

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: P836547

Luminaire Tested: **ARCH3-40-730-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7089 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 43.6
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

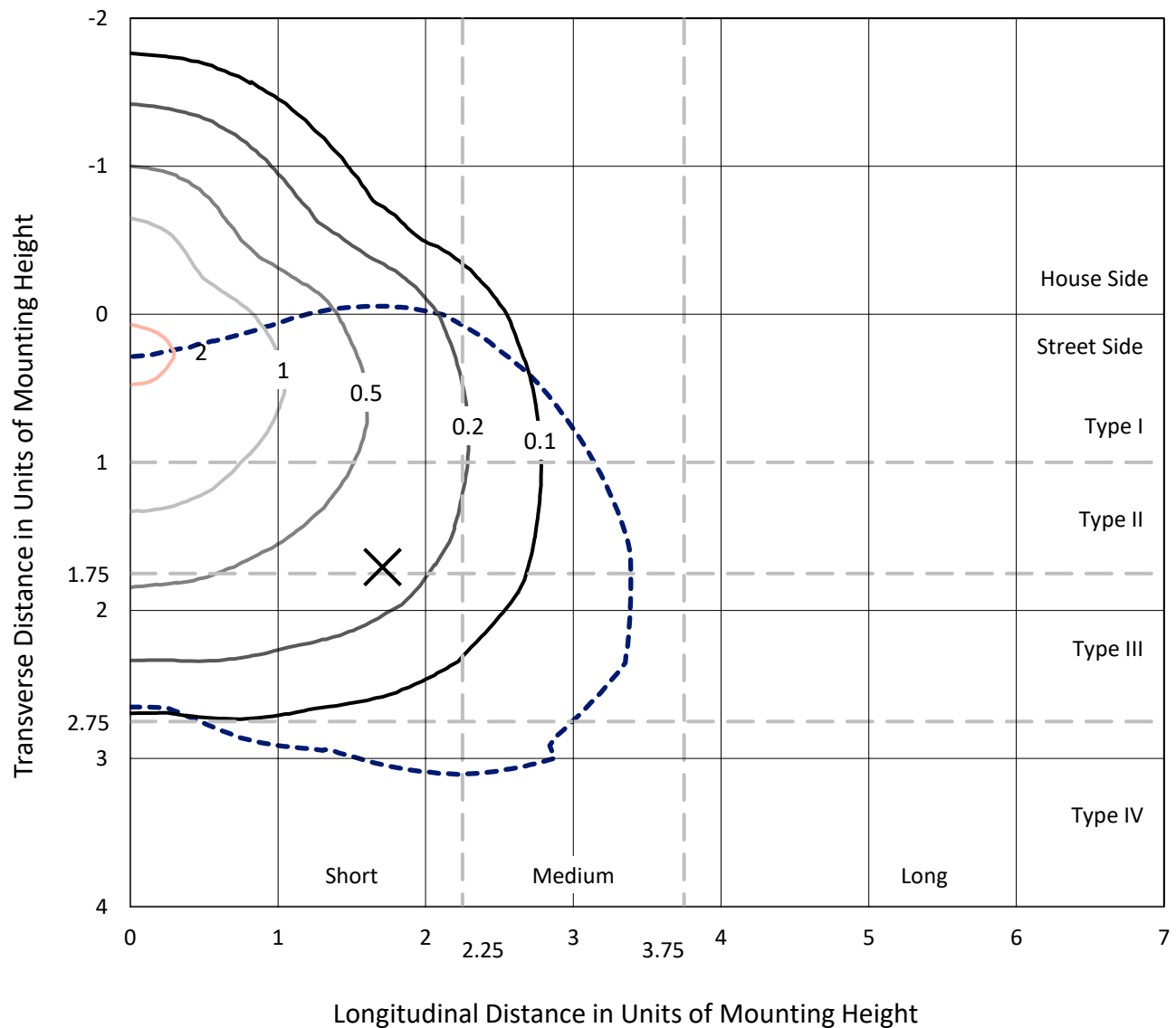


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Iso-Footcandle Lines of Horizontal Illumination

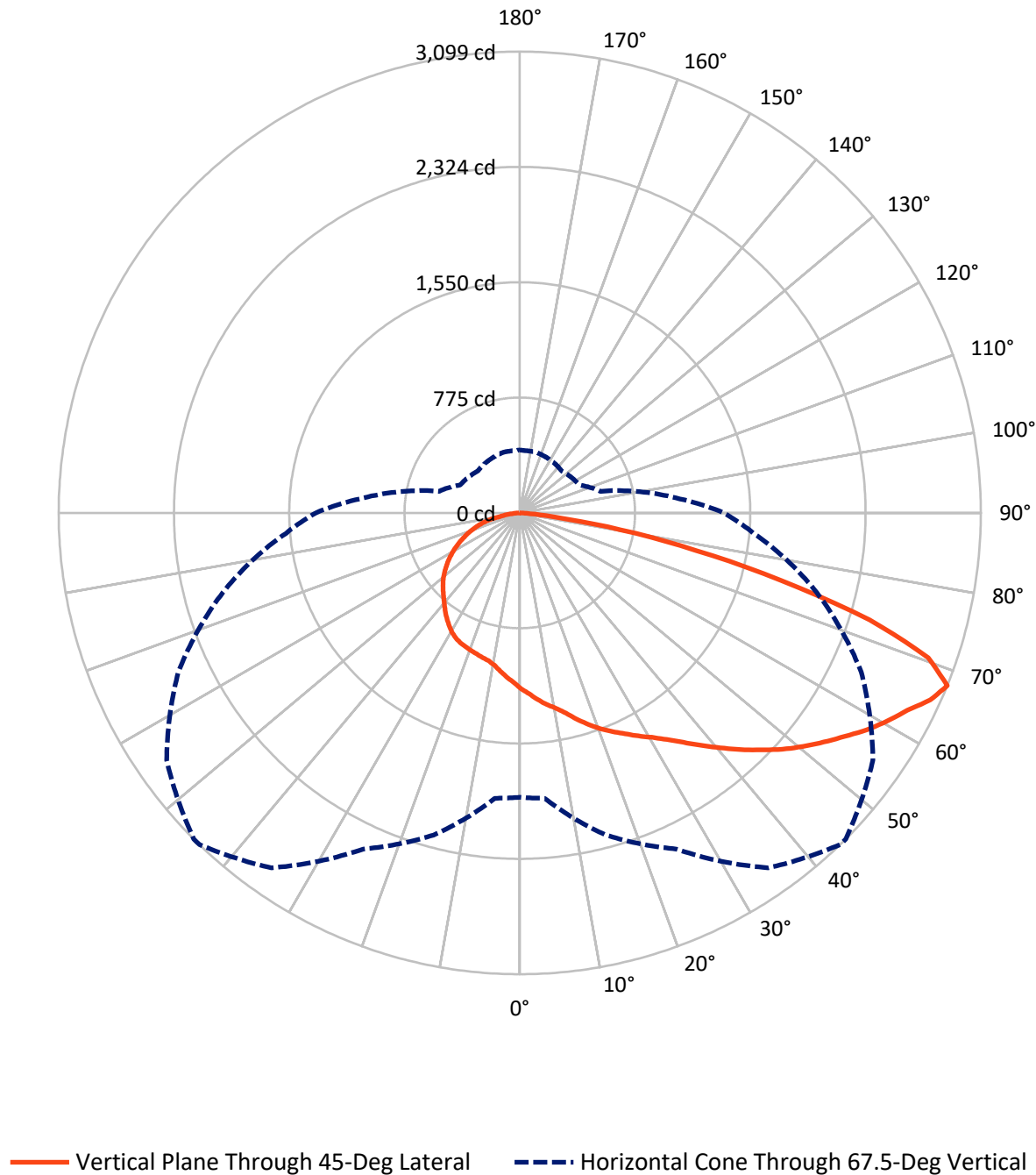
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	1893.8	0.0	1893.8
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	5195.2	0.0	5195.2
	% Fixture	73.3	0.0	73.3
Total	Lumens	7089.0	0.0	7089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	1.6
10°-20°	349.7	4.9
20°-30°	603.6	8.5
30°-40°	890.1	12.6
40°-50°	1205.9	17.0
50°-60°	1473.9	20.8
60°-70°	1520.1	21.4
70°-80°	832.6	11.7
80°-90°	99.8	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°	7089.0	100.0
0°-180°	7089.0	100.0

Coefficient of Utilization



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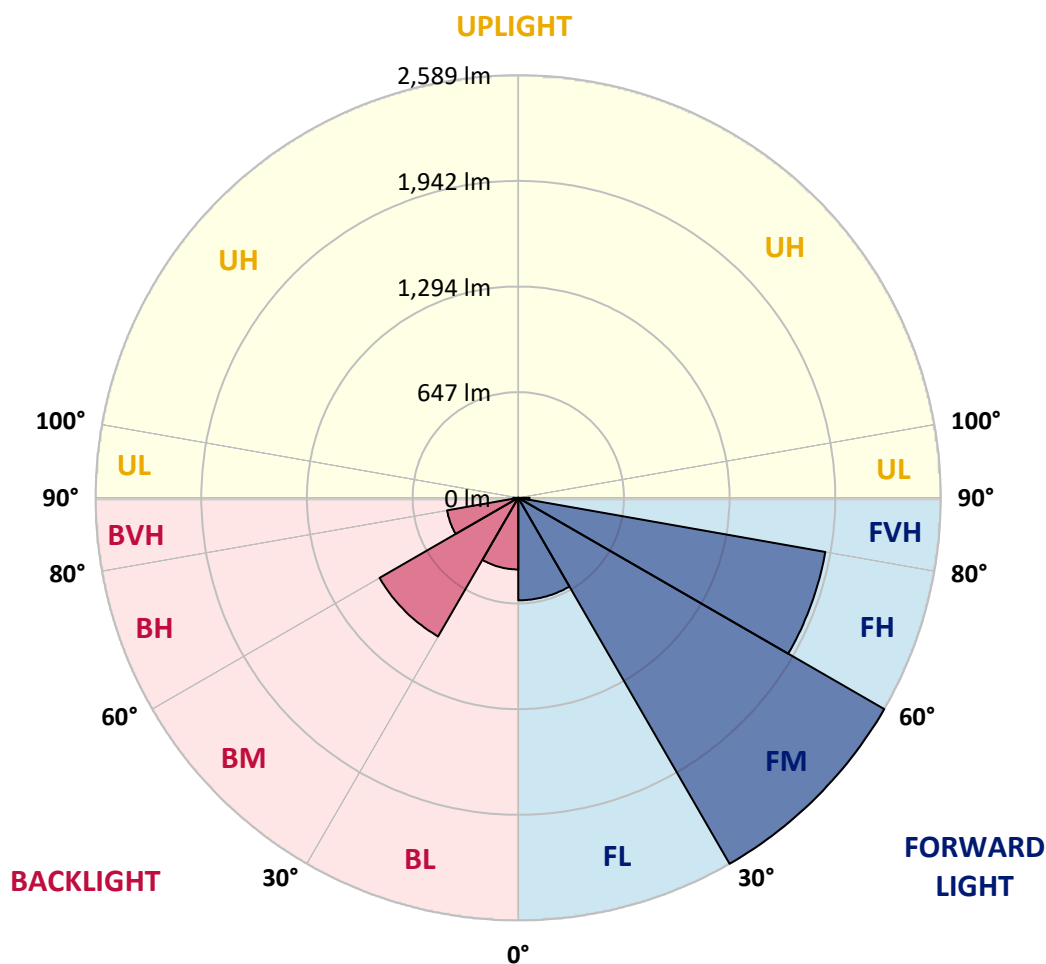
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	627.6	8.9			
FM	(30°-60°)	2589.0	36.5			
FH	(60°-80°)	1909.9	26.9			G2/5000
FVH	(80°-90°)	68.7	1.0			G1/100
BL	(0°-30°)	438.9	6.2	B1/500		
BM	(30°-60°)	981.0	13.8	B1/1000		
BH	(60°-80°)	442.9	6.2	B1/500		G1/500
BVH	(80°-90°)	31.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3
2.5°	1234.1	1233.0	1235.2	1227.6	1217.9	1216.8	1216.8	1210.4	1202.8	1187.7	1175.8
5°	1292.3	1290.2	1291.3	1280.5	1267.5	1261.1	1260.0	1246.0	1228.7	1205.0	1183.4
7.5°	1346.3	1344.1	1343.0	1331.2	1311.8	1301.0	1299.9	1279.4	1258.9	1222.2	1190.9
10°	1397.0	1394.8	1392.7	1376.5	1352.8	1336.6	1334.4	1308.5	1282.6	1237.3	1197.4
12.5°	1461.7	1457.4	1455.2	1435.8	1401.3	1384.0	1380.8	1346.3	1313.9	1258.9	1210.4
15°	1529.7	1526.4	1523.2	1504.9	1466.0	1443.4	1438.0	1394.8	1350.6	1286.9	1229.8
17.5°	1580.4	1577.1	1577.1	1561.0	1525.4	1499.5	1495.1	1443.4	1388.4	1312.8	1244.9
20°	1611.7	1608.4	1611.7	1601.9	1575.0	1553.4	1549.1	1491.9	1426.1	1336.6	1257.8
22.5°	1634.3	1631.1	1636.5	1632.1	1612.7	1599.8	1596.6	1540.5	1464.9	1361.4	1270.8
25°	1674.2	1674.2	1674.2	1666.7	1648.3	1644.0	1644.0	1595.5	1514.6	1393.7	1290.2
27.5°	1754.0	1749.7	1744.3	1722.8	1691.5	1690.4	1696.9	1651.6	1571.7	1435.8	1313.9
30°	1871.6	1869.5	1849.0	1803.7	1750.8	1745.4	1749.7	1712.0	1633.2	1480.0	1340.9
32.5°	2023.7	2016.2	1974.1	1906.2	1830.6	1805.8	1814.5	1774.5	1698.0	1525.4	1366.8
35°	2131.6	2133.8	2103.6	2042.1	1952.5	1886.7	1893.2	1844.7	1768.1	1576.1	1399.1
37.5°	2255.7	2263.2	2217.9	2171.5	2088.5	1976.3	1982.7	1916.9	1838.2	1639.7	1433.7
40°	2427.2	2412.1	2335.5	2280.5	2188.8	2070.1	2075.5	1997.8	1919.1	1700.1	1473.6
42.5°	2570.7	2543.7	2450.9	2380.8	2270.8	2169.4	2174.8	2085.2	2001.1	1767.0	1517.8
45°	2776.7	2702.3	2568.5	2534.0	2354.9	2266.5	2271.8	2178.0	2087.4	1838.2	1565.3
47.5°	2896.4	2777.8	2692.6	2674.2	2447.7	2366.8	2373.3	2276.2	2180.2	1919.1	1614.9
50°	2888.9	2812.3	2787.5	2742.2	2529.7	2460.6	2467.1	2377.6	2274.0	1998.9	1662.4
52.5°	2839.3	2853.3	2840.4	2764.8	2611.7	2551.2	2558.8	2477.9	2370.0	2073.4	1706.6
55°	2915.9	2925.6	2900.8	2801.5	2702.3	2641.9	2650.5	2583.6	2464.9	2139.2	1744.3
57.5°	3007.6	2973.0	2948.2	2866.2	2796.1	2740.0	2749.7	2691.5	2546.9	2192.0	1773.5
60°	3003.2	2931.0	2955.8	2870.6	2859.8	2830.6	2839.3	2779.9	2609.5	2230.9	1785.3
62.5°	2782.1	2743.3	2868.4	2839.3	2911.5	2911.5	2922.3	2833.9	2647.3	2247.0	1778.9
65°	2398.1	2400.2	2620.3	2741.1	2973.0	3022.7	3031.3	2867.3	2625.7	2199.6	1718.4
67.5°	1910.5	1924.5	2240.6	2491.9	2911.5	3098.2	3099.3	2897.5	2532.9	2065.8	1578.2
70°	1398.1	1408.8	1782.1	2087.4	2621.4	2931.0	2913.7	2812.3	2331.2	1832.8	1359.2
72.5°	945.0	954.7	1338.7	1603.0	2151.0	2496.2	2458.5	2485.4	1987.1	1505.9	1092.8
75°	635.4	647.3	952.5	1146.7	1582.5	1895.4	1811.2	1882.4	1537.2	1140.2	797.2
77.5°	400.2	407.8	605.2	751.9	1080.9	1290.2	1206.0	1207.1	885.7	613.8	428.3
80°	254.6	256.7	366.8	433.7	625.7	775.6	686.1	557.7	399.1	325.8	255.7
82.5°	147.8	144.6	219.0	244.9	297.7	294.5	243.8	230.9	174.8	162.9	130.5
85°	59.3	55.0	96.0	89.5	90.6	96.0	71.2	71.2	57.2	44.2	32.4
87.5°	11.9	11.9	12.9	11.9	11.9	12.9	9.7	9.7	8.6	8.6	8.6
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°	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3
2.5°	1173.7	1171.5	1166.1	1152.1	1144.6	1140.2	1133.8	1131.6	1130.5	1131.6	1134.8
5°	1176.9	1169.4	1154.3	1131.6	1116.5	1106.8	1096.0	1091.7	1088.5	1088.5	1091.7
7.5°	1179.1	1167.2	1141.3	1107.9	1086.3	1071.2	1058.3	1052.9	1051.8	1055.0	1056.1
10°	1180.2	1162.9	1126.2	1084.1	1056.1	1036.7	1023.7	1020.5	1023.7	1030.2	1031.3
12.5°	1187.7	1164.0	1117.6	1068.0	1034.5	1015.1	1005.4	1005.4	1014.0	1025.9	1027.0
15°	1200.6	1171.5	1113.3	1055.0	1020.5	1003.2	1000.0	1005.4	1018.3	1036.7	1038.8
17.5°	1210.4	1175.8	1103.6	1037.8	1002.2	991.4	996.8	1009.7	1028.0	1052.9	1055.0
20°	1216.8	1175.8	1089.5	1017.3	983.8	981.7	996.8	1017.3	1036.7	1065.8	1069.0
22.5°	1223.3	1173.7	1073.4	992.5	963.3	969.8	997.8	1023.7	1043.2	1074.4	1079.8
25°	1235.2	1176.9	1057.2	967.6	941.7	960.1	996.8	1028.0	1048.5	1080.9	1089.5
27.5°	1251.4	1184.5	1045.3	945.0	920.2	945.0	989.2	1027.0	1048.5	1079.8	1089.5
30°	1268.6	1193.1	1031.3	920.2	895.4	923.4	973.0	1015.1	1039.9	1069.0	1080.9
32.5°	1286.9	1202.8	1019.4	893.2	865.2	894.3	949.3	996.8	1023.7	1050.7	1063.6
35°	1311.8	1220.1	1012.9	871.6	838.2	864.1	919.1	973.0	1002.2	1027.0	1042.1
37.5°	1342.0	1241.6	1009.7	850.1	809.1	830.6	886.7	943.9	975.2	995.7	1009.7
40°	1376.5	1268.6	1008.6	829.6	779.9	796.1	853.3	910.5	940.7	956.9	968.7
42.5°	1415.3	1298.8	1006.5	809.1	750.8	763.8	820.9	877.0	902.9	916.9	927.7
45°	1456.3	1329.0	1002.2	784.3	719.5	734.6	787.5	837.1	864.1	875.9	887.8
47.5°	1497.3	1359.2	993.5	756.2	691.5	705.5	751.9	795.0	816.6	827.4	839.3
50°	1537.2	1386.2	973.0	723.8	662.4	675.3	710.9	740.0	756.2	764.8	776.7
52.5°	1572.8	1404.5	943.9	686.1	633.2	639.7	663.4	688.2	701.2	702.3	713.1
55°	1603.0	1414.2	901.8	647.3	601.9	603.0	616.0	635.4	640.8	636.5	644.0
57.5°	1620.3	1408.8	855.4	607.3	569.6	565.3	575.0	584.7	585.8	575.0	582.5
60°	1624.6	1384.0	795.0	567.4	537.2	525.4	528.6	526.4	524.3	520.0	526.4
62.5°	1603.0	1331.2	728.2	528.6	502.7	484.4	483.3	482.2	485.4	486.5	487.6
65°	1524.3	1231.9	648.3	488.7	466.0	441.2	440.1	453.1	457.4	450.9	453.1
67.5°	1372.2	1079.8	561.0	442.3	419.6	398.1	406.7	414.2	421.8	419.6	421.8
70°	1156.4	886.7	481.1	390.5	368.9	357.1	366.8	373.2	374.3	372.2	374.3
72.5°	909.4	692.6	406.7	337.6	318.2	312.8	324.7	330.1	339.8	344.1	345.2
75°	657.0	511.3	333.3	280.5	264.3	264.3	275.1	284.8	293.4	288.0	284.8
77.5°	366.8	305.3	239.5	193.1	196.3	211.4	215.8	226.5	235.2	234.1	231.9
80°	222.2	190.9	161.8	125.1	124.1	135.9	164.0	182.3	186.6	176.9	175.8
82.5°	115.4	100.3	86.3	70.1	77.7	90.6	94.9	114.3	126.2	121.9	127.3
85°	29.1	28.0	31.3	32.4	39.9	44.2	48.5	57.2	37.8	18.3	18.3
87.5°	8.6	8.6	10.8	10.8	14.0	17.3	16.2	16.2	8.6	1.1	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)