

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: P836559

Luminaire Tested: **ARCH3-40-740-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7673 lumens
Efficiency: N/A
Efficacy: 176.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - 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

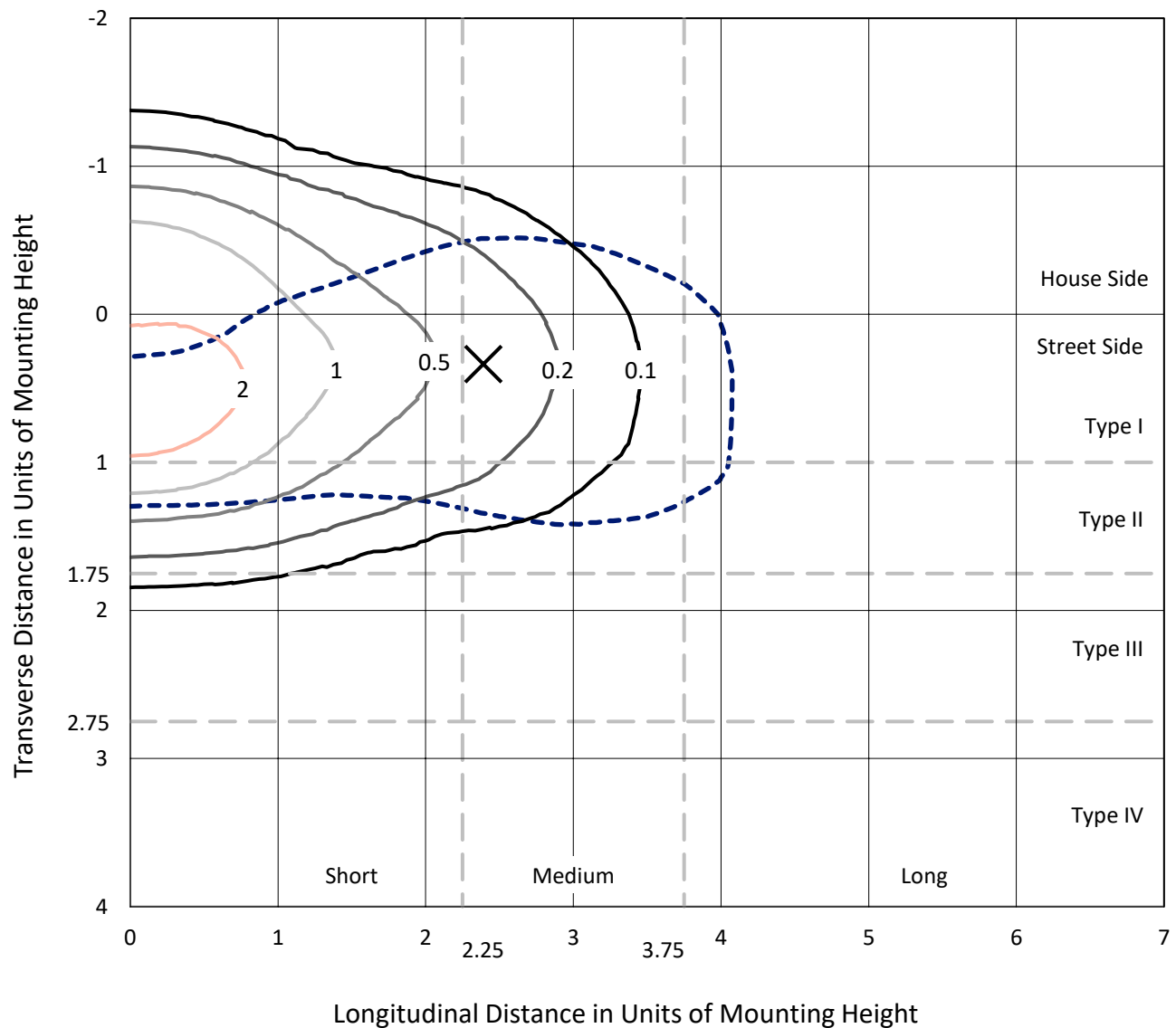


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Iso-Footcandle Lines of Horizontal Illumination

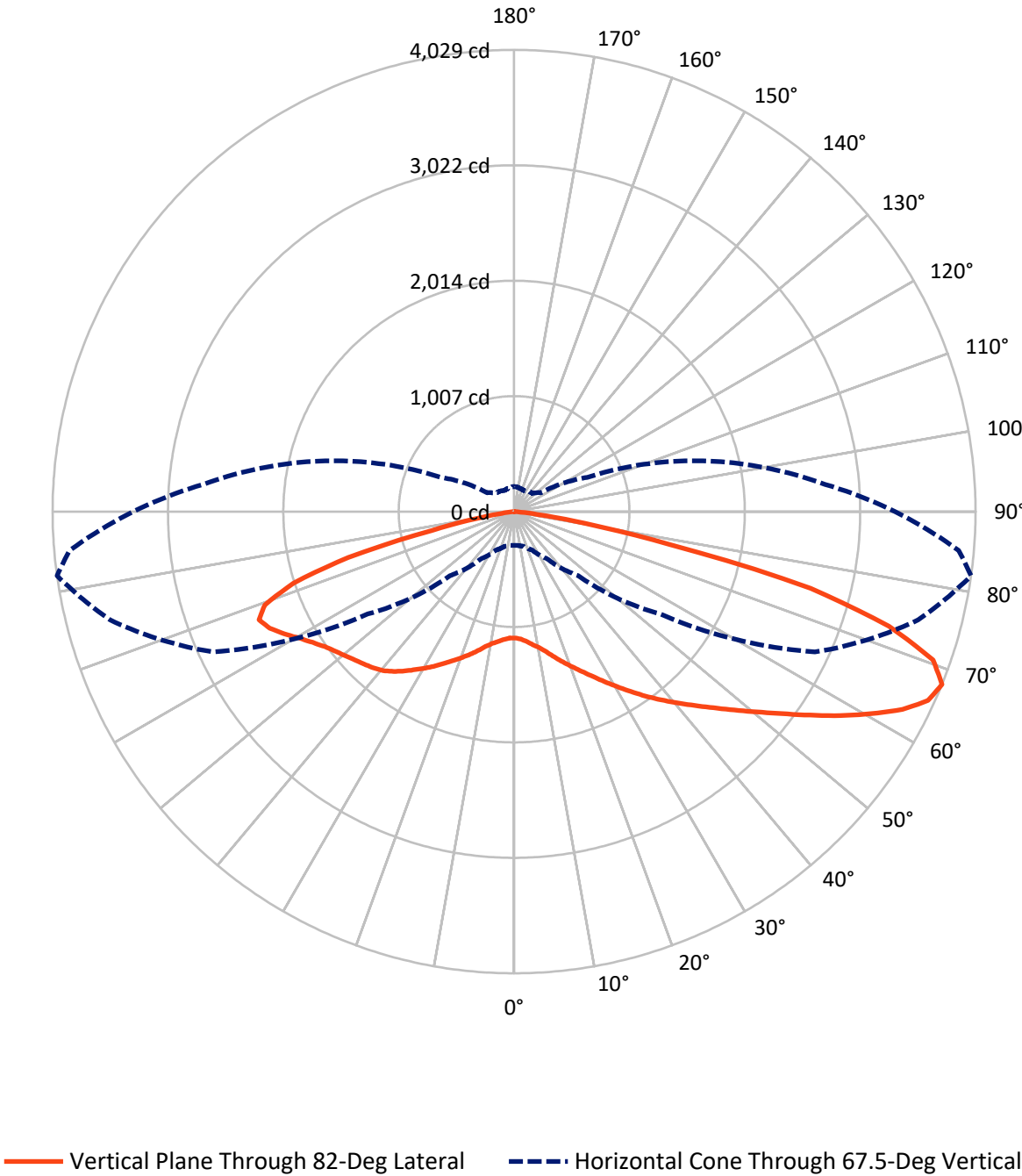
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2336.7	0.0	2336.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5336.3	0.0	5336.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	7673.0	0.0	7673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	1.5
10°-20°	410.6	5.4
20°-30°	825.2	10.8
30°-40°	1296.3	16.9
40°-50°	1579.1	20.6
50°-60°	1492.1	19.4
60°-70°	1232.1	16.1
70°-80°	670.9	8.7
80°-90°	52.8	0.7
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°	7673.0	100.0
0°-180°	7673.0	100.0

Coefficient of Utilization



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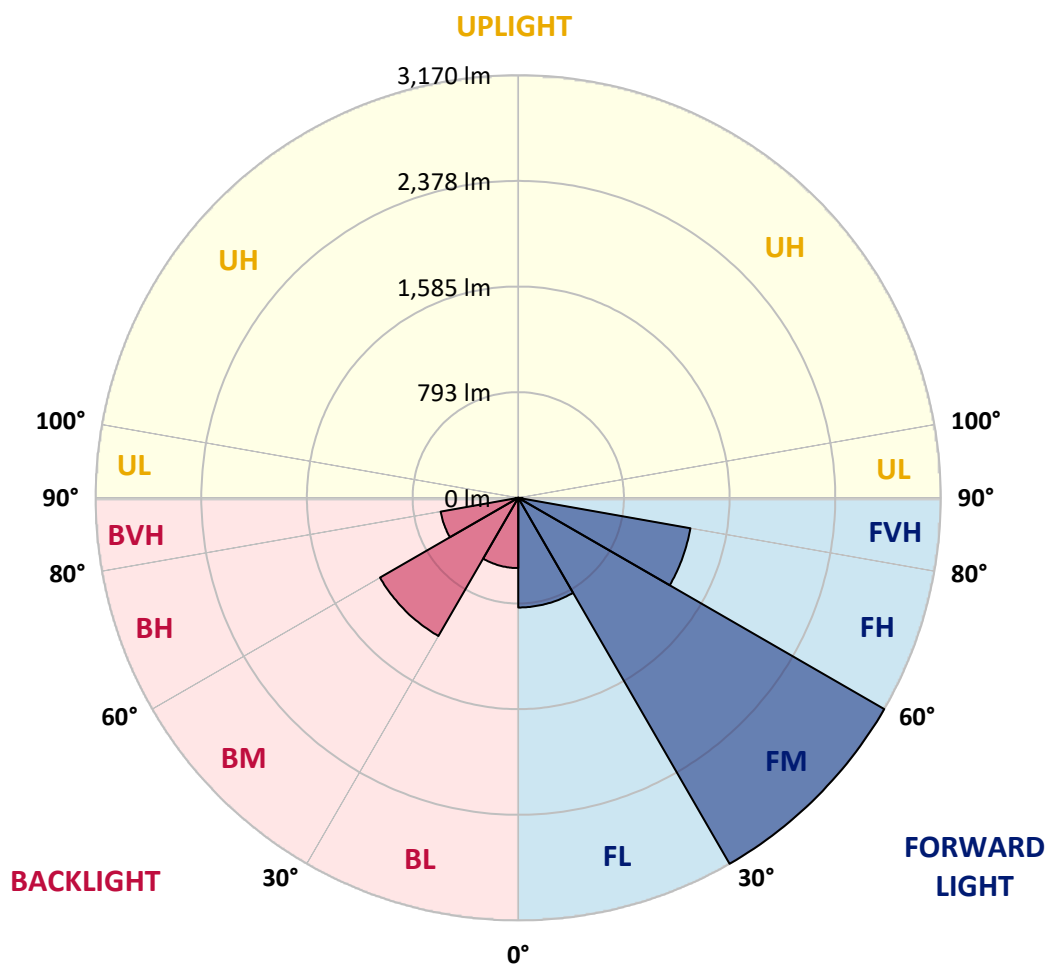
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	822.8	10.7			
FM	(30°-60°)	3170.0	41.3			
FH	(60°-80°)	1311.6	17.1			G1/1800
FVH	(80°-90°)	31.8	0.4			G1/100
BL	(0°-30°)	527.0	6.9	B2/1000		
BM	(30°-60°)	1197.4	15.6	B2/2500		
BH	(60°-80°)	591.4	7.7	B2/1000		G2/1000
BVH	(80°-90°)	21.0	0.3			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1103.0	1103.0	1103.0	1103.0	1103.0	1103.0	1103.0	1103.0	1103.0	1103.0	1103.0
2.5°	1153.1	1153.1	1162.0	1162.0	1154.2	1142.0	1138.6	1125.3	1113.0	1113.0	1114.1
5°	1263.4	1262.3	1269.0	1260.1	1241.1	1216.6	1199.9	1171.0	1146.4	1138.6	1137.5
7.5°	1398.2	1397.1	1400.5	1386.0	1350.3	1310.2	1276.8	1230.0	1189.9	1173.2	1168.7
10°	1548.6	1547.5	1544.2	1519.7	1471.8	1409.4	1359.2	1294.6	1234.5	1207.7	1202.1
12.5°	1721.3	1719.1	1711.3	1675.7	1609.9	1529.7	1457.3	1373.7	1293.5	1256.7	1244.5
15°	1914.1	1910.7	1896.3	1852.8	1764.8	1663.4	1569.8	1462.9	1364.8	1316.9	1300.2
17.5°	2116.8	2116.8	2094.6	2029.9	1931.9	1806.0	1690.1	1554.2	1439.5	1380.4	1360.4
20°	2323.0	2321.8	2294.0	2216.0	2100.1	1955.3	1808.2	1658.9	1516.3	1445.0	1420.5
22.5°	2540.2	2538.0	2503.5	2414.3	2276.2	2112.4	1940.8	1762.6	1601.0	1515.2	1484.0
25°	2789.8	2786.4	2744.1	2634.9	2471.1	2286.2	2090.1	1884.0	1697.9	1593.2	1556.4
27.5°	3054.9	3050.5	3000.4	2873.3	2694.0	2471.1	2255.0	2024.4	1804.9	1680.1	1638.9
30°	3291.1	3287.8	3233.2	3102.9	2896.7	2655.0	2412.1	2164.8	1917.4	1772.6	1721.3
32.5°	3469.4	3469.4	3420.4	3292.3	3078.3	2831.0	2570.3	2297.3	2034.4	1871.7	1811.6
35°	3577.5	3580.8	3538.5	3436.0	3234.3	2997.0	2734.1	2453.3	2159.2	1977.6	1913.0
37.5°	3593.1	3604.2	3579.7	3510.6	3342.4	3135.2	2894.5	2603.7	2288.4	2084.5	2012.1
40°	3520.7	3528.5	3529.6	3502.8	3387.0	3234.3	3036.0	2763.0	2425.5	2197.1	2113.5
42.5°	3375.8	3381.4	3391.4	3399.2	3354.6	3277.8	3144.1	2911.2	2571.4	2311.8	2213.8
45°	3188.6	3187.5	3204.2	3237.7	3235.4	3253.3	3204.2	3046.0	2722.9	2442.2	2325.2
47.5°	2909.0	2903.4	2962.5	3038.2	3076.1	3159.7	3205.4	3151.9	2887.8	2585.9	2452.2
50°	2471.1	2465.6	2594.8	2773.1	2884.5	3011.5	3144.1	3215.4	3060.5	2747.4	2590.4
52.5°	1938.6	1933.0	2096.8	2408.8	2651.6	2836.6	3020.4	3229.9	3224.3	2927.9	2746.3
55°	1441.7	1437.2	1596.5	1934.1	2327.4	2633.8	2868.9	3192.0	3378.0	3135.2	2935.7
57.5°	1016.1	1013.9	1152.0	1431.7	1910.7	2386.5	2722.9	3118.5	3519.5	3360.2	3149.6
60°	713.0	709.7	810.0	1026.1	1445.0	2013.2	2578.1	3020.4	3625.4	3581.9	3376.9
62.5°	480.2	478.0	549.3	729.8	1026.1	1549.8	2358.6	2954.7	3685.5	3804.8	3606.4
65°	364.3	363.2	395.5	494.7	726.4	1113.0	2009.9	2946.9	3693.3	3971.9	3801.4
67.5°	294.1	295.2	313.1	369.9	502.5	791.0	1558.7	2897.9	3652.1	4028.7	3896.1
70°	240.7	240.7	248.5	286.3	371.0	533.7	1088.5	2675.0	3537.4	3880.5	3783.6
72.5°	183.8	184.9	209.5	231.7	279.6	374.3	697.4	2213.8	3266.6	3421.5	3348.0
75°	146.0	144.8	159.3	190.5	217.3	267.4	427.8	1587.6	2779.8	2673.9	2627.1
77.5°	104.7	103.6	114.8	141.5	164.9	189.4	255.1	801.1	1511.9	1389.3	1354.8
80°	71.3	69.1	79.1	98.0	109.2	111.4	124.8	307.5	659.6	621.7	613.9
82.5°	36.8	36.8	42.3	55.7	56.8	57.9	55.7	99.2	218.4	203.9	195.0
85°	14.5	14.5	15.6	18.9	18.9	20.1	20.1	25.6	23.4	22.3	21.2
87.5°	1.1	1.1	2.2	2.2	3.3	3.3	3.3	4.5	5.6	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1103.0	1103.0	1103.0	1103.0	1103.0	1103.0	1103.0	1103.0	1103.0	1103.0	1103.0
2.5°	1111.9	1107.4	1093.0	1089.6	1087.4	1084.0	1085.2	1077.4	1074.0	1075.1	1070.7
5°	1132.0	1124.2	1106.3	1098.5	1096.3	1093.0	1096.3	1090.7	1085.2	1087.4	1085.2
7.5°	1159.8	1148.7	1126.4	1118.6	1117.5	1114.1	1118.6	1114.1	1109.7	1111.9	1107.4
10°	1188.8	1174.3	1149.8	1142.0	1142.0	1140.9	1145.3	1138.6	1134.2	1135.3	1133.1
12.5°	1231.1	1212.2	1185.4	1178.8	1175.4	1178.8	1179.9	1171.0	1163.2	1164.3	1160.9
15°	1282.4	1261.2	1232.2	1222.2	1220.0	1218.9	1214.4	1203.3	1193.2	1192.1	1188.8
17.5°	1338.1	1311.3	1276.8	1266.8	1256.7	1253.4	1242.3	1227.8	1212.2	1212.2	1207.7
20°	1391.5	1361.5	1320.2	1305.8	1291.3	1277.9	1259.0	1235.6	1215.5	1212.2	1207.7
22.5°	1449.5	1413.8	1365.9	1344.8	1319.1	1292.4	1260.1	1228.9	1203.3	1197.7	1194.3
25°	1514.1	1469.5	1412.7	1381.5	1340.3	1299.1	1251.2	1211.1	1181.0	1172.1	1169.8
27.5°	1585.4	1531.9	1462.9	1417.2	1357.0	1292.4	1231.1	1183.2	1146.4	1135.3	1132.0
30°	1657.8	1594.3	1508.5	1441.7	1357.0	1271.2	1194.3	1138.6	1096.3	1080.7	1078.5
32.5°	1730.2	1658.9	1549.8	1455.1	1343.6	1235.6	1146.4	1080.7	1032.8	1013.9	1018.3
35°	1817.1	1730.2	1587.6	1460.6	1321.4	1192.1	1091.8	1015.0	966.0	949.2	952.6
37.5°	1907.4	1801.5	1617.7	1456.2	1290.2	1143.1	1030.6	955.9	894.6	865.7	869.0
40°	1985.4	1866.2	1638.9	1440.6	1250.1	1087.4	970.4	872.4	787.7	759.8	756.5
42.5°	2058.9	1914.1	1650.0	1417.2	1204.4	1022.8	884.6	758.7	674.0	639.5	640.6
45°	2135.8	1960.9	1645.6	1386.0	1147.6	947.0	774.3	647.3	572.7	541.5	542.6
47.5°	2223.8	2011.0	1641.1	1352.6	1078.5	849.0	668.5	549.3	484.6	462.4	460.1
50°	2317.4	2066.7	1635.5	1311.3	1001.6	739.8	563.8	457.9	403.3	388.8	385.5
52.5°	2423.2	2126.9	1632.2	1262.3	909.1	623.9	470.2	377.7	340.9	330.9	329.8
55°	2550.2	2197.1	1636.7	1203.3	797.7	514.7	391.1	325.3	300.8	295.2	294.1
57.5°	2705.1	2287.3	1650.0	1134.2	680.7	420.0	333.1	293.0	277.4	273.0	273.0
60°	2873.3	2389.8	1674.5	1056.2	563.8	346.5	295.2	267.4	260.7	266.3	266.3
62.5°	3054.9	2510.1	1718.0	961.5	454.6	293.0	265.2	246.2	241.8	252.9	254.0
65°	3223.2	2627.1	1745.8	847.9	361.0	254.0	241.8	225.1	227.3	238.4	237.3
67.5°	3326.8	2724.1	1706.8	705.2	286.3	225.1	217.3	202.8	208.3	217.3	218.4
70°	3263.3	2669.5	1514.1	532.6	223.9	196.1	190.5	181.6	186.1	197.2	201.7
72.5°	2952.4	2390.9	1177.6	359.9	180.5	164.9	167.1	162.7	168.2	178.3	188.3
75°	2396.5	1807.1	789.9	230.6	142.6	140.4	143.7	140.4	142.6	152.6	158.2
77.5°	1251.2	881.3	393.3	143.7	105.8	109.2	114.8	115.9	122.6	124.8	127.0
80°	583.8	396.6	163.8	80.2	70.2	76.9	88.0	89.1	91.4	94.7	95.8
82.5°	190.5	119.2	75.8	43.5	40.1	43.5	56.8	68.0	69.1	75.8	75.8
85°	20.1	12.3	16.7	17.8	15.6	18.9	25.6	24.5	11.1	6.7	6.7
87.5°	5.6	4.5	5.6	5.6	4.5	4.5	3.3	1.1	0.0	0.0	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)