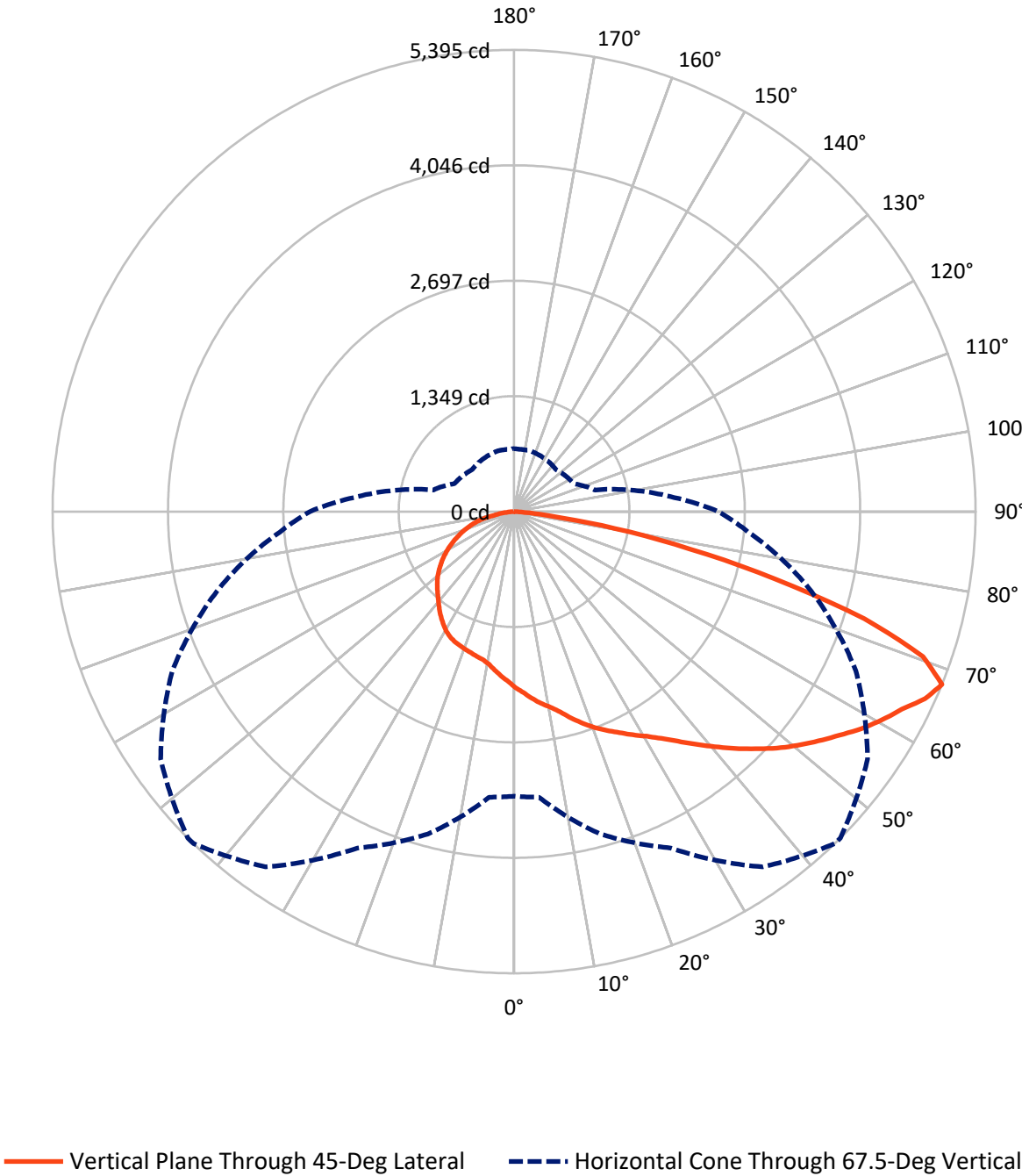


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3296.4	0.0	3296.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	9042.6	0.0	9042.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	12339.0	0.0	12339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	1.6
10°-20°	608.7	4.9
20°-30°	1050.6	8.5
30°-40°	1549.3	12.6
40°-50°	2099.0	17.0
50°-60°	2565.5	20.8
60°-70°	2645.9	21.4
70°-80°	1449.3	11.7
80°-90°	173.7	1.4
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°	12339.0	100.0
0°-180°	12339.0	100.0

Coefficient of Utilization



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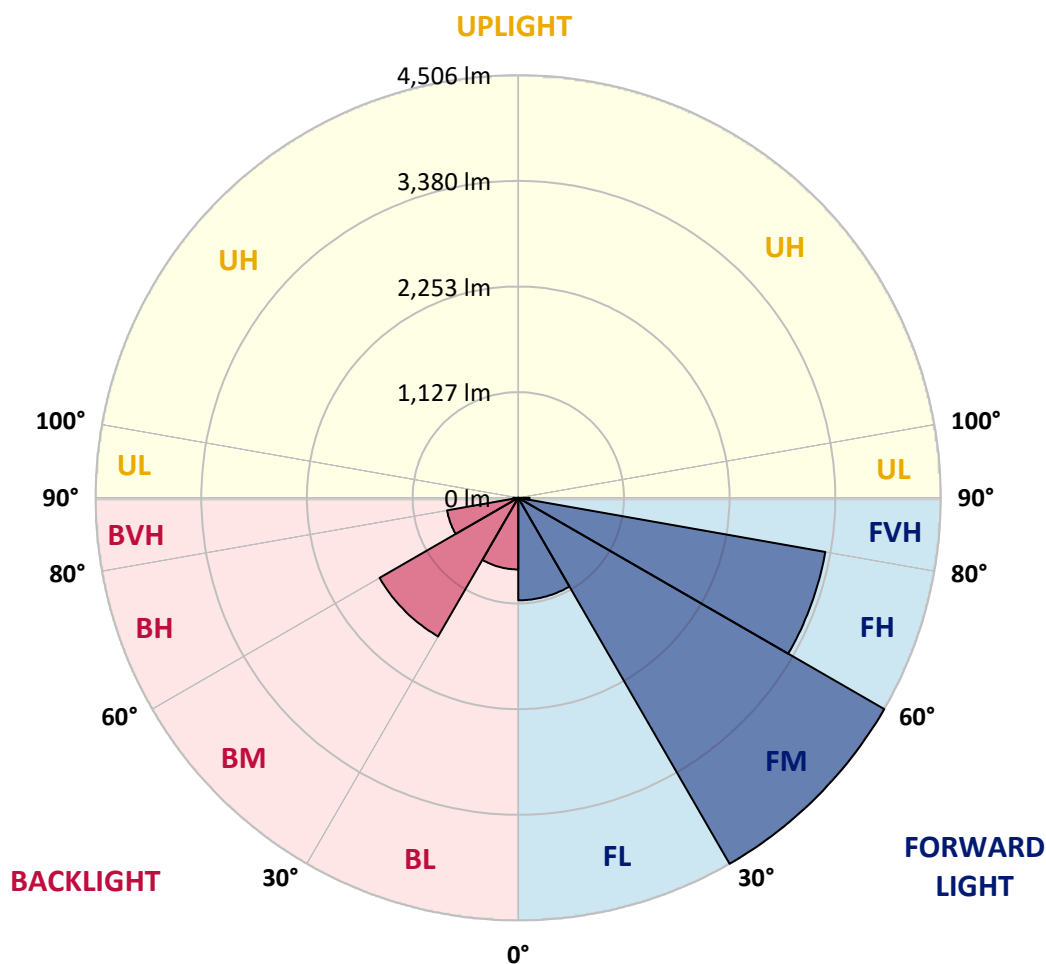
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1092.3	8.9			
FM	(30°-60°)	4506.3	36.5			
FH	(60°-80°)	3324.3	26.9			G2/5000
FVH	(80°-90°)	119.7	1.0			G2/225
BL	(0°-30°)	764.0	6.2	B2/1000		
BM	(30°-60°)	1707.5	13.8	B2/2500		
BH	(60°-80°)	770.9	6.2	B2/1000		G2/1000
BVH	(80°-90°)	54.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2057.9	2057.9	2057.9	2057.9	2057.9	2057.9	2057.9	2057.9	2057.9	2057.9	2057.9
2.5°	2148.0	2146.2	2149.9	2136.8	2119.9	2118.0	2118.0	2106.7	2093.6	2067.3	2046.6
5°	2249.4	2245.7	2247.6	2228.8	2206.2	2195.0	2193.1	2168.7	2138.7	2097.3	2059.8
7.5°	2343.3	2339.6	2337.7	2317.0	2283.2	2264.5	2262.6	2226.9	2191.2	2127.4	2072.9
10°	2431.6	2427.8	2424.1	2395.9	2354.6	2326.4	2322.7	2277.6	2232.5	2153.7	2084.2
12.5°	2544.2	2536.7	2533.0	2499.2	2439.1	2409.0	2403.4	2343.3	2287.0	2191.2	2106.7
15°	2662.5	2656.9	2651.3	2619.3	2551.7	2512.3	2502.9	2427.8	2350.8	2240.0	2140.5
17.5°	2750.8	2745.1	2745.1	2717.0	2655.0	2609.9	2602.4	2512.3	2416.5	2285.1	2166.8
20°	2805.2	2799.6	2805.2	2788.3	2741.4	2703.8	2696.3	2596.8	2482.3	2326.4	2189.3
22.5°	2844.6	2839.0	2848.4	2840.9	2807.1	2784.6	2778.9	2681.3	2549.9	2369.6	2211.9
25°	2914.1	2914.1	2914.1	2901.0	2869.1	2861.5	2861.5	2777.1	2636.2	2425.9	2245.7
27.5°	3053.1	3045.6	3036.2	2998.6	2944.2	2942.3	2953.6	2874.7	2735.7	2499.2	2287.0
30°	3257.7	3254.0	3218.3	3139.4	3047.4	3038.0	3045.6	2979.8	2842.8	2576.1	2333.9
32.5°	3522.5	3509.3	3436.1	3317.8	3186.4	3143.2	3158.2	3088.7	2955.4	2655.0	2379.0
35°	3710.2	3714.0	3661.4	3554.4	3398.6	3284.0	3295.3	3210.8	3077.5	2743.3	2435.3
37.5°	3926.2	3939.3	3860.5	3779.7	3635.1	3439.9	3451.1	3336.6	3199.5	2854.0	2495.4
40°	4224.7	4198.4	4065.1	3969.4	3809.8	3603.2	3612.6	3477.4	3340.4	2959.2	2564.9
42.5°	4474.5	4427.5	4266.0	4144.0	3952.5	3776.0	3785.4	3629.5	3483.1	3075.6	2641.9
45°	4833.1	4703.5	4470.7	4410.6	4098.9	3945.0	3954.3	3791.0	3633.3	3199.5	2724.5
47.5°	5041.5	4835.0	4686.6	4654.7	4260.4	4119.6	4130.8	3961.9	3794.7	3340.4	2810.9
50°	5028.4	4895.0	4851.9	4773.0	4403.1	4282.9	4294.2	4138.4	3958.1	3479.3	2893.5
52.5°	4942.0	4966.4	4943.9	4812.4	4545.8	4440.7	4453.8	4313.0	4125.2	3608.9	2970.5
55°	5075.3	5092.2	5049.0	4876.3	4703.5	4598.4	4613.4	4497.0	4290.4	3723.4	3036.2
57.5°	5234.9	5174.8	5131.6	4988.9	4866.9	4769.2	4786.1	4684.8	4433.1	3815.4	3086.9
60°	5227.4	5101.6	5144.8	4996.4	4977.7	4927.0	4942.0	4838.7	4542.1	3883.0	3107.5
62.5°	4842.5	4774.9	4992.7	4942.0	5067.8	5067.8	5086.6	4932.6	4607.8	3911.2	3096.3
65°	4174.0	4177.8	4560.8	4771.1	5174.8	5261.2	5276.2	4990.8	4570.2	3828.5	2991.1
67.5°	3325.3	3349.7	3899.9	4337.4	5067.8	5392.6	5394.5	5043.4	4408.7	3595.7	2747.0
70°	2433.4	2452.2	3101.9	3633.3	4562.7	5101.6	5071.5	4895.0	4057.6	3190.1	2365.8
72.5°	1644.8	1661.7	2330.2	2790.2	3744.0	4344.9	4279.2	4326.1	3458.6	2621.2	1902.1
75°	1105.9	1126.6	1658.0	1995.9	2754.5	3299.0	3152.6	3276.5	2675.7	1984.7	1387.6
77.5°	696.6	709.8	1053.4	1308.7	1881.4	2245.7	2099.2	2101.1	1541.6	1068.4	745.4
80°	443.1	446.9	638.4	754.8	1089.0	1350.0	1194.2	970.7	694.7	567.1	445.0
82.5°	257.2	251.6	381.2	426.2	518.2	512.6	424.4	401.8	304.2	283.5	227.2
85°	103.3	95.8	167.1	155.8	157.7	167.1	123.9	123.9	99.5	77.0	56.3
87.5°	20.7	20.7	22.5	20.7	20.7	22.5	16.9	16.9	15.0	15.0	15.0
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°	2057.9	2057.9	2057.9	2057.9	2057.9	2057.9	2057.9	2057.9	2057.9	2057.9	2057.9
2.5°	2042.9	2039.1	2029.7	2005.3	1992.2	1984.7	1973.4	1969.7	1967.8	1969.7	1975.3
5°	2048.5	2035.4	2009.1	1969.7	1943.4	1926.5	1907.7	1900.2	1894.6	1894.6	1900.2
7.5°	2052.3	2031.6	1986.6	1928.4	1890.8	1864.5	1842.0	1832.6	1830.7	1836.3	1838.2
10°	2054.2	2024.1	1960.3	1887.0	1838.2	1804.4	1781.9	1776.3	1781.9	1793.2	1795.0
12.5°	2067.3	2026.0	1945.3	1858.9	1800.7	1766.9	1750.0	1750.0	1765.0	1785.7	1787.5
15°	2089.8	2039.1	1937.7	1836.3	1776.3	1746.2	1740.6	1750.0	1772.5	1804.4	1808.2
17.5°	2106.7	2046.6	1920.8	1806.3	1744.3	1725.6	1735.0	1757.5	1789.4	1832.6	1836.3
20°	2118.0	2046.6	1896.4	1770.6	1712.4	1708.7	1735.0	1770.6	1804.4	1855.1	1860.8
22.5°	2129.3	2042.9	1868.3	1727.4	1676.7	1688.0	1736.8	1781.9	1815.7	1870.1	1879.5
25°	2149.9	2048.5	1840.1	1684.3	1639.2	1671.1	1735.0	1789.4	1825.1	1881.4	1896.4
27.5°	2178.1	2061.7	1819.4	1644.8	1601.6	1644.8	1721.8	1787.5	1825.1	1879.5	1896.4
30°	2208.1	2076.7	1795.0	1601.6	1558.5	1607.3	1693.6	1766.9	1810.1	1860.8	1881.4
32.5°	2240.0	2093.6	1774.4	1554.7	1505.9	1556.6	1652.3	1735.0	1781.9	1828.8	1851.4
35°	2283.2	2123.6	1763.1	1517.1	1458.9	1504.0	1599.8	1693.6	1744.3	1787.5	1813.8
37.5°	2335.8	2161.2	1757.5	1479.6	1408.2	1445.8	1543.4	1642.9	1697.4	1733.1	1757.5
40°	2395.9	2208.1	1755.6	1443.9	1357.5	1385.7	1485.2	1584.7	1637.3	1665.5	1686.1
42.5°	2463.5	2260.7	1751.9	1408.2	1306.8	1329.4	1428.9	1526.5	1571.6	1596.0	1614.8
45°	2534.8	2313.3	1744.3	1365.1	1252.4	1278.7	1370.7	1457.1	1504.0	1524.7	1545.3
47.5°	2606.2	2365.8	1729.3	1316.2	1203.6	1228.0	1308.7	1383.8	1421.4	1440.2	1460.8
50°	2675.7	2412.8	1693.6	1259.9	1152.9	1175.4	1237.4	1288.1	1316.2	1331.3	1351.9
52.5°	2737.6	2444.7	1642.9	1194.2	1102.2	1113.5	1154.8	1197.9	1220.5	1222.4	1241.1
55°	2790.2	2461.6	1569.7	1126.6	1047.7	1049.6	1072.1	1105.9	1115.3	1107.8	1121.0
57.5°	2820.2	2452.2	1489.0	1057.1	991.4	983.9	1000.8	1017.7	1019.6	1000.8	1013.9
60°	2827.8	2409.0	1383.8	987.6	935.1	914.4	920.1	916.3	912.5	905.0	916.3
62.5°	2790.2	2317.0	1267.4	920.1	875.0	843.1	841.2	839.3	844.9	846.8	848.7
65°	2653.1	2144.3	1128.5	850.6	811.1	768.0	766.1	788.6	796.1	784.9	788.6
67.5°	2388.4	1879.5	976.4	769.8	730.4	692.9	707.9	721.0	734.2	730.4	734.2
70°	2012.8	1543.4	837.4	679.7	642.2	621.5	638.4	649.7	651.5	647.8	651.5
72.5°	1582.9	1205.5	707.9	587.7	553.9	544.5	565.2	574.6	591.5	599.0	600.8
75°	1143.5	890.0	580.2	488.2	460.0	460.0	478.8	495.7	510.7	501.3	495.7
77.5°	638.4	531.4	416.8	336.1	341.7	368.0	375.5	394.3	409.3	407.5	403.7
80°	386.8	332.3	281.6	217.8	215.9	236.6	285.4	317.3	324.8	307.9	306.1
82.5°	200.9	174.6	150.2	122.0	135.2	157.7	165.2	199.0	219.7	212.2	221.6
85°	50.7	48.8	54.5	56.3	69.5	77.0	84.5	99.5	65.7	31.9	31.9
87.5°	15.0	15.0	18.8	18.8	24.4	30.0	28.2	28.2	15.0	1.9	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)